ASET NEWS

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY



Vol. 5 Issue: 4 DECEMBER 2020

MISSION

To impart value-based education & promote academics, research, consultancy, co-curricular & extra curricular activities amongst students through extensive theoretical & practical training by qualified & experienced personnel using state-of the-art infrastructure.

VISION

The vision of the Institute is to transform students from all walks of life to knowedgeable, skilled, ethical and moral professionals with competence, commitment and confidence to conquer the professional world.

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to A.P.J Abdul Kalam Technological University

Ahalia Health Heritage & Knowledge Village, Palakkad - 678557 Ph : 04923 - 226666 www.ahalia.ac.in

MESSAGE

The new edition of the newsletter of the Ahalia School of Engineering and Technology is being released after a long gap, due to the COVID pandemic. This publication brings out the activities in the institution and the creativity of the staff and students in the previous months. A lot of latent capacity is embedded in our staff and students, which can be brought to the lime light through these expressions. I appreciate the editorial team in this endeavour and hope for still better releases every month.



DR. P.R. SREEMAHADEVAN PILLAI
Principal, Ahalia School of Engineering & Technology,
Director, Academics, Ahalia Group

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ALUMNI JOINED AHALIA GROUP



Ms. Dhivya K Nair
(2016-20 batch Civil Engineering)



Mr. Dileep P
(2016-20 batch Mechanical Engineering)



Ms. Jiji
(2012-16 batch Electrical and Electronics Engineering)



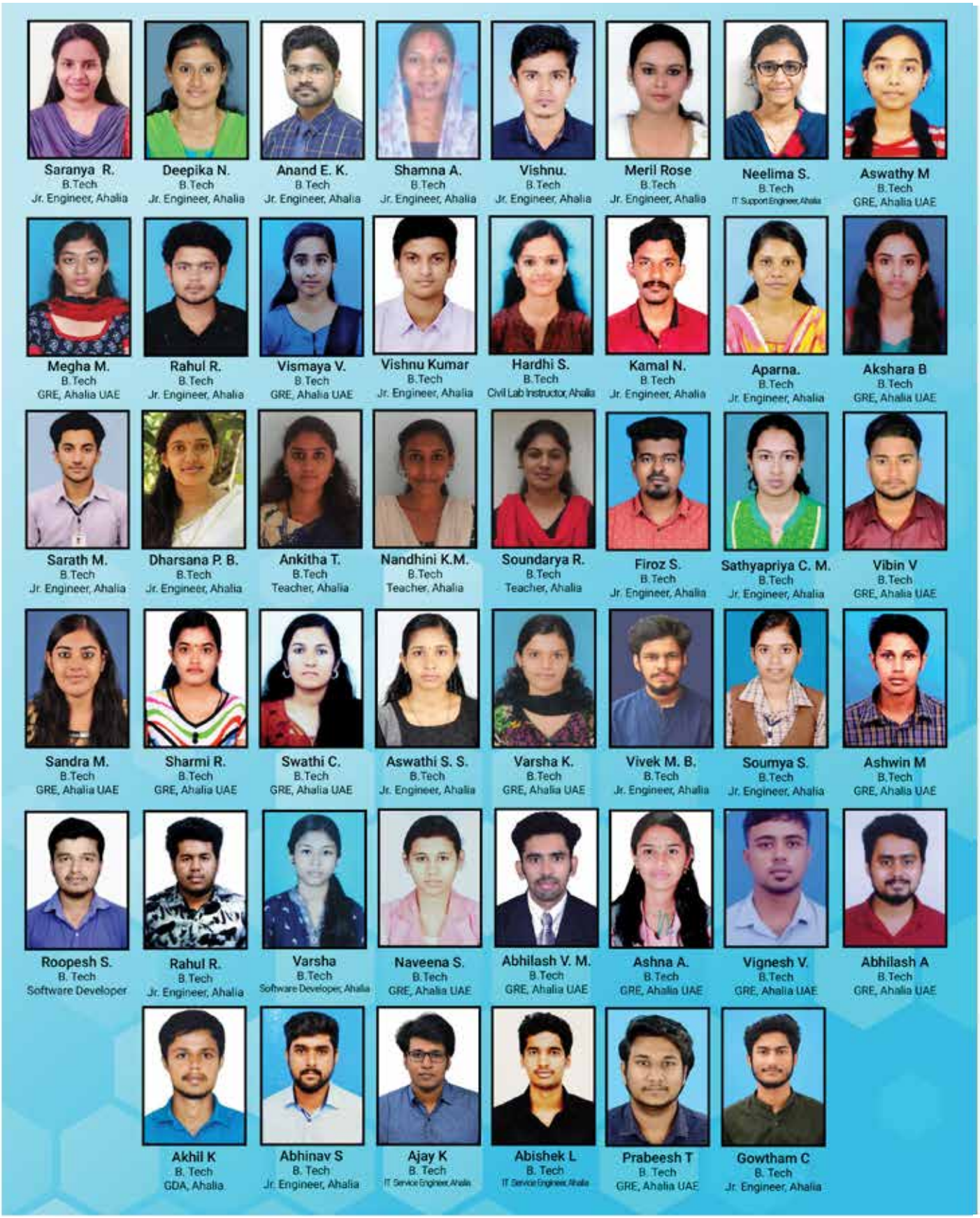
Mr. Sanal Prakash C
(2015-19 batch Mechanical Engineering)



Ms. Shibna
(2016-20 batch Civil Engineering)

Ms. Dhivya K. Nair (2016-20 batch Civil Engineering), Ms. Shibna (2016-20 batch Civil Engineering), Mr. Dileep P. (2016-20 batch Mechanical Engineering), Mr. Sanal Prakash C. (2015-19 batch Mechanical Engineering) and Ms. Jiji (2012-16 batch Electrical and Electronics Engineering) have joined Ahalia Group, Abu Dhabi, U.A.E. as Guest Relation Executives. Congratulations!

ALUMNI JOINED AHALIA GROUP



ALUMNI JOINED AHALIA GROUP



Mr. Prabeesh T. (2016-20, Mechanical Engineering), Mr. Abhilash A. (2016-20, Mechanical Engineering), Mr. Ashwin Menon (2016-20, Mechanical Engineering), Mr. Vibin V. (2013-17, Mechanical Engineering), Ms. Aswathy M. (2016-20, Computer Science and Engineering) and Ms. Akshara B. (2016-20, Computer Science and Engineering) have been offered placement in Ahalia Group, Abu Dhabi, U.A.E. as Guest Relation Executives. Congratulations!

DIGITAL PROLIFERATION IN COVID TIMES



ANAND HARIDAS
ASSISTANT PROFESSOR – CSE

The COVID pandemic has rightly created a digital spark that has set out a raging digital fire that continues its spree with no boundaries, perhaps the one the world has been waiting for so long to address itself as a digital planet.This digital wild fire has already turned many a conventions into ashes paving the way for the birth of a 'digitized existence' what has commonly been referred as the' new normal As enterprises and businesses scramble to adjust to this 'new normal',

Digi(tal) nationalism: The entire nation regardless of the geographical demarcation has seen a huge spike in the consumption of digital data leading to a huge outburst in the rise of digital data providers, many a provider that were dormant for so long had their fortunes turned around in a matter of days contributing to what could be called as a localized digital surge that proliferated by stitching together various others as well creating a digital wave that spread across the length and breadth of the nation .

Transition towards digital labour: The transition towards a comprehensive digital labour was rather anticipated at the initial times itself when this pandemic had slowly and gradually started debilitating the economic fabric of the entire nation from the roots itself. As the saying goes, this in essence has turned out to be a blessing in disguise as far as the conventional labour has been concerned that has relied heavily on the tangible transactions.

A Workspace for the future: This pandemic has turned out to be a 'turning point' in itself by redefining how the people work and interact. The

pandemic is revolutionizing the peoples' approach towards work, mobility and interactivity. The passing days continues to witness an acceleration of alternative work delivery models as well as employment constructs. Most of these new models would be solely powered by digital platforms in a big way.

Digital skill sets: This difficult times have rather turned out to be a fertile ground for the future technology leaders, providing them with the right blend of technological challenges and contexts that were once considered to be impossible to be solved. With the number of technology solution providers providing a feasible tech solutions literally on all aspects increasing day by day this has further stretched all the tech boundaries in an even bigger way.

Outcome as-a-Service model: With rising economic uncertainty and rising number of economic quagmires being created around, businesses would seek to engage all the stakeholders on outcomes, and not on the classical materials/service supplies. Therefore many enterprises have already taken the first step towards restructuring their service models in order to align to this new landscape and bundle their solutions on an outcome as-a-service model. Digital platforms would without the slightest of any doubt form the backbone of such a novel methodology.

In a nutshell it can be inferred that all the calamities had a hidden agenda of raising this planet to an even higher pedestal of prosperity and progress by throwing out high-intensity challenges literally at the face of the humanity. Time and again the human race were able to get over all those challenges in a concerted manner. And this 'pandemic challenge' too shall be criss crossed with elan.

ASET ACTIVITIES

WEBINAR ON
MEDIOCRE TO THE WORLD OF KNOWLEDGE

ASET Alumni Association organized a webinar on the topic "Mediocre to The World of Knowledge' on 9th Aug 2020. The session was conducted by Ms. Athulya S, Engineer Trainee, TCS



ATHULYA S
ENGINEER TRAINEE,
TCS,
PALAKKAD,
DEPARTMENT OF CSE
2015 - 2019 BATCH

WEBINAR ON
READINESS TOWARDS INDUSTRY 4.0

A webinar has been organized by the Department of Mechanical Engineering on 10 Aug 2020 on the topic 'Readiness towards Industry 4.0'. The session was conducted by Mr. Vinay S., Manager – Education and Training



MR. VINAY S
MANAGER -
EDUCATION &
TRAINING

ASET ACTIVITIES

WEBINAR ON
MICROWAVES IN MEDICINE

A webinar on 'Microwaves in Medicine' has been organized on 11 Aug 2020 by the IEEE Student Branch and the IEEE APS SBC of Ahalia School of Engineering and Technology in association with the IEEE MTT-S Kerala Chapter. The session was conducted by Dr. S. Raghavan, Professor(Rtd), Dept. of ECE, NIT Trichy.



Dr. S RAGHAVAN
PROFESSOR(HAG), RETD.,
DEPARTMENT OF
ELECTRONICS & COMMUNICATION
ENGINEERING,
N.I.T, TIRUCHIRAPPALLI

WEBINAR ON
PROCESS DEVELOPMENT IN MANUFACTURING INDUSTRIES

ASET Alumni Association organized a webinar on the topic 'Process Development In Manufacturing Industries' on 14 Aug 2020. The session was conducted by Mr. Praveen C, Manufacturing Engineer, Delphi TVS Technologies Ltd, Chennai



Mr. PRAVEEN C
MANUFACTURING ENGINEER,
DELPHI TVS TCHNOLOGIES LTD,
CHENNAI,
DEPARTMENT OF MECHANICAL
ENGINEERING 2013-2017 BATCH

ASET ACTIVITIES

WEBINAR ON
DATA VISUALIZATION: CURRENT TRENDS'

A webinar has been organized by the IEEE Student Branch, Ahalia School of Engineering and Technology, Palakkad on the topic 'Data Visualization: Current Trends' on 14 Aug 2020. The session was conducted by Mr. Vijay Nair, CTO, Assyst International, Kochi



VIJAY NAIR
CTO ASSYST INTERNATIONAL PVT LTD, KOCHI,
PAN APPS INC., U.S.A

HONORING SCHOOLS
AND STUDENTS OF PALAKKAD DISTRICT

A program for the appreciation and honoring the topper of full A+/A1 winners from various schools & schools with excellent results in board exams & AHALIA KEAM MODEL TOPPERS across Palakkad District was organized by ASET, on 15 th August



Shri V K SREEKANDAN
MEMBER OF PARLIAMENT
PALAKKAD

ASET ACTIVITIES



Ms. REMYA HARIDAS
MEMBER OF PARLIAMENT
ALATHUR

2020 at 3.00 PM through online. A total of 48 staff members and 600 students participated in this function Dr .P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology welcomed the dignitaries and the participants to the function. He also congratulated the students for their outstanding triumph and appreciated all the school staff members for their committed effort in shaping up a good result. Ms Remya Haridas Member of parliament Alathur presided over the function and she appreciated the efforts taken by staff and students for making result a virtuous one. Shri V K Sreekandan Member of Parliament Palakkad delivered the special address and also congratulated all the students for the remarkable results. He also advised them to maintain the same momentum throughout their journey in Future studies. He immensely appreciated ASET for the successful conduct of the event. The program came to an end by 6.00 PM.



ASET ACTIVITIES

ONE DAY FDP ON
GUIDELINES FOR GENUINE EVALUATION OF EXAMINATION ANSWER SHEETS



DR. P. R SREEMAHADEVAN PILLAI
DEAN, FACULTY OF ENGINEERING,
UNIVERSITY OF CALICUT & DIRECTOR,
AHALIA GROUP ACADEMIC INSTITUTIONS IN INDIA

A One day FDP on 'Guidelines For Genuine Evaluation of Examination Answer Sheets' was conducted by ISTE Ahalia Palakkad Chapter on 16 August 2020. The session was conducted by Dr .P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology.

WEBINAR ON
OPPORTUNITIES IN WIRELESS COMMUNICATION DOMAIN



KEERTHI S
ENGINEER R&D
MAVENIR SYSTEMS
BANGALORE

ASET Alumni Association organized a webinar on the topic 'Opportunities in Wireless Communication Domain' on 20 August 2020. The session was conducted by Ms. Keerthi S., Engineer R&D, Mavenir Systems, Bangalore.

ASET ACTIVITIES

PAN & ZOOM

A programming contest – 'Pan & Zoom' has been organized by the IEEE Student Branch and the Department of Computer Science and Engineering, Ahalia School of Engineering and Technology.



WEBINAR ON PCOD

The NSS unit of Ahalia School of Engineering and Technology organized a Webinar on PCOD on 12 September 2020. The session was conducted by Dr Jayalakshmi, Gynecologist, Ahalia Women and Children's Hospital, Palakkad.



Dr. JAYALAKSHMI
GYNECOLOGIST & OBSTETRICIAN
MBBS, DGO, DNB

ASET ACTIVITIES

WORLD OZONE DAY 2020

The NSS unit of Ahalia School of Engineering and Technology organized a training session on 'Subiksha Keralam' on 16 September 2020 as part of the World Ozone Day. The speaker for the session is Dr. Jayaraj P., Programme Coordinator, ICAR – Krishi Vigyan Kendra, Kannur.





CIVIL ENGINEERING ASSOCIATION INAUGURATION

The Civil Engineering Association was inaugurated on 21 September 2020 by Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director Academics, AHHKV. The inauguration was followed by a webinar on the topic 'Writing A Resume'. The session was handled by Dr. Krishna Kumar Kishor, Associate Professor, ASET and Assistant Director Academics, AHHKV. During the session he discussed about the best information to include in a resume, Do's & Dont's for formatting and content, how to present yourself to employers and the importance of proof reading the resume.

WEBINAR ON QUANTITATIVE APTITUDE FOR CORPORATE PLACEMENTS

The Center for Career Development, Ahalia School of Engineering and Technology organized a placement training program on 23.09.2020 from 5.30 p.m. onwards. The training program had given an insight into the fundamental requirements for students to appear and perform in various MNCs recruiting in the year 2021

ASET ACTIVITIES

WEBINAR ON
QUANTITATIVE APTITUDE FOR NATIONAL QUALIFIER TEST

The Center for Career Development, Ahalia School of Engineering and Technology organized a placement training program on 30.09.2020 from 5.00 p.m. onwards. The training program was designed to create awareness about the National Qualifier Test conducted by TCS. Problem solving mechanisms were discussed in the webinar.

IGEN – GREEN9 SDG CONCLAVE 2020

IGEN is hosting the First IGEN GREEN9 SDG CONCLAVE 2020 on 2nd and 3rd October 2020 with 14 academic partners, 16 hours, Innovative session on SDG 7,9 &13. Ahalia School of Engineering and Technology (ASET) and ASET GREEN9 EnSAv Club organized the Event @ IGEN G9 SDG Conclave 2020.

WEBINAR ON
IMPORTANCE OF COMMUNICATION AND CORPORATE ETIQUETTE

The Center for Career Development, Ahalia School of Engineering and Technology organized a placement training program on 09.10.2020 from 6.00 p.m. onwards. The training program was designed to create awareness on the importance of developing English language skills and improving the communication of the students.

ASET ACTIVITIES

WEBINAR ON
CONSTRUCTION PRACTICES AND GUIDELINES

The Department of Civil Engineering organized a webinar on the topic “Construction Practices and Guidelines” on 14 October 2020. The session was handled by Mr. Rabish A., Technical Manager, UltraTech Cement. During the session he explained about the modern techniques used in construction field and precautions to be taken while selecting materials.



RABISH A
TECHNICAL MANAGER,
ULTRATECH CEMENT LTD.

ASSOCIATION INAUGURATION OF CSE DEPT.

The Department of Computer Science and Engineering inaugurated the association events for the academic year 2020-21 on 15/10/2021. The function started at 4.00 p.m. with the welcome address of Dr. S. Gunasekaran, HOD/CSE. The inaugural address was given by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. The felicitation address was given by Dr. Krishna Kumar Kishor, Asst. Director. The name of CSE association is “Cyborg”. During this function, various clubs like Coding Club, Magazine Club, Computer Academy and Cultural Club were formed and inaugurated. The faculty in-charges and student in-charges for the various clubs are as follows:

ASET ACTIVITIES



WELCOME ADDRESS

Dr. S. Gunasekaran (HOD CSE)

INAUGURAL ADDRESS

Dr. P. R. Sreemahadevan Pillai (Principal)





FELICITATION ADDRESS

Dr. Krishna Kumar Kishor (Asst. Director)

- Association in-charge – Mr. Sreerag B.M, AP/CSE
- Association student chairman – Mr. Thanveer Ansik Aliakbar, S7 CSE
- Association secretary – Ms. Sharfana N M, S7 CSE
- Coding club in-charge – Prof. Sruthi Sukumaran – AP/CSE, Prof. Aswathi P. V. – AP/CSE
- Coding club Student members: Mr. Anandu K. – S7 CSE, Jayadev V – S7 CSE
- Magazine Club in-charge – Prof. Roshan Sanu Y. – AP/CSE, Prof. Akhil – AP/CSE
- Magazine Club Student members: Gokul R. – S7 CSE, Amitha Mohandas – S7 CSE
- Ahalia Computer Academy in-charge – Prof. Anand Haridas – AP/CSE, Prof. Krishna Kumar C. – AP/CSE

- Ahalia Computer Academy student members: Fathima Nazrin– S7 CSE, Harikrishnan K P – S7 CSE
- Music and Cultural in-charge – Prof. Keerthana I.P – AP/CSE
- Music and Cultural Student members: Sreelakshmi Vinod – S7 CSE, Mariha P M – S7 CSE

Mr. Thanveer Ansik Aliakbar (Association chairman) gave the vote ofthanks. The function concluded by 4:45 p.m

WEBINAR ON PYTHON FLASK



AISWARYA R
PROGRAMMER ANALYST
COGNIZANT

The Department of Computer science and Engineering conducted an online technical event on "Python Flask – UI for Python" on 20th October 2020. The resource person was Ms. Aiswrya R., Programmer Analyst in CTS. She is also a 2016-20 batch CSE Alumni. The function started at 5.00 P.M with the welcome address of Dr. S. Gunasekaran, HOD/CSE. Students from fourth, third and second year of CSE attended the program. The resource person gave an introductory idea about Python Flask. Normally students are using text editors and command line to execute a Python program. But Python flask is a User interface that provide tools, libraries and technologies that allow a programmer to build a web application. The programmer can design and deploy web application using HTML, CSS for front end design and Python as the programming logic. The resource person explained all

ASET ACTIVITIES

these ideas to students in a clear manner. The resource person demonstrated the design and deployment of sample web application in front of students. Since Python is the one of the most trending language in industry, we hope that this session would be a useful one for the students. Mr. Thanveer Ansik Aliakbar (Association Chairman) gave the vote of thanks. The function came to an end at 6.00 P.M.

WEBINAR ON
BLOCK CHAIN TECHNOLOGY



MRUDULA R
ASSOCIATE SOFTWARE DEVELOPER
UST GLOBAL

The Department of Computer Science and Engineering conducted an online technical event on "Introduction to Block chain technology" on 21st October 2020. The resource person was Ms. Mrudula R., Associate Software Developer in UST Global. She is also a 2016-20 alumni of the CSE Dept. The function started at 4.00 p.m. with the welcome address of Dr. S. Gunasekaran, HOD/CSE. Students from fourth, third and second year of CSE attended the program. The resource person gave an introduction to Block Chain Technology, which is one of the modern trends in computer science. The session started with the basic knowledge of Block Chain and its working mechanism. After that the resource person talked about various cryptographic methods like symmetric key crypto system, public key crypto system, etc. During the session the resource person gave a clear idea about "Ethereum". Ethereum is a technology that lets us send cryptocurrency to anyone for a small fee. The session concluded by mentioning some of the applications of block chain like Medichain, Propy. Mr. Thanveer Ansik Aliakbar (Association Chairman) gave the vote of thanks. The function came to an end at 5.00 p.m.

ASET ACTIVITIES

CAMPUS RECRUITMENT TRAINING PROGRAM



Ms. SHIFA RAHMAN
FOUNDER, SR INSTITUTE - RESEARCH, LEARNING & DEVELOPMENT

The Center for Career Development, Ahalia School of Engineering and Technology is organizing a series of campus recruitment training programs (60 Hrs) from 22 October 2020 to 22 November 2020. The first session on building the right attitude and personality held on 22 October from 5.00 to 6.30 p.m. The session was conducted by Ms Shifa Rahman Founder SR –Institute, Research and Development.

ASSOCIATION INAUGURATION OF DEPARTMENT OF EEE

The inauguration of the association of Department of EEE held on 27 October 2020 by Dr. Gunasekaran Thangavel, Program Director, Telecommunication Engineering, Electrical and Electronic Engineering Section, University of Technology and Applied Sciences, Muscat, Oman. . Dr. P. R. Sreemahadevan Pillai, Principal, ASET presided over the function. Dr. Krishna Kumar Kishor, Asst. Director-Academics, AHHKV. Felicitated the event.

ASET ACTIVITIES

NATIONAL SEMINAR ON 'PROFESSIONAL ETHICS AND HR VALUES

A national online seminar on 'Professional Ethics and HR Values' has been organized on 28 October 2020 by Ahalia Group of Educational Institutions in association with the Rural Entrepreneurship Development Cell, MoE, Govt. of India. The sessions was handled by Mr. Sadashib Padhee, CHRO & Vice President-HR & IT, Kirloskar Pneumatic Co. Ltd. and Mr. S. Rathish, Former Chief Engineer, KWA, Former Director (Operations), Kerala Rural Water Supply and Sanitation Agency.



Mr. SADASHIB PADHEE
CHRO & VICE PRESIDENT H R & IT,
KIRLOSKAR PNEUMATIC CO. LTD.



Mr. S. RATHISH
FORMER CHIEF ENGINEER, KWA,
FORMER DIRECTOR (OPERATIONS),
KERALA RURAL WATER SUPPLY
AND SANITATION AGENCY

ASSOCIATION INAUGURATION OF ECE DEPARTMENT

The Department of Electronics and Communication Engineering in association with the IEEE Student Branch, IEEE Women In Engineering (WIE) Student Branch Affinity Group of Ahalia School of Engineering and Technology, Palakkad organized a webinar titled "Future Possibilities and

ASET ACTIVITIES



SURABHI K S
ASSISTANT SYSTEM ENGINEER
TATA COUNSULTANTANCY SERVICES

Current Trends In IT Industry' on 30 October 2020 in connection with inauguration ceremony of the ECE Association ERFINDERS.This was attended by 40 students and 4 staff members (12 IEEE members). The resource person was Ms. Surabhi K. S., Assistant System Engineer, Tata Consultancy Service (TCS). She shared her experiences and the scope of IT sector in the upcoming years and also about the current trends in IT field. This event was coordinated by Ms. Megha K. A. (4th year ECE) and Ms. Megha T. R. (4th year ECE).

2020-21 IEDC EXECUTIVE MEMBERS



ASET ACTIVITIES

The Innovation and Entrepreneurship Development Centre (IEDC) of Ahalia School of Engineering and Technology, Palakkad has conducted the selection of IEDC executive members for the academic year 2020-2021. The following are the new executive members.

WEBINAR ON
GATE WAY TO EXCELLENT CAREER OPPORTUNITIES



Mr. SARAVANAKUMAR A
MANAGING DIRECTOR,
GATE FORUM,
COIMBATORE

The IEEE Student Branch, IEEE Women In Engineering (WIE) Student Branch Affinity Group of Ahalia School of Engineering and Technology, Palakkad organized a webinar titled “GATE Way To Excellent Career Opportunities” on 31 October 2020. The event was attended by 46 students and 4 staff members (16 IEEE members). The resource person was Mr. Saravanan A., Founder, GATE Forum, Coimbatore. The session was about the different fields the students can choose after their B.Tech. and about various competitive exams. The session explained in detail about different exams, how to apply for it, who is conducting the exam and how to prepare for it. Overall, the students appreciated the session since it was a great source of information for their future. This event was coordinated by Ms. Megha K. A. (4^{th} year ECE) and Ms. Megha T. R. (4^{th} year ECE).

ASET ACTIVITIES

INAUGURATION OF ASET GREEN 9 ENSAV CLUB



Dr. AKILA M
SECRETARY, INSTITUTION OF GREEN ENGINEERS, CHENNAI AND PRINCIPAL, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE

The ASET Green 9 Ensav club was inaugurated on 31 October 2020 by Dr. Akila .M, Secretary, Institution of Green Engineers, Chennai and Principal, KPR Institute of Engineering and Technology, Coimbatore. Dr. P. R. Sreemahadevan Pillai, Principal, ASET presided over the function. Dr. Krishna Kumar Kishor, Asst. Director-Academics, AHHKV. Felicitated the event

BEST OUTGOING, BEST ALL-ROUNDER AND CLASS TOPPERS – 2020

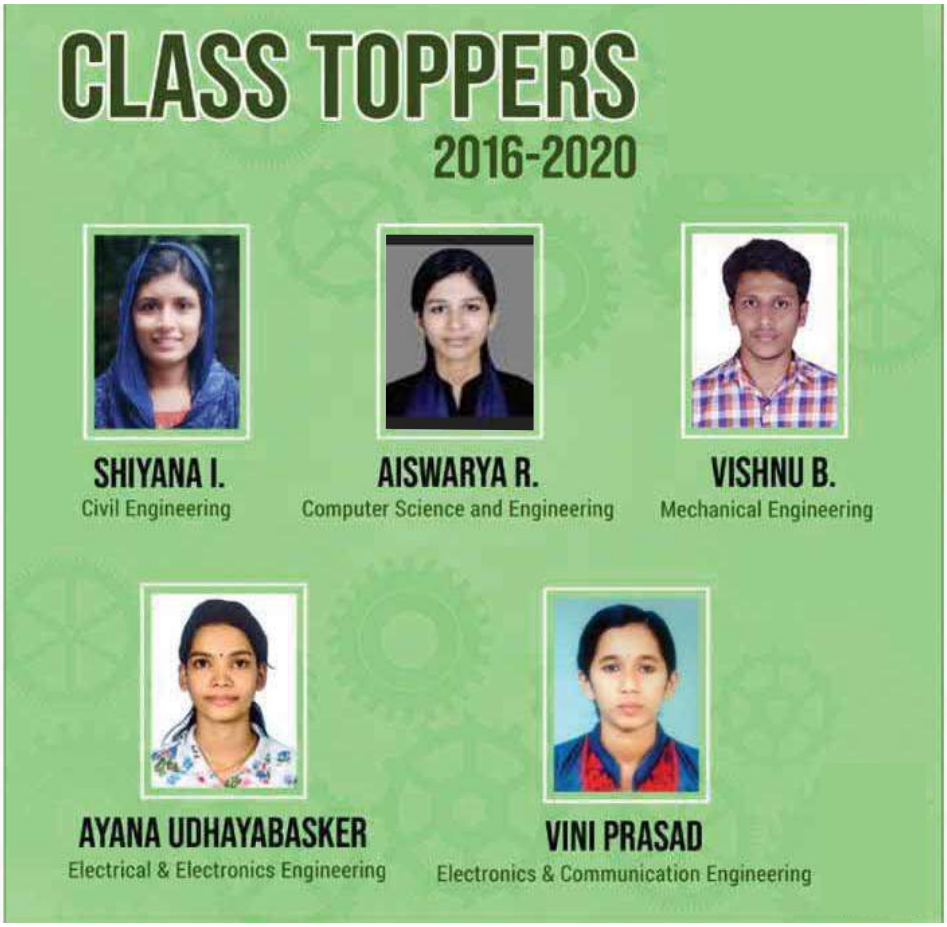


Mr. Sreejith S
Mechanical(University Team Player),
(Placed in Federal Bank through Campus Recruitment)



Ms. Shiyana I
(Civil, CGPA 9.41)

ASET ACTIVITIES



WEBINAR ON
MANUFACTURING OF INJECTORS

The Department of Mechanical Engineering along with the ASET Alumni Association organized a webinar on 'Manufacturing of Injectors' on 1 November 2020.



Mr. PRAVEEN C
MANUFACTURING ENGINEER,
DELPHI TVS TCHNOLOGIES LTD,
CHENNAI

The resource person was Mr. Praveen C., Manufacturing Engineer, Delphi TVS Technologies Ltd., Chennai. He is also an alumni of (2013-17 batch) of the Mechanical Engineering Department. The speaker explained about recent process advancements in the field of manufacturing of automobile injectors and how to plan for a successful career as an automobile engineer. Mr. Dhanesh S., Assistant Professor (ME) was the coordinator for this event.

WEBINAR ON
HOW TO BUILD A CAREER IN MARINE ENGINEERING



A Webinar on "How to Build A Career in Marine Engineering" was organized by the Department of Mechanical Engineering on 3rd November 2020. The resource person was Mr. Faisal Farook, Director, Accurant Engineers Ivion Industrial Academy, Cochin. The webinar mainly focused on how to select a particular field in Marine Engineering and how to complete a proper training in the field of selection. Mr. Dheeraj P., Assistant Professor (ME) was the coordinator for this event.

ASET ACTIVITIES

WEBINAR ON
DESIGN OF RENEWABLE ENERGY SYSTEMS USING MATLAB

A webinar has been organized by the Department of Electrical and Electronics Engineering on 5 November 2020 on the topic 'Design of Renewable Energy Systems Using MATLAB'. The session was handled by Dr. Ezhilavan B., VEI Technologies, Chennai.

WEBINAR ON
THE ART OF START



Mr. ARUN J S
ASSISTANT PROFESSOR,
NODAL OFFICER (KSUM IEDC)
CO-FOUNDER (SLATE AND PENCIL)

A webinar on "The Art of Start" was organized by the Innovation and Entrepreneurship Development Centre (IEDC) – ASET, Palakkad in association with Institution's Innovation Council (IIC) on 09.11.2020 by Mr. Arun J. S., Assistant Professor, Nodal Officer (KSUM IEDC), Co-Founder (Slate and Pencil). Fifty five students attended the program. The talk mainly emphasized on attitudes and mindset to promote entrepreneurship and the importance of innovation and creativity. The talk inspired the students to have a disruptive innovation mindset to achieve success. Bharath Roshan (S7 ME) and Vishnupriya K. (S7 ECE) were the overall coordinators of the event.

POEM

മരണ ഹേതു

പേമാരിയായ് നീ തീർത്ത നിന്റെ കണ്ണുനീർ,
പ്രളയമുഖരീതമായൊരു കല്ലറയൊരുക്കി..
അർപ്പിക്കുവാൻ പുഷ്പമോ സുഗന്ധവാസനയോ ഇല്ല.
നിർവ്യണക്രിയകൾക്കു പകരം ഹൃദയംഗമമായാ പ്രാർത്ഥനമാത്രം.
ജീവൻ പൊലിയുന്ന മഹാമരിക്കുമുന്നിൽ കണ്ണുകൾ മാത്രം
സാക്ഷിയായ്..
നിന്റെ കൈയിലെ വിടരാത്ത മൊട്ടുകൾ പിഞ്ചു കുഞ്ഞുങ്ങൾ എന്ത്
അറിയുന്നു?
ഉറ്റവർ ഉടയവർ, ഞങ്ങൾ തീർത്ത സ്വപ്നമാളികകൾ; സർവവും
നിൻ താണ്ഡവ പ്രഹരത്താൽ തകർന്നടിയുന്നു.
ഓരോ അകാരത്തിലും നീ ഏകിയത് ജീവനോടെയുള്ള
ഞങ്ങളുടെ ലയമാണ്..!



ANIMA P S
ADMIN ASSISTANT
ASET



INSTITUTIONS IN AHALIA CAMPUS


AHALIA FOUNDATION EYE HOSPITAL


AHALIA AYURVEDA MEDICAL COLLEGE HOSPITAL


AHALIA DIABETES HOSPITAL


AHALIA WOMEN & CHILDRENS HOSPITAL


AHALIA MEDICINE MANUFACTURING UNIT


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Vol 6
Issue 1

January 2021

ASET NEWS

A monthly Newsletter of
Ahalia School of Engineering
& Technology



AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

ISO 9001:2015 Certified Institution. Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
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PRINCIPAL'S MESSAGE

NEW YEAR GREETINGS The new year 2021 is blossoming with the hope of survival from the COVID 19 pandemic, which almost swallowed 2020. Resurrection is always a reality in history, not only for the phoenix, but for the homo sapiens also. New paradigms and normals shall take over the prevailing ones. The fittest shall survive in all walks of life. With new vigour and vision, let us welcome the New Year. Wish you, the dear and near, a healthy and happy year ahead.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group

EDITORIAL

It is with great pleasure that we bring you the first issue of this year ASET NEWS 2021, the monthly newsletter of ASET. The current newsletter highlights the activities of our students and the achievements of faculty during the past Month. The intent of ASET News is to disseminate information about our Institute, and we hope that the readers find the issues informative and useful. We are thankful to the faculty, staff and students of ASET for their valuable inputs, and we welcome suggestions and feedback that will help us improve further. We can be reached at aset.library@ahalia.ac.in. We wish you all a happy Christmas and prosperous New Year

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Vol 6
Issue 1

January 2021

ALUMINI NOW JOINED AHALIA GROUP



Abhishek L
CSE 2015 - 19



Ajay Krishnan S
CSE 2016 - 20



Abhinav Suresh
ME 2014 - 18



Goutham Chandran
ME 2015 - 19



Sarath M
ME 2016 - 20



Arun. S
ECE 2015 - 19



Akhil K
ME 2016 - 20

Vol 6
Issue 1

January 2021

DEEP LEARNING

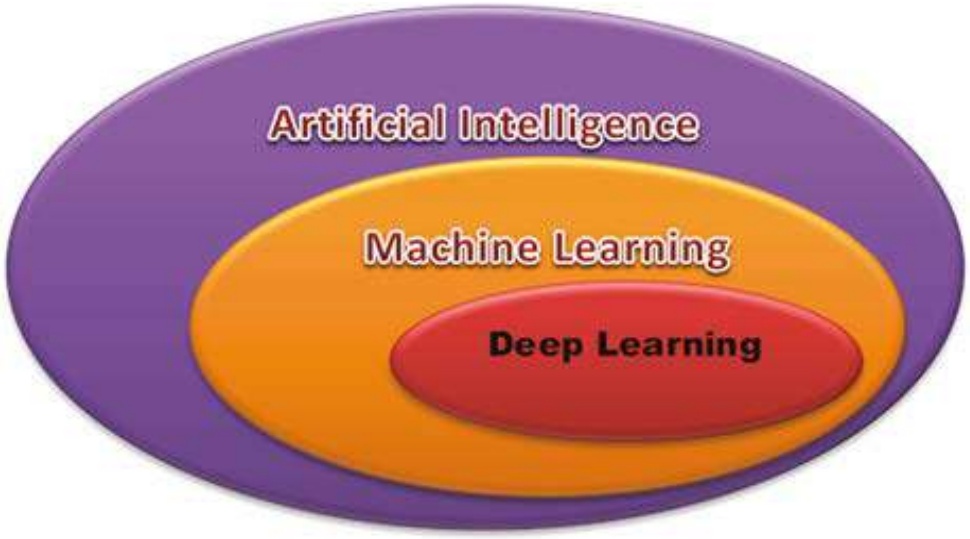


Dr.S.Gunasekaran
Professor, HoD-CSE

In this modern digital world, Artificial Intelligence (AI) is making the machine to imitate human intelligence. Machine learning is one of the major areas under AI which enhances computing technology to think like a human being. In the computing world, machines can think like human beings with the help of machine learning and deep learning.

A child is being grown up by experiences and knowledge gathered by it's surrounding like that a computing machine can improves its intelligence by getting inputs and algorithms. All the children are Initially learning a language by getting vocabulary and grammatical corrections from his/her mother , That's why this language is known as mother tongue. The learning processes in childhood are carried out with supervised learning by their parents and teachers and unsupervised by the society, like that a computing machine can learn by supervised learning and unsupervised learning using machine learning algorithms.

Before understanding deep learning, it is important to understand Artificial Intelligence and machine learning because deep learning is proper subset for both the technologies which is depicted in the following figure.



Artificial Intelligence

you can say that intelligence involves certain mental exercises composed of the following activities:

- Learning: Having the ability to obtain and process new information.
- Reasoning: Being able to manipulate information in various ways.
- Understanding: Considering the result of information manipulation.
- Grasping truths: Determining the validity of the manipulated information.
- Seeing relationships: Divining how validated data interacts with other data.
- Considering meanings: Applying truths to particular situations in a manner consistent with their relationship.
- Separating fact from belief: Determining whether the data is adequately supported by provable sources that can be demonstrated to be consistently valid.

AI is modeled to simulate human intelligence, but that's what it is: a simulation. When thinking about AI, notice that an interplay exists between goal seeking, data processing used to achieve that goal, and data acquisition used to better understand the goal. AI relies on algorithms to achieve a result that may or may not have anything to do with human goals or methods of achieving those goals.

Machine learning

Machine learning is one of a number of subsets of AI and the only one this book discusses. In machine learning, the goal is to create a simulation of human learn-ing so that an application can adapt to uncertain or unexpected conditions. To perform this task, machine learning relies on algorithms to analyze huge datasets.
The current state of AI, then, is one of performing analysis, but humans must still consider the implications of that analysis: making the required moral and ethical decisions. The essence of the matter is that machine learning provides just the learning part of AI, and that part is nowhere near ready to create an AI of the sort you see in films.The main point of confusion between learning and intelligence is that people assume that simply because a machine gets better at its job (it can learn), it's also aware (has intelligence). Nothing supports this view of machine learning. The same phenomenon occurs when people assume that a computer is purposely causing problems for them.

Deep learning

Deep learning is a subset of machine learning, as previously mentioned. In both cases, algorithms appear to learn by analyzing huge amounts of data (however, learning can occur even with tiny datasets in some cases). However, deep learning varies in the depth of its analysis and the kind of automation it provides. You can summarize the differences between the two like this:

The development of Deep Neural Networks along with the development of the requisite powerful hardware which could process huge amounts of data revolutionized the field of artificial intelligence. These Deep Neural Networks helped in providing the computers with the ability to process images, videos, speech and natural human language. Machine Learning and Deep Learning technologies heavily use the mathematical models.

Deep Learning blog

This section pointed out the top five blogs Analytics India Magazine has selected for you about the new development in Deep Learning area:

1. **Notey.com:(http://www.notey.com/blogs/deep-learning)** This technology website has a swanky blog section dedicated exclusively to Deep Learning. The section is updated regularly and connects various dots for the uninitiated, as well as publishes insightful news for the voracious readers. Its latest post about the a Deep Learning algorithm-cum-new horror novelist Shelly is hilariously insightful. Developed by researchers from MIT, Shelley AI takes inspiration from original works and human Twitter contributions to spin the scariest words in a short horror prose.

2. **Open AI:(https://blog.openai.com/)** OpenAI is a non-profit artificial intelligence research company that aims to promote and develop safe and friendly AI. Big names such as Sam Altman, Elon Musk and and other notable investors came along to fund this nonprofit organisation. OpenAI blog is religiously followed all over the world by Deep Learning and AI enthusiasts. It regularly posts about their research on advanced AI-powered technologies such as Natural Language Processing, Image Processing and Speech Processing.

3. **Adit Deshpande's Blog: (https://adeshpande3.github.io/)** Adit Deshpande is a Computer Science undergrad from UCLA. The prime focus of his writings is Machine Learning and Deep Learning. His posts are centered for beginners to start learning about neural networks. Deshpande says, "In my mind, machine learning and computer science really have the power to make the gradual shift to preventative instead of reactionary healthcare."

4. **BAIR Blog:(http://bair.berkeley.edu/blog/)** BAIR Blog generally publish a post per week about various research going in the field of Deep Learning, Artificial Intelligence and Machine Learning at BAIR. It is set up by Berkeley AI Research (BAIR) group from University of California, Berkeley. It aimes to communicate research findings, perspective and updates on the AI research done at the BAIR group. BAIR blogs' editing team consists of students, post-docs and faculty from BAIR group. For example their latest blog post talks about Imitation Learning (IL), also known as Learning from Demonstration (LfD), where a robot learns a control policy from analysing demonstrations of the policy performed by an algorithmic or human supervisor. "For example, to teach a robot make a bed, a human would tele-operate a robot to perform the task to provide examples.

The robot then learns a control policy, mapping from images/states to actions which we hope will generalise to states that were not encountered during training," states the blog.

5. inFERENCe: (http://www.inference.vc/) This is a blog by Dr Ferenc Huszár a PhD from Cambridge, who with Twitter Cortex. He writes about probabilistic inference, generative models, unsupervised learning and applying deep learning to these problems. He also provides posts on niche aforementioned topics, such as Instance Noise and Gradient Regularisation, among many, many others.

10 MOST USEFUL PYTHON LIBRARIES FOR STUDENTS



Dr.S.Gunasekaran
Professor, HoD-CSE

Python is the most powerful programming language in the current computing world which replaces the several programming languages in the market. Python is famous for its open source Technology and this open source concept enriches the languages with millions of packages which makes Python, the most powerful programming language. If students want to carry on their projects using the Python language they need to be familiar with the packages and algorithms. Somany readymade code and algorithms are available in the Python packages which can be used by the research Scholars and software industry people in their project. In this article I am going to explore the top 10 packages which are available in the Python programming language.

Pandas: Pandas is an open-source library that offers instant high performance, data analysis, and simple data structures. When can you use it? It can be used for data munging and wrangling. If one is looking for quick data visuals, aggregation, manipulation, and reading, then this library is suitable. You can impute the missing data files, plot the data, and make edits in the data column. Moreover, for renaming and merging, this tool can do wonders. It is a foundation library, and a data scientist should have in-depth knowledge about Pandas before any other library knowledge.

TensorFlow: TensorFlow is developed by Google in collaboration with the Brain Team. Using this tool, you can instantly visualize any part of the graphical representation. It comes with modularity and offers high flexibility in its operations. This library is ideal for running and operating in large scale systems. So, as long as you have good internet connectivity, you can use it because it is an open-source platform. What is the beauty of this library? It comes with an unending list of applications associated with it.

NumPy: NumPy is the most popular Python library used by developers. It is used by various libraries for conducting easy operations. What is the beauty of NumPy? Array Interface is the beauty of NumPy and it is always a highlighted feature. NumPy is interactive and very

simple to use. It can instantly solve complicated mathematical problems. With this, you need not worry about daunting phases of coding and offering open-source contributions. This interface is widely used for expressing raw streams, sound waves, and other images. If you are looking to implement this into machine learning, you must possess in-depth knowledge about NumPy.

Keras: Are you looking for a cool Python library? Well, Keras is the coolest machine learning python library. It runs smoothly on both CPU and GPU. Do you want to know where Keras is used? It is used in popular applications like Uber, Swiggy, Netflix, Square, and Yelp. Keras easily supports the fully connected, pooling, convolution, and recurrent neural networks. For any innovative research, it does fine because it is expressive and flexible. Keras is completely based on a frameworkwhich enables easy debugging and exploring. Various large scientific organizations use Keras for innovative research.

Scikit- Learn: If your project deals with complex data, it has to be the Scikit- Learn python library. This Python Machine Learning Library is associated with NumPy and SciPy. After various modifications, one such feather cross-validation is used for enabling more than one metric. It is used for extracting features and data from texts and images. It uses various algorithms to make changes in machine learning. What are its functions? It is used in model selection, classification, clustering, and regression. Various training methods like nearest neighbor and logistics regressions are subjected to minimal modification.

PyTorch: PyTorch is the largest library which conducts various computations and accelerations. Also, it solves complicated application issues that are related to the neural networks. It is completely based on the machine language Torch, which is a free and open-source platform. PyTorch is new but gaining huge popularity and very much a favorite among the developers. Why such popularity? It comes with a hybrid end-user which ensures easy usage and flexibility. For processing natural language applications, this library is used. Do you know what the best part is? It is outperforming and taking the popularity of Tensor Flow in recent times.

MoviePy: The MoviePy is a tool that offers unending functionality related to movies and visuals. It is used for exporting, modifying, and importing various video files. Do you want to add a title to your video or rotate it 90 degrees? Well, MoviePy helps you to do all such tasks related to videos. It is not a tool for manipulating data like Pillow. In any task related to movies and videos in python coding, you can no doubt rely on the functionality of MoviePy. It is designed to conduct all the aspects of a standard task and can get it done instantly. For any common task associated with videos, it has a MoviePy library.

Matplotlib: Matplotlib is no doubt a quintessential python library whose presence can never be forgotten. You can visualize data and create innovative and interesting stories. When can you use it? You can use Matplotlib for embedding different plots into the application as it provides an object-oriented application program interface. Any sort of visualization, be it bar graph, histogram, pie chart, or graphs, Matplotlib can easily depict it. With this library, you can create

any type of visualization. Do you want to know what visualizations you can create? You can create a histogram, Bar graph, pie chart, area plot, stem plot, and line plot. It also facilitates the legends, grids, and labels.

Tkinter: Tkinter is a library that can help you create any Python application with the help of a graphical user interface. Tkinter is the most common and easy to use python library for developing apps with GUI. It binds python to the GUI tool kit which can be used in any modern operating system. To create a python GUI, Tkinter is the only best way to start instantly.

Plotly: The Plotly is an essential graph plotting python library for developers. Users can import, copy, paste, export the data that needs to be analyzed and visualized. When can you use it? You can use Plotly to display and create figures and visual images. What is interesting is that it has amazing features for sending data to the various cloud servers.

IEEE STUDENT BRANCH OF ASET – 2020 REVIEW



Dr. Krishna Kumar Kishor
IEEE SB Counselor
Associate Professor, ECE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. It has over 419,000 members in over 160 countries. The students of our Institution too have an opportunity to join this technical community and become members of the IEEE Student Branch (SB) of Ahalia School of Engineering and Technology (ASET), Palakkad.
The IEEE SB of ASET started functioning in May 2019 and organized a variety of activities last year. Continuing on with these efforts, in 2020, our SB organized twenty nine activities (until November 2020) in the Institution. Prior to the lockdown, which came into effect in mid-March, offline or in-person activities were conducted. During the lockdown, the branch's activities shifted to online mode and in this context, I greatly appreciate our student members for taking the initiative and continuing on with the branch's activities. The topics covered include data science, mental health, career growth, electromagnetics, cyber safety, MATLAB, Python, OpenCV, entrepreneurship, communication skills as well as non-technical activities such as drawing and bottle art competitions and learning Adobe Photoshop. A highlight of 2020 was the inauguration of the IEEE Women In Engineering (WIE) Student Branch Affinity Group in June 2020. The presence of this in ASET provides a good opportunity for the students to connect with leading personalities in Kerala, India and abroad. This is in addition to the IEEE Antennas and Propagation Society (APS) Student Branch Chapter that was inaugurated in July 2019, to link students interested in the

field of antennas, wave propagation and electromagnetics with the top researchers in this field across the globe.

One of the goals of the SB is to provide a platform for the students to connect to their peers in other Institutions inside and outside Kerala. This allows them to mutually learn, broaden their outlook and perspectives and share their experiences. In 2020, the members of our SB participated in forty one events (including webinars) at the national and international level. Within Kerala, the members attended twenty three activities (including webinars). Some of the programs attended by our members include the IEEE Xtreme 14.0 (a global programming content), All India Student - Young Professionals – Women In Engineering – Life Member Congress, All Kerala Antennas and Propagation Society Students Conclave 2020, V-Fiesta 2020 and other events organized by Student Branches across India.

At present, the SB consists of twenty nine students and three faculty members and we look forward to having more members in the student branch in the coming years. The SB is also thankful to all the departments and other student bodies of the Institution with whom we have collaborated and look forward to continued association in the upcoming year. Looking forward to 2021, the SB aims to organize more technical and developmental activities with a wider reach amongst the students both inside and outside ASET.



Vol 6
Issue 1

January 2021

WORLD ENERGY CONSERVATION DAY



Dr. G. Murugananth
Professor & HoD - EEE

December 14 of every year is celebrated as World Energy Conservation Day. On this day it's essential to raise the awareness among public on the need for energy conservation. Energy is being generated mostly through fossil fuels, which are estimated to be available only for few years. Fossil fuels include coal, oil, natural gas etc. Human beings are the sole responsible for the depletion of fossil fuels and natural resources. We exploit them for industrial needs, transportation, electricity generation, heating applications and so on. For both domestic and industrial consumers, the main problem associated with the natural resources depletion is the increase in electricity cost. This cost in turn increases the base value of any product or service and finally the overall cost also increases. One day when all the resources are depleted, the world will be put in dark. Hope you all are remember the day, 12 April 2018, yeah!! It's the day on which Cape Town, Capital of South Africa, was declared with Zero Water and the day is "Zero Water Day". Depletion of natural resources and fossil fuels reduced the rainfall and added the reasons for this day. The same may be expected as world dark day, if the scenario continues....
Optimal and effective usage of the resources and interest on alternative fuels are the two main aspects whereby we can conserve energy and make the earth more sustainable. Measures and initiatives are being taken up by government agencies to promote the energy conservation among the community. Owing to these reasons, the World Energy Conservation Day is being celebrated. As rightly said by Dr. Kalam, "If not now, When? And If not you Who?" the energy conservation measures should come from individuals. Here are the 9 Mantras to be practiced daily by you at your home to conserver electric energy. Following these mantras and practicing them daily will increase the harmony to survive on earth effectively.

Mantra 1: Switch OFF the equipment's when not in use.
Description: Whenever you leave a room, see that the appliances available in that room are switched off. Normally, users forget by negligence to switch off the light or fan, when they exit a room. If this is avoided and the mantra is practiced, we could save 50 WHr per day in a home. Use stickers that could positively motivate the users at work place to practice this mantra. (Thanks for Switching OFF the fans and lights after use).

Mantra 2: Regularly clean the AC filter & Use natural lighting
Description: Filters available in Air Conditioners (AC), has to be cleaned at least once in two months. This will improve the efficiency of the air conditioners. Neglecting it, we could feel the deterioration in the performance of the ACs. In addition, open the window screens when ad wherever possible. It would bring in more natural lighting to your room and reduces the usage of electricity for lights during the day time. Practicing this mantra will reduce 100 WHr per day.

Mantra 3: Use star rated equipment
Description: It is advised to purchase appliances with more star ratings. These ratings are graded by the Bureau of Energy Efficiency on a 5 point scale. When the number of star increases, the electricity consumption decreases thereby increasing the energy conservation. Usage of star rated equipment will reduce the electricity consumption by 25%.

Mantra 4: Use LED study lamps
Description: Incandescent lamps and energy consuming florescent lamps can be replaced by energy efficient LED lamps. Particularly study room lights can be replaced with LED lamps. For the same luminance's LED lamps consume less energy compared to incandescent and florescent lamps. About 180 WHr energy can be saved by replacing the normal lamps with LED.

Mantra 5: Defrost the refrigerator regularly
Description: Refrigerator is a crucial appliance. On the day of purchase it is switched ON at a home. It's OFF only when there is an interruption of power supply. This is a very bad practice. Like human, this machine also needs a rest. Hence it is advised to defrost the refrigerator once in a month. Locate it near a window or give a space for ventilation. Avoid keeping it close to the walls. Set the optimal temperature in it, close the door without a delay, keep only cool items or cold food stuff in it and check the door seals frequently. Following these practices will improve the efficiency of the refrigerator and causes additional savings of 250 WHr per day at home.

Mantra 6: Use heavy equipment during Off-peak hours
Description: Heavy loads viz. sump motors are to be operated only during off peak hours. When they are operated at peak hours, the input voltage reduces and thereby increasing the energy consumption. On the other hand, when they are operated at OFF peak hours, the input voltage will be the rated voltage, thus making the time for operation intended to be reduced. This way by shifting the operating period to OFF peak periods, causes energy conservation upto 175 WHr per day at home.

Mantra 7: Avoid leaving the equpipment in standby mode
Description: Most of us leave the equipment in stand by modes. Particularly those appliances which are operated though remote controls, laptop chargers, adapters etc. This practice has to be avoided. An awareness has to be created among all the stakeholders to avoid such a condition. Instead of switching off the appliance via remote, and leaving it in standby, the complete appliance can be switched off. When leaving an office, the last-man-out from it should check and switch off the power source to all air conditioning, lighting and office equipment that are not in use. This practice will bring an energy conservation of 50 WHr per day.

Mantra 8: Optimally use water & set the AC temperature
Description: Water usage has to be optimized. It is advised to reduce the shower timings. Don't let the water to run. Use Timers. The temperature in the water heater can be reduced. For laundry use cold water, use the dishwashers efficiently. Fix the leaks and install low-flow fixtures. Recommended

to sue solar heaters. By these means water can be optimally used with controlled temperature. This practice contributes with maximum savings of 425 WHr of energy per day at home.

Mantra 9: Replace the maximum utilized light with a solar LED
Description: Solar LED lamps are becoming quite popular nowadays. With less power they provide better luminance. They are long lasting and requires less maintenance. They can be charged during the day time and used during nights. Verandah, passage lights etc. can be replaced with solar LEDs. Using them result in an energy savings of 480 WHr.

Let us join hands with ASET Green 9 ENSAV Club, Ahalia School of Engineering & Technology, and take an oath to pracce these simple 9 mantras regularly at home. This will contribute for a total energy conservation of around 1680 WHr i.e. more than one and half units of energy savings per day per home. Being a good citizen, hope we can practice these mantras and contribute for a Green Future and Save our Mother Earth!!!!!!!!!

ASET ACTIVITIES

HANDS-ON TRAINING ON 'NEURAL NETWORKS WITH PYTHON'

The IEEE Student Branch in association with the IEEE Women In Engineering (WIE) Student Branch Affinity Group and the IEEE Antennas and Propagation Society (APS) Student Branch Chapter, Ahalia School of Engineering and Technology, Palakkad organized a"Hand-on Training: Neural Networks with Python"on 15 November 2020. The session was handled by Dr. Sridhar Swaminathan, Assistant Professor, Department of Computer Science Engineering, Bennet University, Noida. In the session 32 people (10 IEEE members, 22 non-IEEE members) participated. The session included topics like what is a neural network, how to create a neural network in Python, training and running neural networks etc. The session was coordinated by Mr. Anirudh K. (2nd year ECE) and Mr. Sankulesh M. (2nd year ECE).



Shridhar Swaminathan

WEBINAR ON 'INTELLECTUAL PROPERTY RIGHTS'

A webinar on "Intellectual Property Rights" was organized by the Department of Electrical and Electronics Engineering – ASET, Palakkad in association with Institution's Innovation Council (IIC) on 19.11.2020 by Dr. Thiagarajan, Associate Professor, Christ College of Engineering and Technology, Puduchery. 35 students attended the program. The talk mainly emphasized on the need for the ideas to be patented. The importance of filing a patent in the student period was the main part of the discussion. The talk inspired the students to have awareness on various facets of IPR. Ms. Saranya Nair (S7 EEE) and Mr. Sarath Sunil (S7 CE) were the overall coordinators of the event.



Dr Thiagarajan

WEBINAR ON 'CAREER OPPORTUNITIES IN ADVANCED TECHNOLOGIES'

The Centre for Career Development, Ahalia School of Engineering and Technology in association with TechMindz, organized a webinar and pre-placement talk on 'Career Opportunities in Advanced Technologies'.on 20 November 2020.

WEBINAR ON 'SIMULATION ENGINEERING AND ITS SCOPE IN MECHANICAL INDUSTRY'

A Webinar on 'Simulation Engineering and Its Scope in Mechanical Industry'" was organized by the Department of Mechanical Engineering on 21 November 2020 The session was handled by Mr. Thiyaneshwaran V., Team Lead-Private Aerospace Company, Bengaluru.

WEBINAR ON 'NEURAL NETWORKS AND BRAIN STIMULATION'

The IEEE Student Branch in association with the IEEE Women In Engineering (WIE) Student Branch Affinity Group and the IEEE Antennas and Propagation Society (APS) Student Branch Chapter, Ahalia School of Engineering and Technology, Palakkad conducted a webinar titled "Neural Networks and Brain Stimulation" on 23 November 2020. The session was handled by Mr. Karunasagaran P. R., Project Manager, Indian Telephone Industry (ITI), Kanjikode, Palakkad. The meeting started at 4 p.m. In the session, 38 people (15 IEEE members, 23 non-IEEE members) participated. The session covered topics like what is a neural network, why AI is going to play a major role in future applications, image recognition, understanding brain signals, etc. The session was coordinated by Ms. Arya R. Krishna (2nd year ECE) and Ms. Anjana R. (2nd year ECE)

PANEL DISCUSSION TO 'CELEBRATE INTERNATIONAL DAY FOR THE ELIMINATION OF VIOLENCE AGAINST WOMEN'

To celebrate the International Day for the Elimination of Violence Against Women, a panel discussion was organized by the Ahalia Group Academic Institutions in India on 25 November 2020



Ms. Archana Subhash
Counseling Psychologist
Head HR,
Trinity Skillworks Pvt. Ltd



Dr. Latha Nair
Project Director & ZED Consultant,
Industrial Operations Research Group
First Lady President of Rotary
Club of Palghat



Dr. Neena Joseph
Former Professor,
Institute of Management in
Government Trainer for programmes
related to Domestic Violence



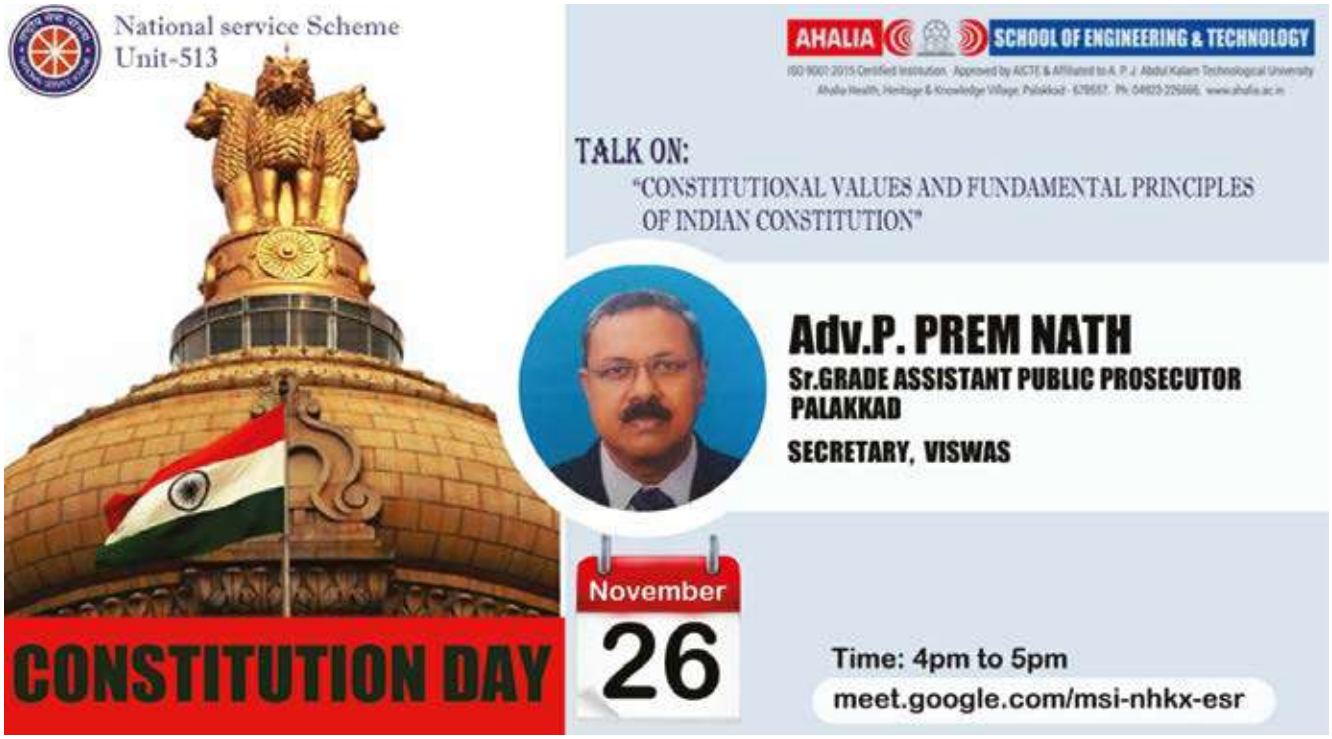
Ms. Aleyamma Vijayan
Founder & Secretary, Sakhi
Former State Convenor, Streevedi
Former Country Coordinator,
Women in Fisheries



Dr. T. K. Anandi
State Gender Advisor
Government of Kerala

SESSION ON 'CONSTITUTIONAL VALUES AND FUNDAMENTAL PRINCIPLES OF INDIAN CONSTITUTION'

The NSS unit in association with Ahalia School Of Educational Institutions, conducted a webinar on Constitutional Values & Fundamental Principles of Indian Constitution onDATE : 26th Nov 2020 for the students, scholars and teaching faculty. The session was handled by Adv. P. Premnath. Prem Nath is a prosecutor by profession, holds a degree in law with Post Graduation in Public Administration & Post Graduate Diploma in Criminology and Police Administration.At present he works as Sr.Grade Assistant Public Prosecutor in Palakkad.He is also the Secretary of VISWAS, an organisation for the rights of victims in Criminal Cases. During this session, Adv. Premnath Sir shared his knowledge on all areas regarding the topic.He discussed about the Constitutional Values and the Fundamental principles of Indian Constitution relating with best suitable real life examples which are essential for understating the topic. He projected a clear understanding of the importance of constitutional values. Soumya Sree. S (S3 Civil) gave a welcome address to the participants. The presidential address was given by Dr.P.R. Sreemahadevan Pillai (Principal ASET) followed by the keynote address by the Chief Guest Adv.P. Premnath. And after the presentation Sonu.J (3rd sem MBA) delivered the vote of thanks.



FIRST YEAR INDUCTION PROGRAM

The batch of 2020-24 was formally inaugurated on 27th November 2020 through online. The ceremony was attended by the new batch of students along with their parents, faculty, and staff of ASET. Dr.Balamurugan Hod ECE Department formally welcomed the incoming batch of students. Principal Dr.P R Sreemahadevan Pillai , emphasized on the significance of discipline in a student's life while delivering the inaugural address. Dr. Krishnakumar Kishor, Asst. Director, Academics, Ahalia Group presided over the function. Prof. Prakash Hod, Mechanical Engineering Department proposed the vote of thanks. The event concluded with the Introduction of Departments and Heads by all the Heads of Department Also students were asked to introduce themselves. Then the cultural, sports and NSS activities of ASET was briefed by Mr.Basil baby, AP, S&H, Mr. Vivek Gopi AP, ME and Mr. Roshan Shanu, AP, CSE respectively.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group



Dr. Krishna Kumar Kishor
Asst. Director, Academics,
Ahalia Group

The Two-Week online induction programme for freshers on Universal Human Values-2020 was conducted by Ahalia School of Engineering and Technology from 27/11/2020 to 08/12/2020 with the coordination of Dr. S Gunasekaran, HoD, CSE, Mr Vignesh D, AP, S&H, Ms. Preeja V, AP, S&H and Ms. Sunitha K G, AP, S&H

30/11/2020:

The day was started with a talk on 'Role of Engineers in society ' by Dr. P R Sreemahadevan Pillai, Principal, ASET and Director, Academics, Ahalia Group. The next session on 'Insight about Inside' was handled by Dr. S. Gunasekaran, HoD, CSE, ASET.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group



Dr.S.Gunasekaran
Professor, HoD - CSE

01/12/2020:

Dr. Murugananth G, HoD, EEE, ASET started the day with the talk of 'Survival on Earth' followed by the talk of Dr. Binoy Balan K, HoD,SH, ASET on 'Happiness Index'.



Dr. G. Murugananth
Professor & HoD - EEE



Dr. Binoy Balan K.
Professor & HoD - S & H

02/12/2020

The first session of the day was handled by Prof. Prakash D,HoD, ME, ASET. He gave a awareness to students about KTU Regulations. Mr. Sreeranjan Menon T, AP,ASM handled a very interactive session on the topic 'Dream to success'.



Prof. D. Prakash
HoD - ME



Mr. Sreeranjan Menon T
Asst. Professor, ASM

03/12/20

Dr. Sangeetha P, AP, ASM started the day with the talk of 'Self reflection and Mutual Respect' followed by the talk of Ms. Bindu V, AP, ASM on 'English Communication Skills'.



Dr. Sangeetha P
Asst. Professor, ASM



Mrs. Bindu Valoor
Asst. Professor, ASM

04/12/20

The first session was started with a talk on 'Self Esteem and Goal Setting ' by Mr. Vivek Gopi AP, ME. The next session on 'Soft Skill Essential for Engineers' was handled by Mr. Abhijith, Placement Officer and AP,EC, ASET.



Mr. Vivek Gopi
Asst. Professor - ME



Mr. Abhijith V.
Asst. Professor - ECE
Placement Officer, ASET

05/12/20

Dr. D. PalanivelRajan, Professor, Department of CSE, CMR Engineering College, Hyderabad started the day with the talk on 'Digital Skills for the 21st Century'. The second session on 'English Proficiency Test' was handled by Mr. Thannasi C, AP, SH and Mr. Vignesh D, AP, SH

07/12/20

Dr. Balamurugan V, HoD, EC, ASET started the first session with the talk on 'Human Values and Relationships' followed by a talk of Mr. Sathish P K,Circle Inspector of Excise, Anti Narcotic Squad, Palakkads on 'Awareness and Prevention of Drug abuse'.



Dr. V. Balamurugan
Professor & HoD - ECE

08/12/20

The first session was started with a talk on 'Cyber Security & Cyber Crime 'by Dr. Sudhorson D, AP, CSE, Hindustan College of Engg. And Tech., Coimbatore. The next session was Introduction to professional bodies (ISTE,IE(I), IEEE, IETE, CSI Chapter, SAE Environmental Chapter by ASET staff. After that Dr. S. Gunasekaran, HoD, CSE, ASET reviewed the feedback of students and gave individual student report. The programme was concluded by the valedictory address of Dr.Atmanand M A, Former Director, NIOT, Govt. of India & Visiting Professor, IIT Chennai.



Dr. Atmanand M. A.
Former Director, NIOT, Govt. of India & Visiting Professor, IIT Chennai

WEBINAR ON 'CATALYST – ROLE OF TEACHERS IN PROMOTING INNOVATION AND ENTREPRENEURSHIP'

A webinar on "Catalyst" was organized by Innovation and Entrepreneurship Development Centre (IEDC) – ASET, Palakkad in association with Institution's Innovation Council (IIC) on 10.12.2020 by Mr. Sherin Sam Jose, CEO, TBI, Amal Jyothi College of Engineering. 55 faculties attended the program. The talk mainly emphasized on attitudes and mindset to promote entrepreneurship among students and the various steps to be followed by the teachers to inculcate an innovation culture amongst the students. The talk inspired the teachers to have an open minded approach towards their students especially an approach as that of a mother. Mr. Roshan Sanu (AP/CSE) proposed the vote of thanks. Mr. Anil M. (AP/ME) and Ms. Lakshmy Suresh (AP/EEE) were the overall coordinators of the event.



Sherin Sam jose

WEBINAR ON CYBER SECURITY

The Department of Electronics and Communication Engineering in association with the IEEE Student Branch, IEEE Antennas and Propagation Society (APS) SBC and IEEE Women In Engineering (WIE) SB AG, Ahalia School of Engineering and Technology, Palakkad organized a webinar session titled 'Cyber Security' on 16 December 2020. The session was handled by Mr. Karaunasagaran P. R., Project Manager, Indian Telephone Industry (ITI), Kanjikode.

PUBLICATIONS IN JOURNALS

List of research publications from Faculty members

Name of Faculty	Article Title	Name of the Journal/ Conference
Kripa K M, Hod , CE Divya Das, S8 CE Student, Aset Priyanka T, S8 CE Student, Aset	Determination of optimum parameters of porous concrete for adequate strength and permeability	National Conference on Recent Advancements in Civil Engineering Research 17 - 19th August 2020 ISBN 978-93-5406-803-4
Kripa K M Hod , CE Jacob George, S7 CE Student, Aset S M Sabareesh, S7 CE Student Aset Anju G , S7 CE Student Aset	Housing to empower slum residents	
Akhila Krishnan, AP,ECE V. Balamurugan, HoD.ECE Anjana Krishnakumar, S8 ECE Student Aset Aparna A.,S8 ECE Student Aset	Design of Low Power High Speed Full Adder Circuits Using XOR-XNOR Topology	International Research Journal of Engineering and Technology (IRJET) vol. 7, issue 5
Divya Mohan, AP,ECE Murugananth Gopal Raj,HoD,EEE	Quality Analysis of Rice Grains using ANN and SVM	Journal of Critical Reviews, vol. 2, issue 2
Anand Haridas,AP,CSE Mrudula R., S8 CSE Student Aset Bavitha B., S8 CSE Student Aset Clincy Baby,S8 CSE Student Aset Aswathy M.,S8 Cse Student Aset	Blockchain Based Crowd Funding for Startups	International Journal of Scientific Research & Development (IJSRD), vol. 8, issue 3

LIST OF PRESENTATIONS IN THE CONFERENCES,FDP & WEBINAR BY THE FACULTY MEMBERS

Guest lecture delivered by our faculty

Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an invited lecture on “Information Technology in Civil Engineering” on 21-12-2020 in the National Conference on Civil Engineering organized by NSS College of Engineering, Palakkad.

DR S. Gunasekaran Professor & Head CSE Department Ahalia School of Engineering and Technology, Palakkad, shared his expertise as resource person in AICTE sponsored Six Days Online Short Term Training Programme (STTP) on Al enabled Augmented Analytics for Business Intelligence–AI2ABI 2020 Phase III " on 11- 12- 2020. on **"** Machine Learning for Augmented Data Analytics" at CMR Iinstitute of Technology**,** Bengaluru.

Dr. G. Murugananth Professor & Head, EEE Department, Ahalia School of Engineering and Technology, Palakkad.

1. Handled Sessions on IoT Enabling Technologies, in the AICTE Sponsored STTP organized by the Department of Computer Science and Engineering, KSR Institute of Engineering & Technology, Tiruchengode on 16-11-2020 & 07-12-2020.

2. Delivered Lecture on the topic “Real World Project Skills and Negotiation”, in the AICTE – STTP on “Embedding Soft Skills in Technical Education”, organized by the Department of Instrumentation and Control Engineering, GRG Polytechnic College, Coimbatore on 18-11-2020.

3. Delivered a Lecture on the topic, :Innovative Engineering Design”, in the two day workshop on “Design & Engineering for Automotive Engineers”, organized by the Department of Automobile Engineering, Hindusthan Institute of Technology on 24-11-2020.

4. Delivered Lecture on, “Survival on Earth”, in the Universal Human Values programme organized by Ahalia School of Engineering & Technology, on 1st December 2020.

5. Presented a case study , “A Case study presentation of machine learning for battery optimization & range prediction”, as Resource Person for the five day AICTE Sponsored FDP on Recent Trends in Electric Vehicles, organized by the Department of Electrical and Electronics Engineering, IFET Engineering College, Villupuram, Tamilnadu on 03-12-2020.

Ms. Sangeetha, AP S & H Department Presented a Paper on Heat Transfer Between Parallel Plates in Presence of Nano Fluid and Variable Magnetic Field with Uncertain Bounded parameters at VIT-AP University 5th International Conference on Applications of Fluid Dynamics – ICFAD 2020 (An Online Conference Dec13-15,2020) organized by School Of Mechanical Engineering VIT-AP University, India In Association with Department of Mechanical Engineering Science,Faculty of Engineering and The Built Environment, University of Johannesburg, South Africa.

PARTICIPATION IN FDPS WORKSHOPS AND WEBINARS

List of staff participations in FDPs and workshops/Webinars

Dr.V. Balamurugan, Hod ECE Departement participated in the webinar on SIGNAL PROCESSING APPLICATION USING TI C6000 DSP on 15 October 2020.. organised by IETE and KMCT College of Engineering.

Dr.V. Balamurugan, Hod ECE Departement participated in the webinar on Multiconductor Transmission-Line Theory and its Applications to Modern Metamaterials' organised by MTTS Kerala Section, IEEE MTTS and APS Government Engineering College Bortan Hill,Thiruvananthapuram on 31October 2020.

Dr.V. Balamurugan, Hod ECE Department participated in the "International Workshop on Numerical and Analytical Techniques in Engineering Problems" WNATEP - 2020, organized by the Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India during 12th and 13th November 2020

Dheeraj P, Assistant Professor- ME Departement Participated in the webinar Innovation & Design Thinking organized by Department of ME,Sri Ramakrishna Institute of Technology

Sathish Kumar R K, Assistant professor –ME Department Participated in the webinar Achieving Lifetime Employability organized by IEEE Photonics Society Student Chapter, Mangalam College of Engineering, Kottayam, Kerala

Dhanesh S, Assistant Professor, ME Department attended a workshop on Plastic Poluttion Control organized by Unnat Bharat Abhiyan-ASET Chapter

Kripa K M, Hod CE Department, Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

Kripa K M, Hod CE Department, Participated in the webinar on HOW TO MAXIMIZE EMPLOYMENT POTENTIAL WHILE GRADUATING IN CORONA TIMES organized by by KTU

Kripa K M, Hod CE Department Participated in the webinar on APPLICATION OF ARTIFICAL INTELLIGENCE TO PREDICTION OF PROPERTIES OF CONCRETE. Organized by ICI Ghaziabad Centre in association with Ultra Tech Cement Pvt Ltd.

Indu M, Assistant Professor –CE Department Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

Neethu John Assistant Professor –CE Department Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

Gopika Unni, Assistant Professor –CE Department Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

Lakshmi Sai, Assistant Professor –CE Department Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

Sruthi Ravindran, Assistant Professor –CE Department Participated in the Webinar on Space for Healthy Leaving Organized By Jyothi Engineering College,Thrissur

STAFF ACHIEVEMENTS - COURSERA COURSE COMPLETION BY STAFF

Name of Faculty	Name of the Course	Organizer
AKHIL N V , Assistant Professor – CSE Department	Google Cloud Platform Fundamentals: Core Infrastructure	Google Cloud
	Elastic Google Cloud Infrastructure: Scaling and Automation	
	Essential Google Cloud Infrastructure: Foundation	
	Reliable Google Cloud Infrastructure: Design and Process	
	Architecting with Google Compute Engine(Specialization certificate for Google Associated Cloud Engineer)	
Sreerag B M, Assistant Professor – CSE Department	An Introduction to Interactive Programming in Python	Rice University
	Text Retrieval and Search Engines	Illinois university
	R Programming	John Hopkins
	AI For Everyone	Deeplearning.ai
	Introduction to Machine Learning	Duke University
Krishna kumar C, Assistant Professor – CSE Department	Python for Everybody	University of Michigan
Roshan Sanu.Y , Assistant Professor – CSE Department	Cyber security and Internet of Things	Kennesaw University
	Introduction to Virtual Reality	University of London
	Introduction to HTML5	University of Michigan

	AI for Everyone	Stanford University
	An Introduction to Interactive Programming in Python	RICE University
Aswathy P V, Assistant Professor – CSE Department	The Data scientists toolbox(Data science specialization)	John Hopkins
	R programming	
	Getting and cleaning data	
	Programming for everybody (getting started with python)	Michigan university
Anand Haridas , Assistant Professor – CSE Department	Block chain technology	coursera
Sruthy Sukumaran , Assistant Professor – CSE Department	The Data scientists toolbox(Data science specialization)	John Hopkins
	R programming	
	Write Professional Emails in English	
	Programming for everybody (getting started with python)	Michigan university
DR.S.Gunasekaran, HoD CSE Department	The Data scientists toolbox(Data science specialization)	John Hopkins
Aneesh K, Assistant Professor – ECE Department	Learning to teach online	UNSW Sydney
	Write professional Emails in English	Georgia institute of technology
	Understanding Research methods	University of London
	Learning how to learn	Mac master University
Dr. Krishna Kumar Kishor, Associate Professor ECE Department	Python Data Structures	Coursera
	Financial Markets	
	Foundations of Everyday Leadership	
	Introduction to the Internet of Things and Embedded Systems	
	Applications of Everyday Leadership	
	The Arduino Platform and C Programming	
	AI For Everyone	
Dhanesh S A, Assistant Professor – ME Department	Material Processing	Georgia Tech
	Material Scine:10 Things Every Engineer Should Know	UC Davis-Coursera
	Programming for Everybody(Getting Started with Python)	University of Michigan
	Introduction to Thermodynamics: Transferring Energy from Here to There	
	Mechanics of Materials1:Fundamentals of Stress & Strain and Axial Loading	Georgia Tech-Coursera
	Protecting the World: Introducing Corrosion Science and Engineering	The University of Manchester

Anil M, Assistant Professor – ME Department	Introduction to Thermodynamics: Transferring Energy from Here to There	University of Michigan
Dheeraj P, Assistant Professor – ME Department	Programming for Everybody(Getting Started with Python)	University of Michigan
Sathisk Kumar RK, Assistant Professor – ME Department	Grammar and Punctuation	University of California Irvine, Division of Continuing Education
	Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep	Autodesk
	Engineering Systems in Motion: Dynamics of Particles and Bodies in 2D Motion	Georgia Institute of Technology
	Six Sigma Yellow Belt Specialization Course 1, Six Sigma Principles	University System of Georgia - Kennesaw State University
	Six Sigma Yellow Belt Specialization Course 2, Six Sigma Tools for Define and Measure	
	Six Sigma Yellow Belt Specialization Course 3, Six Sigma Tools for Analyze	
	Six Sigma Yellow Belt Specialization Course 4, Six Sigma Tools for Improve and Control	
	Six Sigma Yellow Belt Specialization Certificate	
	Machine Design Part I	Georgia Institute of Technology
	Write Professional Emails in English	Georgia Institute of Technology
Subin B Markose, Assistant Professor – ME Department	AI for everyone	Deep learning.
	Supply chain analytics	Rutgers university
	Programming for everybody	University of Michigan
Vignesh V, Assistant Professor – ME Department	intelligent machining	State University of New York
	Digital Manufacturing and Design	
	Safety in the Utility Indutry	University at Buffalo
Vivek V, Assistant Professor – ME Department	Materials Processing	Georgia Institute of technology
	Food & Beverage Management	Bocconi *University*
	Project Management: The Basics for Success	University of California, Irvine
	Materials in Oral Health	The University of Hong Kong
	Materials Science: 10 Things Every Engineer Should Know	University of California
	Bacteria and Chronic Infections	University of Copenhagen
GOPIKA UNNI, Assistant Professor – CE Department	Work smarter not harder: Time management for personal and professional productivity	University of California
	Moralities of Everyday Life	Yale University
	Healthy Practices: Nutrition, Physical activity, and Community and Family Participation	University of Colorado

KRIPA K M, Hod CE Department	Think again I: How to understand arguments	Duke University
	3 D printing applications	University of Illinois
	Introduction to Engineering Mechanics	Georgia Institute of Technology
	Mechanics of materials I: Fundamentals of Stress, Strain and Axial loading	
	Applications in Engineering Mechanics	
	Mechanics of materials IV: Deflections, Buckling, Combined Loading & Failure Theories	
	Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion	
	Mind Control: Managing Your Mental Health During COVID-19	Toronto University
	Mechanics of Materials III:Beam bending	Georgia Institute of Technology
	Biostatics & Design of Experiments	IIT Madras
	Natural Hazards	IIT Kanpur
	Characterization of Construction materials	IIT Madras

ചെറുകഥ മഴയുടെ സൗന്ദര്യം

ഒരു നല്ല മഴയുള്ള ദിവസം, പാടത്തിന്റെ വരമ്പത്തിലൂടെ ബാല്യ കാലസ്മരണകൾ അയവിറക്കി അവൾ നടക്കുകയായിരുന്നു. അമ്പലക്കുളവും നാഗാക്കവും എല്ലാം പഴയപോലെതന്നെ ഒരു മാറ്റവും ഇല്ല അവൾ ചിന്തിച്ചു. മുൻപ് സ്കൂൾ അവധിക്കായിരുന്നു അവൾ ഇവിടെ വരാറുള്ളത്. തറവാട്ടിൽ അവളും അമ്മൂമ്മയും മാത്രമുള്ള ആ ദിവസങ്ങൾ അവൾക്ക് പ്രിയപ്പെട്ടതായിരുന്നു. കുളത്തിലെ കുളിയും, കൂട്ടികളുമായയുള്ള കളികളും അവൾക്ക് വളരെ ഇഷ്ടമായിരുന്നു. അമേരിക്കയിലെ ജോലിതിരക്കിനിടയിലും അവളുടെ അച്ഛനും അമ്മയും അവൾക്ക് നാട്ടിലെ സംസ്കാരവും പൈതൃകവും പറഞ്ഞു കൊടുക്കുമായിരുന്നു. എല്ലാ അവധിക്കും അവർ അവളെ നാട്ടിലേക്ക് പറഞ്ഞു വിടും. നാടിന്റെ സംസ്കാരവും, അവിടുത്തെ മനുഷ്യരെയും കണ്ടും, അനുഭവിച്ചും വളർണമെന്ന് അച്ഛൻ എപ്പോഴും അവളോട് പറയുമായിരുന്നു. മാത്രമല്ല നാട്ടിലെ മധുരമുള്ള മാമ്പഴവും അവളെ ആകർഷിച്ചു. "ഇത്തവണ നല്ല മഴയാ എങ്കിലും ഭൂമിയേ കാണാൻ എന്തു ഭംഗിയാ ലെ അമ്മൂമ്മേ " അവൾ ചോദിച്ചു. "അത് അങ്ങനെയാ അവളാണ് പ്രകൃതി. അവൾ സുന്ദരിയാ.ഇപ്പോ ഏത് രൂപത്തിൽ വന്നാലും നമ്മൾക്ക് അവളെ ഇഷ്ടമാവും"."നാട്ടിലെ ഉത്സവം എല്ലാം തന്നെ എന്ത് രസാ ലെ അമ്മൂമ്മേ ആനകളും കൊട്ടും എല്ലാം ആയിട്ട് ആരാണ് ഇതിനൊക്കെ തുടക്കം കുറിച്ചേ...? "അതൊക്കെ പണ്ട് രാജാഭരണ കാലം തൊട്ടേ ഉള്ളതാ മോളെ " അവർ പറഞ്ഞോ അപ്പോ ആന ഒക്കെ വേണന്ന്? "എനിക്കൊന്നും അറിയില്ല നീ ഒന്ന് മിണ്ടാതെ ഇരിക്കുന്നുണ്ടോ ഒന്ന് കിടക്കവെച്ച അത്നും സമ്മതിക്കില്ലേ? "അമ്മൂമ്മ ഇതും പറഞ്ഞു വിശറി വീശി കിടന്നു.. അവളുടെ മനസ്സിൽ സംശയത്തിന്റെ ഒരു കൂമ്പാരം തന്നെ ഇണ്ടായിരുന്നു. വൈകുന്നേരം കൂട്ടികൾ വരും കളിക്കാൻ മീൻ പിടിക്കണം, കുളത്തിൽ കളിക്കണം അങ്ങനെ എത്രയെത്ര രസമുള്ള കളികളാണ് ഇവടെ ഉള്ളത്. ഇടിവെട്ടി മഴപെയ്യുന്ന രാത്രിയിൽ അവൾ അവളെ തന്നെ പുതപ്പിനടിയിൽ ഒളിച്ചു വെക്കും.. പേടിയാണ് അവൾക്ക് മിന്നലിനെ. എങ്കിലും അവൾ അതിനെ ഇഷ്ടപെടുന്നു. ഇതും ആലോചിച്ചു ഇരിക്കുമ്പോൾ ആണ് അമ്മൂമ്മ ഇണ്ടാക്കിയ ഉപ്പിലിട്ട മാങ്ങയുടെ കാര്യം അവൾക്ക് ഓർമ വന്നത്, കൂട്ടുകാർ വരട്ടെ എല്ലാർക്കും കൂടി ഒരുമിച്ചു കഴിക്കാം എന്ന് അവൾ വിചാരിച്ചു. വൈകുന്നേരം ആയി എല്ലാരും ഓടി എത്തി കളിക്കാൻ. കളി ചിരി ബഹളങ്ങൾ മാത്രം. പെട്ടന്ന് പറഞ്ഞു വച്ചതുപോലെ നല്ല കാറ്റ് വിശാൻ തുടങ്ങി. അപ്പുറത്തെ വീട്ടിലെ ശാരദ ചേച്ചി അപ്പുനെ വിളിച്ചു "അപ്പൂ... മതി കളിച്ചത് മഴ വരാൻ പോവാ വേഗം വീട്ടിലേക്ക് വാ.. "എല്ലാരും കളി നിർത്തി വീട്ടിലേക്കോടി. അവർ മാത്രംമല്ല പക്ഷികളും, മൃഗങ്ങളും..., കഷ്ടം അവരുടെ ഉപ്പു മാങ്ങാ കഴിക്കാനുള്ള മോഹം മഴയിൽ അലിഞ്ഞു പോയി എന്ന് പറഞ്ഞാ മതിയല്ലോ ! മുറിയിൽ നിന്നും അമ്മൂമ്മ ഉറക്കെ വിളിച്ചു പറയുന്നുണ്ടായി രുന്നു " മോളെ അച്ഛൻ വിളിച്ചിരുന്നു നാളെ നിന്നെ കൂട്ടികൊണ്ട് പോവാൻ വരുന്നുണ്ട് എല്ലാം സാധനങ്ങളും എടുത്ത് റെഡി ആയി ഇരുന്നോളാൻ പറഞ്ഞു " സമയവും ദിവസങ്ങളും എത്ര പെട്ടന്നാണ് പോവുന്നത് അവൾ ചിന്തിച്ചു. ആ രാത്രി മുഴുവൻ മഴ നിർത്താതെ പെയ്തുകൊണ്ടേയിരുന്നു. "മഴയുടെ സൗന്ദര്യം " ആസ്വദിച്ച് അവളും....



Story by

ANJANA RAMADAS
S3 ECE

ചുണ്ടിലൊളിപ്പിക്കാൻ എന്നുമൊരു പുഞ്ചിരിയുണ്ടെങ്കിൽ
ജീവിതത്തിൽ ആസ്വാദനകുറിപ്പിന്
വരികളെന്തിന് ?
നഷ്ടപെടുത്തുവാനായ്
പരസ്പരം കണ്ടുമുട്ടിയവരാണ് നമ്മൾ ,
നീ നഷ്ടപെടുത്തിയതും ,എനിക്ക് ,
നഷ്ടമായതും
എന്തെത്തെന്നെയാണ് !!!



വിസ്മയ ആർ
S7 CSE

തുണ (കവിത)

എരിഞ്ഞുകാത്തുമാ കനലിന്റെ ചൂടിലും
നിനക്കു കാവലായ് എത്തുമവൾ.....
ആഞ്ഞു വീശുമീ കാറ്റിൻ കരുത്തിലും
നിനക്കു കാവലായ് മാറിയവൾ.....
അമ്മയെന്ന രണ്ടക്ഷരമല്ലിവൾ..
നിൻ സിരകളിൽ കത്തിജ്വലിക്കും രക്തമാണിവൾ.....
ഭ്രൂണം മുതൽക്കേ... നീ ശിശുവായ് വരും വരെ...
കാവലിരുന്നവൾ നിന്റെ വരവിനായ്..
കൈകളും കാൽകളും വളരുംന്നിടംതൊട്ട്
സ്ത്രീയെന്ന രൂപമായ് മാറുന്നിടം വരെ..
നിനക്കു കാവലായ് നിന്നവൾ...

മകളേ..... അമ്മയാം ദേവിയെ...
നീ... അറിയുക....
ദേവിയായ്... ഭദ്രകാളിയായ്...
നിന്നെ കാത്തവളെ...
നീ.. അറിയുക..
അവൾ.. ചുടലയിൽ വെണ്ണീറാകുംവരെ...



Arya R Krishna
S3 ECE

DID YOU EVER WONDER ?

When you laugh here,
There is some one crying out there
While you eat to your fill here,
There is someone praying for a morsel out there
When you get furious about something here,
Some one bears the burst of anger,
Some where out there
Did you ever wonder ?
When you spend money effort lessly here
There is some one,
Clutched in the jaws of poverty out there
When you discard the genial past that lovingly moulded you
There are even those scarred by it
So, think of those deprived,
Don't get carried away by the miserly and Materialistic tide
Take time to thank Him...
He who gave you all that your heart desired



Megha j das,S5 ECE

ചിതലരിക്കാത്ത ചിലത്

ചിറകടിച്ചുയരുന്ന പക്ഷി നിനക്കറിയുമോ
ചിതകത്തി തീർന്ന മരത്തിൻ ചിതലേറി തളർന്നൊരെൻ ഓർമകളെ.
ഒരുപക്ഷേ
അവയ്ക്കൊരു ചിതൽ പ്രാണിതൻ ആയുസ്സാവാം
പക്ഷേ
ഒരു ചിതൽപുറ്റായി പടർന്നതാവാം.
മരണത്തിൽ ആത്മവ്യതി തേടുമർത്യ നിന്നാത്മാവു മരണമില്ലാതലയുന്നതും വ്യഥ.
സമയമിന്നകലുന്നുവോ?
സദാസമയവും സമയത്തിൻ പിന്നാലയോ?
രണ്ടുണ്ട് ചലനമറ്റവ അതിൽ
ചലനവും പേറി നടക്കുന്ന സൂചിയും.
കാലം ചക്രം പോൽ ഉരുളുന്നുവോ
അതു കാലന്റെ വേഗം കുറയ്ക്കുന്നുവോ?
ജീവിതമൊരു പാഠപുസ്തകമാവുകിൽ ചിലതൊക്കെ ചീന്തി വലിച്ചു കീറാം
ചില ഏടുകൾ മറിച്ചുപോകാം ജീവിത-
ചിരകാല സ്വപ്നങ്ങൾ ഇന്നു ചിതലരിച്ചതാവാം. എങ്കിലും ജീവിതം ഒന്നുമാത്രം.
എത്ര ഞാനെൻ നൻമയെ തേടി കിതപ്പൂ
എങ്ങനെ തിൻമയെ വെറുപ്പൂ
എവിടെ തളരറ്റു വീണുവോ?
എല്ലാമറിയുന്നു എൻ പ്രാണനെന്നും അവസാനിക്കുന്നൊരു പിടി മണ്ണിൽ മാത്രം.
കത്തിയമരുന്നീ ചൂടുതീയിൽ
എരിയുന്നെൻ മഴപ്പാറ്റകൾ വാടിയെൻതുളസിചെടിയിന്നു വെറും മിഥ്യപ്രതിബിബമോ
അതോ കള്ളിമുൾചെടികൾക്കു സ്വന്തമായ മരുഭൂമിയോ.
കരയാനിനി കണ്ണിരില്ല കണ്ണിൽ
കണ്ണുനീർ പോലും ബാഷ്പമായകലെയകന്നു. ആനന്ദവും പേറി തെറിച്ചൊരാകണമിന്നു
അന്ധമായൊരനർഘനിമിഷമെൻ അന്ത്യമുറക്കുപാട്ടായിമാറി.
അതിന്നകലെയല്ല
അടുത്തുമല്ല
അതു ഞാനായി മാറി.
മാനിഷാദാ
നിന്നെ അറിയേണ്ടതു രത്നാകരനായിട്ടല്ല
ഇന്നു
ചിതൽപുറ്റിൽ വഹിക്കുമൊരു വാല്മീകിയായി
ഓർക്കുക
ചിതലരിക്കാതെ ചിലതുണ്ട് ചിതലരിച്ചതിൻ ഓർമയ്ക്കായി...



Soumya R
S5 CE

സൗഹൃദം

വീണ്ടും വരുമോ കഴിഞ്ഞു പോയ വസന്തം
ഹൃദയത്തിൻ ആഴക്കടലില്ലെ മുത്തുക്കൾക്കായ്....
ഹൃദയത്താൽ കോർത്ത പുസ്തകത്താഴിൽ..
സ്നേഹത്തിൻ ഭാഷ പകർത്തുവാനാകുമോ....
ഇനിയുമാകുമോ ഇടവേള കാലവർഷത്തിൽ...
ഈറനണിഞ്ഞ് ചുടു സന്ദേശങ്ങൾ പകരുവാൻ....
കാലം എന്ന നീചൻ അകറ്റിയില്ലെ ഓർമകളെ...
തിരിച്ചു നൽകു എന്റെ യൗവ്വനം.
പെറ്റുപെരുകുമെന്ന് സൂക്ഷിച്ച മയിൽപ്പീലികൾ
മാത്രമായ് എൻ ഓർമകളെ തഴുകുവാൻ....
സന്തോഷം എന്നതിനു സമാനമായ നാണയങ്ങൾ
പാഠശാലയിൽ നാം വഴക്കിട്ടു പങ്കു വെച്ച പലഹാരങ്ങൾ.
തേനൂറും മായാജാലമായ് ഇന്നും മനസ്സിൽ എഴുതി തീരാ
ദീർഘകാവ്യമായ് ഓർമകൾ അലയുന്നു...
കളവും കുസൃതിയും നിറഞ്ഞ അവധികൾ
ഇനിയും സൃഷ്ടിക്കാനാകുമോ.. മധുരനൊമ്പരങ്ങൾ..
കൂട്ടംകൂടി പരിഹസിച്ചും കളിച്ചും ചിരിച്ചും....
ഇനിയും ലഭിക്കുമോ മറക്കാനാവാത്ത എന്റെ സ്വപ്നനലോകം
കാലമേ തിരിച്ചു നൽകുമോ കഴിഞ്ഞ കാലം..
കൊതിയേറുന്നു ഇനിയും കാലങ്ങൾ ഒരുമിച്ചു

സൗഹൃദം പങ്കിടാൻ.....



Hariprasad
S5 ECE









Artwork by chelsea
S7 ECE





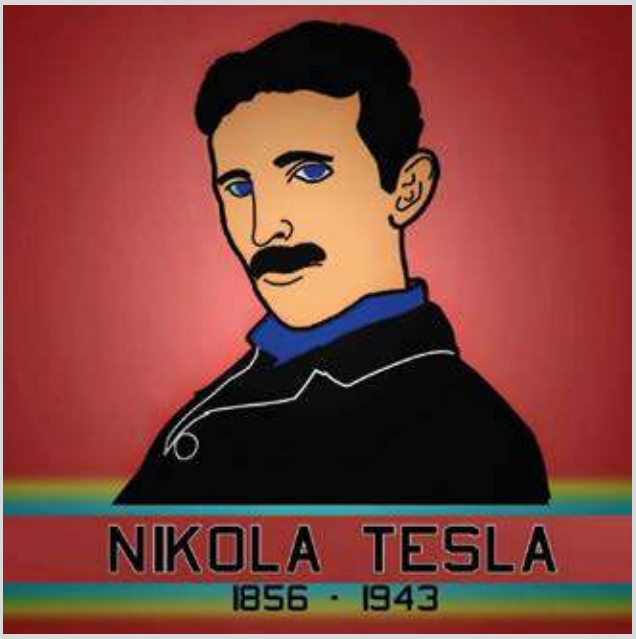


Aiswarya K
S5 CSE



Amitha Mohandas
S7 CSE

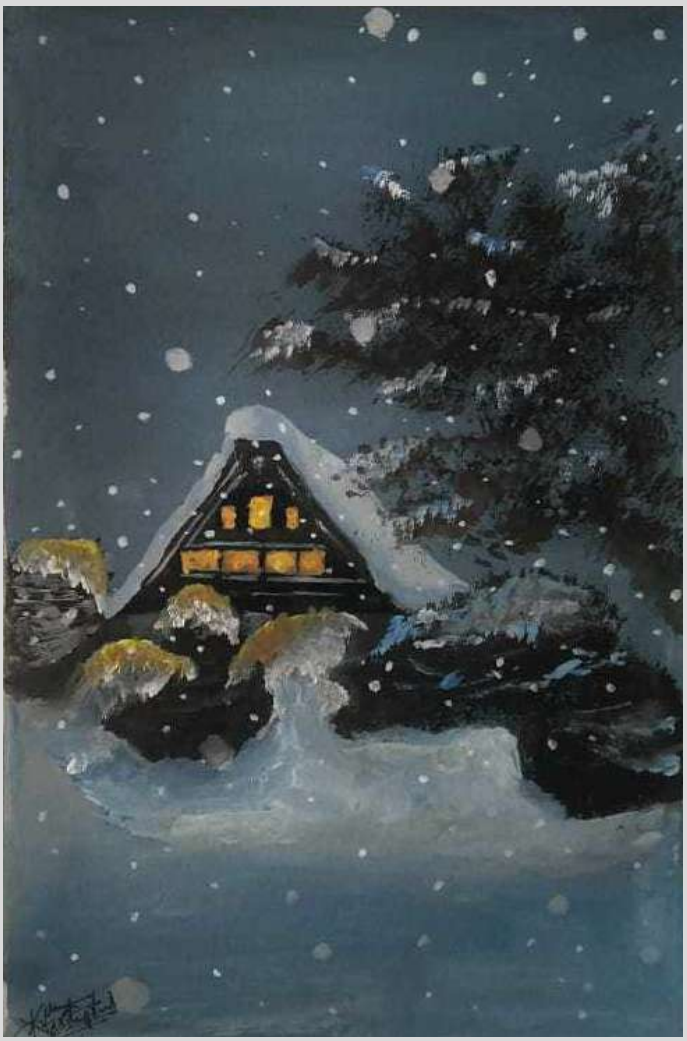




Hariprasad
S3 CSE



Kezia Aliya Peter
S3 civil







Thahaseen
S7 CSE





Vishnu S
S3 ECE



Selman
S3 CSE

HAPPY

NEW YEAR 2021



A Monthly Newsletter of Ahalia School of Engineering and Technology

Vol 6 Issue 4
April 2021

ASET NEWS



AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

ISO 9001:2015 Certified Institution. Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
Ahalia Health, Heritage & Knowledge Village, Palakkad - 678557. Ph: 04923-226666, www.ahalia.ac.in

PRINCIPAL'S MESSAGE

World Engineering Day for Sustainable Development 2021



Dr. P. R. Sreemahadevan Pillai
Principal

The World Engineering Day for Sustainable Development was proclaimed by UNESCO at its 40th General Conference in 2019. It is celebrated worldwide on 4th March each year since 2020. The day offers an opportunity to highlight engineers and engineering's achievements in our modern world and improve public understanding of how engineering and technology are central to modern life and for sustainable development. The World Engineering Day 2021 (WED2021), with the theme "Engineering for A Healthy Planet- Celebrating the UNESCO Engineering Report", focused on celebrating the launch of the 2nd UNESCO Engineering Report "Engineering for Sustainable Development: Delivering on the Sustainable Development Goals". Ten years after the publication of the 1st UNESCO Engineering Report, "Engineering: Issues, Challenges and Opportunities for Development", the new report highlights the crucial role of engineering in delivering the 2030 Agenda for sustainable development; shows how inclusive and gender equitable engineering profession can bring about new perspectives and thus respond to the shortage of engineers; showcases of engineering innovations for implementation of the SDGs; analyses the progresses in and challenges in engineering education and capacity building; summarizes the regional trends of engineering development. It gives recommendations for developing engineering for the SDGs and calls for global cooperation with multiple stakeholders to promote development of engineering for the SDGs.

World Federation of Engineering Organizations (WFEO), together with its members and partners, celebrated the World Engineering Day. In India, the Institution of Engineers (India) took up this mission. An international day with coordinated celebrations across the world is an opportunity to increase the profile of engineering. The Day is also an opportunity to engage with government and industry to address the need for engineering capacity and the quality of engineers around the world and develop strategic frameworks and best practices for the implementation of engineering solutions for sustainable development. The celebration of World Engineering Day is also about promoting engineering as a career and how it is an opportunity to change the world for better. There is a great deal to be done specially to achieve the UN Sustainable Development Goals in developing countries to ensure that everyone has access to clean water, sanitation, reliable energy, and other basic human needs. In all countries, there is also a great deal to be done – to deal with the impacts of climate change, environmental issues, our growing cities and the challenges of new technologies including artificial intelligence. There are many opportunities and the Day can be used to engage with young people and say "If you want to change the world for the better, become an engineer".

EDITORIAL BOARD

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Akhildas M - S7, EEE
Adithya M - S7, ECE
Joel Bright - S7, ME

AHALIA GURUVANDANAM 2021

Ahalia School of Engineering & Technology, along with the other Ahalia academic institutions, organized the Guruvandanam programme, to honour the Principals and teachers from higher secondary schools in Palakkad district .Though COVID-19 pandemic has posed a lot of challenges to the mankind, health professionals and teachers extended dedicated work even during these tough times. We would like to take this opportunity to salute your selfless deeds towards bettering the lives of students - the future of our nation. In the event Principal, Vice Principal and Teachers from our college visited selected schools in Palakkad district and honoured Principals, teachers of various schools in Palakkad with mementos, certificates and gifts.



Guruvandanam Program held at **B E M Higher Secondary School, Palakkad,** to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai - Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prof. Prakash D. - Professor & HoD, ME, Mrs. Bindu Valoor, Manager- Academics Outreach, Mr. Sreejith. P. B - PRO, visited the school and honoured the Principal, and staff and felicitated.



Guruvandanam Program held at **MES Higher Secondary School, Olavakkode, Palakkad,** to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai - Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prof. Prakash D. - Professor & HoD, ME, Mrs. Bindu Valoor, Manager- Academics Outreach, Mr. Sreejith. P. B - PRO, visited the school and honoured the Principal, and staff and felicitated.

CONGRATULATIONS

Ms. Deeshma. B has been offered placement in Tata Consultancy Service as Assistant System Engineer. Congratulations..!



Deeshma B
2017 - 2021 CE

ALUMNI NOW JOINED IN AHALIA



Haritha. K
B. Tech, 2015 - 19, CE
GRE, UAE



Anjali. M
B. Tech, 2015 - 19, CSE
GRE, UAE



Mohd. Shareef. A
B. Tech, 2013 - 17, ME
GRE, UAE



Ajay. C. M
B. Tech, 2016 - 20, CSE
GRE, UAE



Anugrah. C. K
B. Tech, 2014 - 18, CE
Jr. Civil Engr, PMO



Aswin. A
B. Tech, 2016 - 20, ME
Jr. Mechanical Engr. PMO



Vivek. V. S
B. Tech, 2014 - 18, CE
Asst. Prof - CE
ASET



Prajith P
B. Tech, 2014 - 18, ME
Teaching Asst. - ME
ASET



Reshma. R
B. Tech, 2016 - 20, CE
Teaching Asst. - CE
ASET

RECONFIGURABLE ANTENNAS



Dr. Krishna Kumar Kishor
Vice Principal - ASET
Asst. Director - Ahalia Group of Academic Institutions

Antennas, commonly found in mobile devices, satellites, cellular towers, radio stations and smart devices, are fundamental components of a wireless communication system. These operate by converting the alternating voltages and currents in their feeding network (such as transmission lines or co-axial cables) to electromagnetic waves (when an antenna acts as a transmitter) or vice-versa (when an antenna acts as a receiver). In this sense, an antenna can be thought of as a transducer that converts electromagnetic or radio-frequency (RF) energy to electrical energy. The topic of antennas (covering aspects such as basic antenna parameters, various types of antennas and their working, antenna arrays, design, testing and validation of antennas) is quite vast and broad and is covered in various text books, journals and articles online. This topic is also a part of the Electronics and Communication Engineering syllabus in KTU.

Most antennas that are available in the market are passive antennas, meaning, once they are designed and fabricated, these antennas operate in a specific pre-decided manner. In other words, the antenna radiation characteristics (e.g. beam pattern), the frequency of operation and polarization of such antennas do not change when deployed for a real-world application. This inability of an antenna to adapt to real-time changes in the wireless environment (e.g. a mobile phone user moving from one point to another) poses some limitations to the performance of wireless systems such as 5G or 6G communication systems.

Reconfigurable antennas is a broad term that refer to antennas that are capable of changing their properties (such as radiation characteristics) to match the real-time demands of the user or the changing environment. How is this reconfiguration achieved? This is primarily done through devices such as RF microelectromechanical systems (MEMS), PIN diodes, varactor diodes, photo-conductive elements and liquid crystals. These devices work by changing the geometry of the antennas, or more specifically, by changing the current distribution on the surface of the antenna.

The advantages of reconfigurable antennas include improved signal-to-noise ratio, reduced interference or cross-talk between users and more efficient use of the frequency spectrum. However, there are some disadvantages, which include increased system complexity and cost. Nevertheless, the benefits outweigh the challenges posed and reconfigurable antennas are increasingly being deployed in recent technologies and will continue to play an important role in next generation wireless systems such as 6G, adaptive MIMO systems, software defined radio and satellite communications. The interested reader can go through the references below for more information.

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1. Jennifer T. Bernhard, Reconfigurable Antennas, Morgan & Claypool, 2007, doi: 10.2200/S00067ED1V01Y200707ANT004

2. R. L. Haupt and M. Lanagan, "Reconfigurable Antennas," in IEEE Antennas and Propagation Magazine, vol. 55, no. 1, pp. 49-61 Feb. 2013, doi: 10.1109/MAP.2013.6474484.

3. Samsung Research, "6G: The Next Hyper-Connected Experience for All," [Online]. Available: https://cdn.codeground.org/nsr/downloads/researchareas/20201201_6G_Vision_web.pdf.

MARCH 8: INTERNATIONAL WOMEN'S DAY

International Women's Day (IWD) is a global event celebrated annually on March 8 to commemorate the cultural, political, technical and socio-economic achievements of women. It is also a day to bring attention to issues such as gender equality, women's rights, social status and violence against women.



Kripa. K. M
HoD - CE

The history of women's day dates back to 1908, when there was a critical debate amongst women regarding their oppression and inequality. The campaign for change became more vocal when 15,000 women marched through New York City demanding shorter hours, better pay as well as voting rights. In 1909, the first Women's Day was observed across the United States. In 1910, the International Conference of Working Women was held in Copenhagen, where the idea for women's day was proposed by Clara Zetkin, a leader of the Women's Office for the Social Democratic Party in Germany. In 1911, International Women's Day was honored for the first time in Austria, Denmark, Germany and Switzerland on 19 March. Between 1913 and 1914, women in Russia observed their first Women's Day on February 23. Later, it was decided that March 8 will be the globally accepted day to celebrate IWD. International Women's Day was celebrated for the first time by the United Nations in 1975. The three colors used were purple (signifying justice and dignity), green (symbolizing hope) and white (representing purity).

This year's theme is #ChooseToChallenge - "A challenged world is an alert world and from challenge comes change". Let us join to celebrate this year's International Women's Day, keeping in mind that a woman in any form, be it a sister or wife or mother or daughter or friend, must be celebrated and honored.

Women the Symbol of Power, A Beautiful creation by god..!
ASET wishes its Women Staff a very Happy International Women's Day. Keep Shining..!



Kripa. K. M
HoD - CE



Neethu John
Asst. Prof. - CE



Gopika Unni
Asst. Prof. - CE



Lakshmi Sai
Asst. Prof. - CE



Sruthi Raveendran
Asst. Prof. - CE



Indu. M
Asst. Prof. - CE



Dr. Mahima Ganeshan
Asst. Prof. - CE



Nanditha. S
Asst. Prof. - CE



Hardhi. S
Teaching Asst. - CE



Reshma. S
Teaching Asst. - CE



Keerthana. I. P
Asst. Prof. - CSE



Sruthi Sukumaran
Asst. Prof. - CSE



Aswathi. P. V
Asst. Prof. - CSE



Rabeena. T. M
Asst. Prof. - CSE



Swetha. C
Asst. Prof. - ECE



Vijitha Khan
Asst. Prof. - ECE



Divya Mohan
Asst. Prof. - ECE



Akhila Krishnan
Asst. Prof. - ECE



Sindhu. V. R
Lab Instructor - ECE



Lakshmy Suresh
Asst. Prof. - EEE



Sowmya. S
Asst. Prof. - EEE



Swathy. M. V
Asst. Prof. - EEE



Veenaa Raj. V
Asst. Prof. - EEE



Sunitha. K. G
Asst. Prof. - S&H



Sangeetha. P. S
Asst. Prof. - S&H



Prabha. R
Asst. Prof. - S&H



Preeja. V
Asst. Prof. - S&H



Mini. T
Teaching Asst. - S&H



Bindu Valoor
Manager
Academic Outreach



Sulegha. S
Admin Asst.



Anku K Thambi
Admin Asst.



Anima P. S
Admin Asst.

Self-deception



Anand Haridas
AP - CSE
ASET

The human brain in its cosmic sense, probably could be the most malleable substance in the whole human system. The brain gets this occultness solely due to the fact that it seats the most potent gland in the whole human system-the pineal gland, to which no modern science could attribute any direct tangible functionality till date. This tiny yet powerful gland in turn hosts the essence of the human existence –the all-pervading, the eternal, soul or the spirit. And by virtue of this uncommon and peculiar nature, the brain could be moulded, unmoulded and remoulded according to its custodian's intent. And the pace at which this happens is directly dependent upon the might of the wish or the intent, the more the mental exertion, the faster the moulding process is. The modern science simply calls it by the now ubiquitous term –neuroplasticity, and the commoners call it by the simpler terms – self-deception.

Why self-deception? Because it indeed is a clever art of deceiving the brain –the power house of human system, to make it believe that whatever mental image that is put into it consistently over a period of time accompanied by vociferous visualizations, feel, emotions and pulse that are real life-like, will eventually make it believe that all these persistent images are reality and thus it gets itself wired and shaped up in the new mould consistent with the images that had been sown into it so deeply. Thus the caretaker of this powerhouse gets into a totally different mould and exists to be in an auto pilot mode because the brain has already got wired and rewired in congruence with the thoughts and visualizations fed into it requiring the custodian to put in no more efforts in the moulding process.



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Succinctly, this whole thing could be perceived very well as a process akin to pot making. In traditional pot making process using clay, the walls of the hands acts as the cast that shapes the clay into the desired product that spins on the potter's wheel with a consistent speed .Similarly the human clay that spins on the wheel called as the 'wheel of thought-persistency' gets itself shaped up according to the 'hands of the thoughts' and visualizations that comes into contact with it. And this brain modeling that happens through this deceptive process is the underlying reason for a person for being what he or she is, apart from the various other subtle, cosmic, invisible and at times, complex factors such as the carry-overs from the many a previous life terms that we had on this planet earth.

As a matter of fact, the one who is seemingly adept at this art of self-deception from a totally new vantage point is perhaps the one who has gained the real ownership of his or her life. So Let's all, very well own our precious existence on this planet earth by being the greatest 'self-deceivers' in its rightful sense…

ഉന്മാദം

ക്ഷണികമാം ജീവകണം
ധരിത്രിയിൽ വാഴുവാൻ ആകുംവണ്ണം
കെല്പുവന്നൊരശ്വമായുയുർത്തോരുന്മാദമേ..
അഭ്രപാളികളിൽനിന്നുതിരും അശ്രുബിന്ദുവെ പോലെ,
നിലതുരുണ്ടു ചുടുനിശ്വാസമായ് പോകുവതെന്തഹോ..!
ആഴി ഗർത്തത്തെക്കാളും നീലവാനവിതാനത്തെക്കാളും
മേന്മയായൊരിടമുണ്ടോ..?
മരുപ്പച്ചയും തരുനിരകളും കൂടിയിണങ്ങിയൊരിടം വേറുണ്ടോ..?
അംബരം തൊടും മാളികമേലൊരു കൂടൊരുക്കുവാൻ മോഹം..!
കണ്ടില്ലഹോ, മറു പ്രഭാതത്തെയീ മൺകൂനക്കുള്ളിലെങ്ങുമെ,
എന്റെ ജീവാത്മായ ഉറ്റുടയവരെയുമെൻ ദേഹിയെയും...
അതിനാലേ ചൊൽവതു ക്ഷണികമീ ജീവയാത്രയുമത്രമേൽ ജീവനും..!



Sulegha. S
Admin Asst.

IEEE EXECUTIVE COMMITTEE 2021

ASET ACTIVITIES

IEEE Student Branch



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Counsellor



Arya R Krishna
Chair



Sanjay. S
Vice Chair



Kavya Mukundan
Secretary



Anirudh. K
Treasurer



Priyanka. K
Link Representative



Sankulesh Narayanan. M
Membership Development Coordinator



Sreevalsan. K. R
First Year, Technical Coordinator



Vishnu. K
First Year, Technical Coordinator

ASET ACTIVITIES

IEEE Antennas and Propogation Society SB Chapter



Dr. Krishna Kumar Kishor
Advisor



Ushmala. B
Chair



Vishnupriya. K
Vice Chair



Sreevalsan. K. R
Secretary



Megha. T. R
Treasurer

IEEE Women in Engineering SB Affinity Group



Dr. V. Balamurugan
Group Advisor



Anjana. R
Chair



Krishnendu Satish. V. V
Vice Chair



Dharani. T
Secretary



Sthuthi Maria. C
Treasurer

COVID POEM RECITATION

ASET ACTIVITIES

Ahalia Forum, an initiative of Ahalia Group Academic Institutions had organized COVID KAVITHA SADAS on 14 February 2021 on which 30 poets presented their poems based on the theme 'COVID'. These poems will be published by Ahalia Publications as a token of encouragement for the literary artists.



TECH TALK

Ahalia School of engineering and technology had conducted a technical talk on **Benefits of Professional Body Membership** on 20/02/2021 from 3 p.m. to 4 p.m. The talk was about 6 professional body memberships namely,

- IEI (Institution of Engineers (India)) by Dr.P.R.Sreemahadevan Pillai, Principal, ASET & Director, Ahalia group of academic institutions
- ISTE (Indian Society of Technical Education) by Dr. G. Murugananth, Prof. & Head - EEE Dept, ASET.
- IETE (Institution of Electronics and Telecommunication Engineers) by Dr V Balamurugan, Prof. & Head - ECE Dept, ASET
- CSI (Computer Society of India) by Dr. S. Gunasekaran, Prof. & Head - CSE Dept, ASET.
- IEEE (Institute of Electrical and Electronics Engineers) by Dr. Krishna Kumar kishor, Vice Principal, ASET & Asst. Director, Ahalia group of academic institution
- SAE (Society of Automotive engineers) by Dr Prakash D, Prof. & Head - ME Dept, ASET.

Total 133 students actively participated in the event and were motivated by the talk. Students were interested in taking membership in different professional bodies.

Dr. G. Murugananth, Prof. & HoD - EEE, Sangeetha. P. S., AP - S&H, Aswathi. P. V., AP - CSE were coordinated the program.

ASET ACTIVITIES



Dr. P. R. Sreemahadevan Pillai
Principal - ASET
Director - Ahalia Group of Academic Institutions



Dr. G. Murugananth
Prof. & HoD - EEE
ASET



Dr. V. Balamurugan
Prof. & HoD - ECE
ASET



Dr. S. Gunasekaran
Prof. & HoD - CSE
ASET



Dr. Krishna Kumar Kishor
Vice Principal - ASET
Asst. Director - Ahalia Group of Academic Institutions



D. Prakash
Prof. & HoD - ME
ASET

PACT 21: PROGRAMS FOR ACADEMIC COUNSELING AND TRAINING

Ahalia School of Engineering & Technology, Palakkad, organized PACT 21: Programs for Academic Counseling & Training through online on Google Meet to prepare secondary and higher secondary students for the future education and career. Programs for Academic Counseling & Training: PACT-21, is a noble initiative of Ahalia School of Engineering & Technology to prepare students for the future education and career. The first webinar of the series was organized on the topic '**Stress & Anxiety Management Techniques**' on 14 February 2021. This is to equip the students to handle stress and anxiety induced by exams and other life events. The session was handled by Mr. Parthasarathy R., Founder and Chairman Healthy Mind Happy Life, The Virtual Institute for Mental Wellness. The resource person explained the ill-effects of stress on both physical and mental health and suggested coping techniques.

The second webinar of PACT-21 series was conducted on the topic '**Influence of Hormones & Diet on Our Thoughts**' was held on Feb-21-2021.The session was handled by Dr. Ramalingam P. Kandaswamy , General Physician, Ahalia Diabetes Hospital, Palakkad. , gave insights on how a simple dietary modification can help us stabilize our mood, thereby conditioning our thoughts and behavior. The third and final webinar of PACT-21 series was conducted on the topic '**How to Score Better in Exams**' was held on Feb-28-2021.

ASET ACTIVITIES

The session was handled by Dr. P.R. Sreemahadevan Pillai, Director, Ahalia Group Academic Institutions & Principal, Ahalia School of Engineering and Technology, Palakkad. Briefed about how brain stores and retrieves information, the importance of structuring the study time, memorising techniques, apportioning the time while writing the exams and how to view your answers through an invigilators eyes.



Mr. Parthasarathy. R
Founder & Chairman
'Healthy Mind - Happy Life'



Dr. Ramalingam P Kandaswamy
General Physician
Ahalia Diabetes Hospital
Palakkad



Dr. P. R. Sreemahadevan Pillai
Principal - ASET
Director - Ahalia Group of
Academic Institutions

FACULTY DEVELOPMENT PROGRAM

The Department of Electronics and Communication Engineering, of Ahalia School of Engineering and Technology Palakkad had organized an AICTE –ISTE sponsored Online Faculty Development Program (FDP) on "**Machine Learning and Optimization**" Phase - I during 22nd - 27th, February 2021. This FDP designed with the state of the art concepts of Machine Learning and Optimization that comprises of theory as well as hands on sessions. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. The course was designed to benefit academicians, researchers, and practicing engineers. The sessions were handled by the academicians from reputed institutions and experts from Industries.

Inaugural Session





The program was inaugurated on 22nd February 2021 by Col. B .Venkat, Director, Faculty Development Cell, AICTE, New Delhi. He appreciates the coordinator and the management for organizing this activity. The Welcome Address was given by Dr. V. Balamurugan, Professor and Head, Department of ECE, Ahalia School of Engineering and Technology, Palakkad. The Presidential address was given by Dr. P .R Sreemahadevan Pillai, Principal Ahalia School of Engineering and Technology & Director, Ahalia group Academic Institutions. He shared that it helps to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development programs. He briefed the participants about the subjects chosen for the FDP and highlighted the reasons and importance of the same followed by the felicitation of Chief guest by Dr Krishnakumar Kishor , Vice Principal Ahalia School of Engineering and Technology & Assistant Director, Ahalia group Academic Institutions. He congratulates the coordinator and team of faculty members for organizing an online FDP on "Machine Learning and Optimization".

ASET ACTIVITIES

He highlighted these types of faculty development programs are useful as it would help the faculty members to come out of their routine academic activities and to learn something new. This new knowledge can be transformed into a research work or a class-room activity on a later stage. All of you can make use of this program to improve your technical knowledge."

The Vote of thanks was delivered by Ms. Vijitha Khan, AP - ECE



Col. B. Venkat
Director
Faculty Development Cell
New Delhi



Dr. V. Balamurugan
Prof. & HoD - ECE
ASET



Dr. P. R. Sreemahadevan Pillai
Principal - ASET
Director - Ahalia Group of Academic Institutions



Dr. Krishna Kumar Kishor
Vice Principal - ASET
Asst. Director - Ahalia Group of Academic Institutions



Mrs. Vijitha Khan
AP - ECE
ASET

Technical Session

22nd Feb 2021

Session I - Introduction to Machine Learning - Latest Trends and Application
Session II - Implementation of Machine Learning Tools

The first two sessions were handled by Dr. P. Balakrishnan, Associate Professor in the Department of Analytics, School of Computer Science and Engineering (SCOPE), Vellore Institute of Technology. He started with introduction to machine learning, its various applications and recent trends. He completed his session with tools applied in machine learning.

He explained Machine learning is used to predict, categorize, classify, finding polarity from the given datasets and concerned with minimizing the error. It uses training data for artificial intelligence. Since there are many algorithms like SVM, Bayes algorithm, logistic regression, etc. which use training data to match with input data and then they provide conclusion with maximum accuracy.



Dr. P. Balakrishnan
Assoc. Prof.,
Dept. of Analytics.
Vellore Institute of Technology

ASET ACTIVITIES

To make participants aware with various popular machine learning algorithms, Dr. P. Balakrishnan, conducted session with introduction of image processing, various tools and techniques to work with image processing.

In the session on Research Scopes and Recent Trends in Artificial Intelligence and Machine Learning, he covered overview and applications of Machine learning. Machine learning can be broadly defined as computational methods using experience to improve performance or to make accurate predictions. Here, experience refers to the past information available to the learner, which typically takes the form of electronic data collected and made available for analysis. This data could be in the form of digitized human-labeled training sets, or other types of information obtained via interaction with the environment. In all cases, its quality and size are crucial to the success of the predictions made by the learner.

Session III - Mathematics for Machine Learning



Dr. Binoy Balan K
Prof. & HoD - S & H
ASET

The session started with basics of mathematics required for Machine learning algorithms. The role of sub mathematics branches used in ML model is also discussed.
The basic concepts of Linear algebra were explained clearly with examples. The purpose of matrix decomposition in ML model was discussed.

The purpose of Vector spaces was explained clearly with the definitions and examples. Finally concluded the session by the importance of Statistics, Probability distribution, correlation and regression analysis in data analysis with suitable examples.

Mentimeter website (www.menti.com) was used in the session to get the immediate feedback and interaction from the participants.

Session IV - NEP 2020 and The Way Ahed



Col. B. Venkat
Director -
Faculty Development Cell,
AICTE, New Delhi

The session started by Col. B. Venkat explaining the "Implementation of New Education Policy" in our education system. The policy reaffirms that bridging social gaps in access, participation, and learning outcomes in education will continue to be one of the major goals of all education sector. NEP would transform the education sector in the country as it focuses on making education accessible, equitable, inclusive but only if implemented at all levels.

He briefed the new structure, 10+2 structure of school curricula is to be replaced by a 5+3+3+4 curricular structure corresponding to ages 3-8, 8-11, 11-14, and 14-18 years respectively. The new system will have 12 years of schooling with three years of Anganwadi or pre-schooling. To implement the changes at each level a thorough restructuring of the curriculum, pedagogy and the content needs to be done as per the NCF (National Curriculum Framework) and content rubrics needs to be revisited to modify the textbooks.

He discussed the blending of technology with the teaching and learning process, National Educational Alliance for Technology (NEAT), a regulatory body that has been created to use technology for better learning outcomes. NEAT aims to use artificial Intelligence to make learning more personalized and customized as per the learner's requirement. He concluded his session by appreciating our institution and how NEP 2020 recognizes the need to evaluate "higher-order skills, such as analysis, critical thinking and conceptual clarity," and hence shifting the focus of assessments from marks based to competency based. The marking system should now be different, there will be a dire need to change the questions so as they have related answers, where based on the child's aptitude he answers and based on the answers the scores could be calculated.

ASET ACTIVITIES

23rd Feb 2021

Session I - **Supervised Learning, Unsupervised Learning and Reinforcement Learning Regression and Classification Machine Learning - End - to - End Process**
Session II - **Activity Time - ML Process - Data Preparation Exploratory Data Analysis, Data Cleaning And Future Engineering**
Software requirements, Introduction to Key ML Libraries
Session III - **Linear Regression, Model Training and Evaluation, Bias Variance, Demo - Regression Problem**

On the second day, there were 4 sessions, the resource person for first 3 sessions was Mr. H. Rajesh Kumar, Founder, Buzz-Tech Training Institute Coimbatore.
On the first session he discussed in detail about types of Machine learning, supervised learning, unsupervised learning and reinforcement learning, then regression and its classification, machine learning end to end process. The session was really helpful for building a basic ides on the concept of machine learning.



Mr. H. Rajesh Kumar
Founder
Buzztech Training Institute,
Coimbatore

The second session was about Machine learning process and its software requirements. Also an activity time was included in the session where most of the participants responded very well. The various factors that has to be considered while designing a system in machine learning was discussed in detail. The different platforms like Google colabs for AI implementations and its application level algorithms were also explained.

The third session dealt with advanced areas in AI and MI. The speaker had enumerated regression and its types, regression problem and Machine learning through various examples and hands on sessions. The session concluded at 02:45 P.M.

Session IV - **Man Versus Machine**



Dr. P. R. Sreemahadevan Pillai
Principal - ASET
Director - Ahalia Group of
Academic Institutions

The last session was handled by Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology, Palakkad on Man Vs Machine. In his talk he emphasized the need for foreseeing a world with Man working along with the Machine. He also mentioned there would be ground breaking technological advancements within 10 years in the field of Robotics. He articulated the possibilities of having machines as co-workers in your work place. He pointed out the importance of being taught the techniques and technologies which are required for the robotic control in the coming years.

24th Feb 2021

Session I - **Support Vector Machine - Optimal Separating Hyper Plane**
Session II - **Soft Margin Hyperplane, Kernel Trick, Kernel Functions, Linear and Nonlinear Optimization**

The following concepts were covered in two sessions.

Linear Programming (LP) Based Simple Constrained Optimization Problem Formulation With Solution. Examples were shown in two-dimensional space with multiple constraints. The intersecting region of the constraints known as feasible region was explained with the help of graphical plots. A sample Mat lab code to plot the feasible region was demonstratDual formulated

ASET ACTIVITIES

ed. The significance of the feasible region formed through multiple constraints to arrive at the solution to the LP based optimization problem was highlighted. The key statement is "The solution to the constrained optimization problem always lies in any one of the vertex of the feasible region." This was explained with examples containing two variables. This was followed by the Primal.

The advantage of the duality in connection to the feasible region formed by the multiple constraints was explained through examples. The Lagrangian which helps to determine the active constraints and its direct connection to Support Vectors in the Support Vector Machine was highlighted. The take away statement is "The Lagrangian multiplier will be non-zero for the active constraints. The condition used to infer the role of Lagrangian multiplier is called KKT or complementarity condition." This was followed by the basic formulation of Support Vector Machines.



Dr. V. Sowmya
Asst. Prof.
Computational Engg. & Networking.
Amrita Viswa Vidya Peetham
Coimbatore

The basic hard margin, soft margin, L1-SVM, L2-SVM and Proximal SVM formulation was demonstrated with CVX open-source package developed by Prof. Stephen Boyd and team from Stanford University with Matlab code. This was followed by Non-Linear Mapping using Kernel functions also known as Kernel trick. In this, one of the popular algorithms for non-linear mapping called Random Kitchen Sink (RKS) was covered. The Matlab codes to generate non-linear datasets in two-dimensional space such as checker board data, spring data, and spiral data were demonstrated. The Kernel mapping by RKS and soft margin SVM to classify the non-linear data was demonstrated using Matlab code developed using CVX package.
The session was concluded with the extension of non-linear mapping to the Neural Network forward and the backward pass.

Session III - Probably Approximately Learning, Dimensionality Reduction - Subset Selection, Principle Component Analysis

Session IV - Cross Validation and Resampling Methods - KFold Cross Validation, Boot Strapping, Measuring Classifier Performance, Precision, Recall, ROC Curves, Bayes Theorem, Bayesian Classifier, Maximum Likelihood Estimation, Density Functions

The session started with "Probably approximate correct learning" which is Mathematical Framework for Machine Learning model. The definition of Hypothesis and True Errors were explained to make clear understanding of PAC model.
Noise and Effect of Noise over the Machine Learning data were explained clearly and Generalization concept were discussed. The concept of over fitting, under fitting and normal fitting were discussed when ML model trained on the training set to predict the right output.
The purpose of Dimensionality Reduction was explained clearly with the algorithm of Principle component analysis. Visualization and step by step algorithm of PCA model was explained in detail wit hands-on training.



Dr. S. Gunasekaran
Prof. & HoD - CSE
ASET

The last Session was also handled by Dr. S. Gunasekaran, Who discussed about definition and examples of classification. Under probability based classification, the resource person discussed about Bayes Theorem, Bayesian classifier and Maximum Likelihood estimation were discussed with real time example.

Finally he concluded the session by how to measure the performance ML algorithm by introducing Boot strapping, measuring classifier performance- Precision, recall, ROC curves. For user interaction, Mentimeter website (www.menti.com) was used in the session to get the immediate feedback from the participants. Participants were trained with python coding to implement PCA model using Google COLAB. The links for the COLAB book are furnished below.

https://colab.research.google.com/drive/1kOVvM63NKaaT4KNi1vYXoTV4Cda7j2EW?usp=sharing
https://colab.research.google.com/drive/1B8ipFSl239jOlgMUI8ls8cgGqV7wq-TP?usp=sharing

ASET ACTIVITIES

25th Feb 2021

Session I - Tensorflow Introduction
Session II - Machine Learning Application using Tensorflow

On the fourth day there were 4 sessions, the resource person for first 2 sessions was Mr. Vijay Nair, Data analyst, CTO, Assyst International Pvt. Ltd., Kochi, Kerala



Mr. Vijay Nair
CTO
Assyst Intl. Pvt Ltd.
Kochi

The first session was about "Deep learning with CNN". The speaker started the session with an introduction to image recognition systems. In his talk, he concentrated more on Deep Learning Based Vision Pipeline And Neural Network. He pointed out the significance of various deep learning taxonomy and recurrent neural network. The session was really informative and helpful for realizing much about deep learning and neural network.

The second session was mainly about Tensor flow and Keras. Tensor flow is a Google's open source library for machine intelligence. The various constructs for Tensor flow and Tensor board were explained in this session. The running codes in tensor flow had been explained with examples .The theory sessions were followed by the implementation of Tensor flow. The participants actively participated in the hands on sessions.

Session III - Decision Trees - Entropy, Information Gain, Tree Construction, ID 3, Issues in Decision, Tree Learning - Avoiding, Over Fitting, Reduced Error Pruning



Dr. S. Sankar Ganesh
Asst. Prof., Sr. Gr I
Dept of Communication Engg.
Vellore Institute of Technology

The third session was handled by Dr. S. Shankar Ganesh, Assistant Professor (Sr. Grade1), Dept. of Communication Engineering, Vellore Institute of Technology. The basic objectives were

i) To understand the basics of decision Tree algorithm
ii) To familiarize the over fitting in decision trees.

The various aspects of machine learning and its importance were discussed in the session. The session gave an idea about, how a beginner could do data collection on machine learning concepts.

Session IV - Giving Back to Society - Teacher's Role



Dr. Krishna Kumar Kishor
Vice Principal - ASET
Asst. Director - Ahalia Group of Academic Institutions

The last session was on "Giving back to society – Teachers role" by Dr. Krishna Kumar Kishor, Vice Principal, Ahalia School of Engineering and Technology, Palakkad. He started with a question "who is a teacher" and he explained the answer in quotes as "one that teaches" and "one whose occupation is to instruct". He had conducted a survey on qualities and responsibilities of a teacher and the opinions from participants were collected and had a discussion on these information's. He emphasized teaching along with service and research is more important. He also put light on the challenges and suggestions of being a teacher's role in giving back to the society. He concluded that a faculty's primary role is to teach and handle sessions- but should not stick to doing only this.

ASET ACTIVITIES

26th Feb 2021

Session I - Introduction to Optimization Techniques
Session II - Implementation of Optimization Technique using GA

The following concepts were covered in two Session



Dr. U. S. Ragupathy
Dept. of Electronics & Instrumentation Engg.
Kongu Engg. College
Erode

The difference between hard and soft computing, analogy between Biological Neural Network and Artificial Neural Network were dealt. The basic structure of ANN with different learnings were explained. The need for neural network in separation of logic function was discussed. The implementation of logical function and gates were demonstrated using MATLAB (R2015b) through GUI- "nntool". This was followed by optimization using Genetic Algorithm.

In the second session, the difference between Neural network, Fuzzy logic and Genetic algorithm (GA) was discussed with real life examples. The basic concept of GA along with need for optimization was explained. The algorithmic steps of Genetic algorithmic was discussed in detail for an maximization / minimization problem.

The session was concluded with different applications of neural network and genetic algorithm in Engineering and medical field.

Session III - Introduction to Deep Learning and Implementation



Dr. Anand Kumar. M
Asst. Prof., Gr I
Dept. of IT
NIT Suratkal

He started the session with introduction and explained that Deep learning is a particular kind of machine learning that achieves great power and flexibility by learning to represent the world as a nested hierarchy of concepts, with each concept defined in relation to simpler concepts, and more abstract representations computed in terms of less abstract ones. Given a large dataset of input and output pairs, a deep learning algorithm will try to minimize the difference between its prediction and expected output. By doing this, it tries to learn the association/pattern between given inputs and outputs — this in turn allows a deep learning model to generalize to inputs that it hasn't seen before. Deep Learning Algorithms use something called a neural network to find associations between a set of inputs and outputs.
The major points to keep note of here are the tunable weight and bias parameters — represented by w and b respectively in the function above. These are essential to the actual "learning" process of a deep learning algorithm.After the neural network passes its inputs all the way to its outputs, the network evaluates how good its prediction was (relative to the expected output) through something called a loss function. As an example, the "Mean Squared Error" loss function was explained.

Session IV - Deep Learning Application

Big Data Analytics and Deep Learning are two high-focus of data science. Big Data has become important as many organizations both public and private have been collecting massive amounts of domain-specific information, which can contain useful information about problems such as national intelligence, cyber security, fraud detection, marketing, and medical informatics. Companies such as Google and Microsoft are analyzing large volumes of data for business analysis and decisions, impacting existing and future technology. Deep Learning algorithms extract high-level, complex abstractions as data representations through a hierarchical learning process. Complex abstractions are learnt at a given level based on relatively simpler abstractions formulated in the preceding level in the hierarchy. A key benefit of Deep Learning is the analysis and learning of massive amounts of unsupe

rvised data, making it a valuable tool for Big Data Analytics where raw data is largely unlabeled and un-categorized. In the presentation, he explored how Deep Learning can be utilized for addressing some important problems in Big Data Analytics, including extracting complex patterns from massive volumes of data, semantic indexing, data tagging, fast information retrieval, and simplifying discriminative tasks. He also investigated some aspects of Deep Learning research that need further exploration to incorporate specific challenges introduced by Big Data Analytics, including streaming data, high-dimensional data, scalability of models, and distributed computing. He concluded by presenting insights into relevant future works by posing some questions, including defining data sampling criteria, domain adaptation modeling, defining criteria for obtaining useful data abstractions, improving semantic indexing, semi-supervised learning, and active learning.



Dr. Sudhakar. M. S
Assoc. Prof.,
School of Electronics Engg.
Vellore Institute of Technology

27th Feb 2021

Session I - Neural Networks - The Perception, Activation Functions, Training.
Session II - Feed Forward Network by Back Propogation, Feed Forward multilayer Neural Networks, The back Propogation Algorithm, Deep Neural Network

On the final day there were3 sessions, the resource person for first 2 sessions was Dr. Sreedhar Swaminathan, Assistant Professor, Department of Computer Science and Engineering, School of Engineering and Applied Sciences, Bennett University, Noida.



Dr. Sridhar Swaminathan
Dept. of CSE
Bennet University
Noida

The first session was about neural networks. The speaker started the session with an introduction to machine learning aspects. In his talk he emphasized more on neural network hands on sessions. He pointed out the significance of activation functions. The session was really helpful and it could help participants to gain an understanding of basics and intermediate levels.

In the second session, the speaker dealt with feed forward networks by back propagation. A feed forward neural network is an artificial neural network where the nodes never form a cycle. "This kind of neural network has an input layer, hidden layers, and an output layer. It is the first and simplest type of artificial neural network". The concept of feed forward multilayer and basics of deep neural networks were also discussed in the session. He said "The main attractive point regarding Deep neural networks is that, it has become the standard tool for solving a variety of computer vision problems."

Session III - Feedback and Assessment

Assessment is an integral part of instruction, as it determines whether or not the goals are met. Assessment has a vital impact in the education process to inform and improve ongoing learning, and plays a significant role. Assessment & Evaluation: Significance Assessment and evaluation are the main parts of teaching and learning activities. They have very close definitions and they are very often used interchangeably. However, they do differ from each other to some extent. Assessment is a general item, which consists of methods and techniques used to gather information about participant's ability, knowledge understanding and motivation Evaluation is the activity of collecting necessary information to determine if a program answers its goals.

Assessment pushes instruction by stressing the importance of critical thinking, reasoning, and reflection thus creating a quality learning environment. Many techniques may be used to assess the learning outcomes Assessment helps monitor progress and

contributes to enforcing the assessment triangle, i.e., observations, interpretations of that observation, and understanding of that observation. Importance of Assessment has an important role in education and it has a critical role in the teaching process. Through appropriate assessment, teachers can classify and, give feedback and structure their teaching accordingly. Recently, educators and scientists have been becoming more interested in the requirements of assessment procedures in FDP.

As the assessment process affects both organizers and participants, significance and consideration should be given to assessment procedures.
A learner centric technique supports the perception that participants should be active members of a course, It can be said that assessment is a procedure and involves information and data regarding the development of the any learning and teaching activity.



Dr. V. Balamurugan
Prof. & HoD - ECE
ASET

Valedictory Session

On the valedictory session, the chief guest was Mr.Vijay D. Vaidya, Executive Secretary, ISTE. Dr. P.R. Sreemahadevan pillai , Principal, Ahalia School of Engineering and Technology was presided over the function.

Mr. Vijay D Vaidya had given away the valedictory speech. In his speech, he emphasized the necessity of participating in this kind of faculty development programs.

Dr. V.Balamurugan, Coordinator of the program, had proposed the vote of thanks. The program was concluded at 3.45 pm.



Dr. Vijay D Vaidya
Executive Secretary
ISTE, New Delhi

All the sessions were very informative. The discussed areas are of great benefit to the participants as the topics with the latest trends. Participants were educated on the most widely used advance strategies in Machine Learning areas like Deep learning algorithms, SVM, CNN etc. The participants gained knowledge about Machine Learning and optimization techniques. This FDP was immensely useful for the beginner level and middle level research scholars. The research scholars can get technical inputs for their research work from the Resource Persons. This in turn will help in motivating participants and accentuate the placement opportunities of students

WEBINAR ON 'AN INSIGHT INTO MINOR DEGREE FOR KTU STUDENTS'

The Department of Mechanical Engineering in association with the IEEE Student Branch, IEEE Antennas and Propagation Society (APS) SBC and IEEE Women In Engineering (WIE) SB AG, Ahalia School of Engineering and Technology, Palakkad organized a webinar session titled 'An Insight In to Minor Degree for KTU Students' on 27 February 2021. The session was handled by Mr. Dhanesh S., Assistant Professor, Ahalia School of Engineering and Technology, Palakkad.



Dhanesh. S
Asst. Prof. - ME
ASET

ASET ACTIVITIES

WORKSHOP ON 'EFFECTIVE COMMUNICATION'

Communication Skills are an integral part in the education of engineering students which facilitate them to prepare for a bright future. Department of Science and Humanities, Ahalia Palakkad ISTE Chapter and IEEE Student Branch jointly organized a one day Online Workshop on "Effective Communication" on 27th Feb' 2021. For the first year B.Tech students for their future education and career. The aim of this workshop was to equip the engineering graduates to meet with the required communication skill that is needed in the national and international industrial world. Prof. Dr. M. Swapna and Prof. E. K. Girisan were the resource persons for the workshop.

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Dr. M. Swapna
Prof. & HoD - English
Sri Krishna Adithya College of Arts & Science, Coimbatore

The first session on 'ACE YOUR COMMUNICATIVE COMPETENCE' was handled by Dr. M. Swapna, Professor & Head, Department of English, Sri Krishna Aditya College of Arts and Science, Coimbatore, Tamilnadu. Prof. Dr. M. Swapna, Professor and Head, Department of English, Sri Krishna Adithya College of Arts and Science, Coimbatore, Ph.D in English Literature, with over 12 years of experience was invited to deliver a lecture on "Ace Your Communicative Competence". The main emphasis of the workshop was stressed on the importance of oral and written communication in a professional world. In this era, communication skills are the salient element in the make-up of an engineer. The interaction enlightened the students with the use of correct English. Participants shed their inhibitions and actively participated in the workshop. The workshop ended with a pleasant note, benefitting both the student community and faculties by the professor's rich knowledge and experience in life.



Prof. E. K. Girisan
Assoc. Prof. & HoD - BCA IT
Sree Narayana Guru College
Coimbatore

The second session on 'PILLARS OF EFFECTIVE COMMUNICATION' was handled by Prof. E.K.Girisan, Associate Professor & Head, Department of BCA & IT, Sree Narayan Guru College, Coimbatore, Tamilnadu. The session opened with a brief discussion on interview skills and gave an idea for the students on how to prepare for a group discussion by Prof. E. K. Girisan , Associate Professor and Head, Department of BCA &IT, Sree Narayana Guru College, Coimbatore. The resource person encouraged the participants to communicate effectively, and provided a chance to identify their barriers in communication. He demonstrated an action plan to overcome barriers in communication. Communication is an indispensable tool in one's life. The essence of this workshop is to provide the students' with the needed proficiency and knowledge required in this competitive world. He advised the Students to develop the habit of reading novels, essays and poems in English language. He also urged them to develop the habit of speaking in English among themselves, especially when they are with their friends. Participants viewed the workshop as a refresher and the practical exercises allowed a better understanding of the subject.

As we know, Engineering is the biggest field of study and English communication is vital for an engineering student. This workshop provided a lot of practice to the students. During the interactive sessions, students were encouraged and helped to talk without any fear. They were given a chance to analyse their speaking and writing skills. Students' feedback was positive. The workshop was successful and the students actively participated in the activities.

WEBINAR ON 'INTRODUCTION TO ASTRONOMY AND ASTROPHYSICS'

The Department of Mechanical Engineering in association with the IEEE Student Branch and Institution's Innovation Council of Ahalia School of Engineering and Technology, Palakkad organized a webinar session titled" Introduction to Astronomy and Astrophysics". The session was handled by Mr. Jayant Ganguly, Senior Technical Officer Regional Science Center, Calicut on 03 March 2021. This event was coordinated by Mr. Anujith S (2018-22, EEE) & Ms. Prajitha K Jayan (2019-23, CSE).



Jayant Ganguly
Sr. Technical Officer
Regional Cancer Center, Calicut

ASET ACTIVITIES

SYSTEMATIC VOTERS' EDUCATION AND ELECTORAL PARTICIPATION (SVEEP)

Ahalia School of Engineering & Technology, Palakkad, organized a webinar on "PEOPLE GET THE GOVERNMENT THEY DESERVE" - USE YOUR VOTING RIGHTS on 06 March 2021 at 2:30 p.m. through Google Meet in association with Systematic Voters' Education and Electoral Participation Program, better known as SVEEP, a flagship program of the Election Commission of India for voter education, spreading voter awareness and promoting voter literacy in India.



Since 2009, SVEEP's primary goal is to build a truly participative democracy in India by encouraging all eligible citizens to vote and make an informed decision during the elections. The program is based on multiple general as well as targeted interventions which are designed according to the socio-economic, cultural and demographic profile of the state as well as the history of electoral participation in previous rounds of elections and learning thereof. The webinar was inaugurated by Ms. Mrunmai Joshi IAS, District Collector, Palakkad. Shri. Anil Kumar, NYK & SVEEP District Coordinator, Palakkad, gave the welcome address. The panelists for the event were Dr. P. R. Sreemahadevan Pillai, Director, Ahalia Group Academic Institutions in India & Dr. P. Murali, Former Principal, Govt. Victoria College. Prof. Pradip Somasundaran, Principal, College of Applied Science, Vadakkencherry, Proposed the Vote of thanks. After the panel discussion, students from various institutions performed in the cultural event.

ONE DAY WORKSHOP ON CIVIL AND ELECTRICAL ENGINEERING PRACTICES IN CONSTRUCTION

A one day workshop was organized by Ahalia School of Engineering and Technology jointly with LENSFED Palakkad district Committee under P.K. Balan Study and Research Center on "Civil and Electrical Engineering Practices in Construction". The workshop was inaugurated by Smt. Binumol K., President, Palakkad District Panchayat and Dr. P. R. Sreemahadevan Pillai (Director, Ahalia Group of Academic Institutions and Principal, Ahalia School of Engineering and Technology) presided over the function. Various technical sessions were conducted.

ASET ACTIVITIES



Dr. P. R. Sreemahadevan Pillai handled a session on “Recent Advances in Construction Technology”, followed by a session on “Testing of Construction Materials” by Prof. Kripa K. M., Head of the Civil Department. A session on facilities of the Environmental Engineering Laboratory was handled by Prof. Neethu John followed by a session on “Surveying and Levelling” by Prof. Gopika Unni. Ms. Hardhi S., Teaching Assistant, handled another session on tests considered for transportation. Prof. Lakshmi Sai A. gave a talk on “Soil Exploration and Testing Techniques”. The last and final session on “Electrical Wiring and Energy Conservation” was handled by Dr. G. Murugananth, Head of EEE Department followed by hands on demo on cable strength coordinated by Prof. A. Manickavasagam, Department of EEE and Mr. Radhakrishnan, Trade Instructor, Department of EEE. The event had 70 participants, members of LENSFED Palakkad district Committee

PLACEMENT TRAINING PROGRAM

ASET ACTIVITIES

Center for Career Development, Ahalia School of Engineering and Technology organized the following Placement Training Program

Study, Work and Live in Europe

Center for career development, Ahalia School of Engineering and Technology had organized a webinar on "Study, Work and Live in Europe by PegaOne Education on 16th March 2021 from 3.00 p.m. onwards to discuss the following topics

1. Opportunities and possibilities
2. Types on Universities

The discussion was followed by a question answer session. 36 students from various colleges across the state had participated in the discussion.



Mahindra Nandi Pride "Employability Skills Training"

Mahindra Pride Employability Skills Training

The following students are selected from Ahalia School of Engineering and Technology for Mahindra Nandi Pride training organized by Naandi Foundation. The students are eligible for employability skills training (Phase 2) and subsequent job interviews organized and scheduled by Naandi Foundation of Mahindra and Mahindra.



Ajay Prakash Nair
B. Tech
2017 - 22, CSE



Harikrishnan. K. P
B. Tech
2017 - 22, CSE

ASET ACTIVITIES

How to Perform in Job Interviews?

Three Day Interview Skills Training

Center for career development, Ahalia School of Engineering and Technology had organized a three day interview skills training from 17th to 19th March 2021 6.30 to 8.00 p.m. The training program has detailed the special areas that need to be focused for students aspiring to work in major MNCs in India or abroad.

The speaker emphasized the need for a positive attitude to overcome the fear of facing interview questions. Mock interviews and FAQs were conducted during the event.



Dr. Brijesh George John
International Trainer,
Social Media Influencer,
Author & Career Expert

Infosys Campus Placement 2021



ASET ACTIVITIES

KTU Facilitated Placement Drive of Infosys 2021 was held online on 21st Feb 2021. 64 students from Ahalia School of Engineering and Technology from Civil, Electrical, Electronics, Computer Science and Mechanical engineering Students participated in the placement drive.

The following students got selected for the next round.

1. Amitha Mohandas - CSE
2. Vishnu Prasad. A - CSE
3. Deeshma. B - CE
4. Megha. K. A - ECE
5. Remya Vijayakumar - CSE
6. Jissy. R. - ECE
7. Monish. J - ME
8. Gopika. K - CE
9. Ajay Prakash Nair - CSE
10. Anandu. K - CSE
11. Vishnupriya. K - ECE
12. Thahseen Sadat - CSE
13. Harisankar. T - ME
14. Deepthi. K - CSE
15. Aswin. S - ME
16. Akash. V - ME
17. Renjith. R - ME
18. Afzal. G - ME
19. Shibi. L - CSE

LIST OF PRESENTATIONS IN THE CONFERENCES, FDP, WEBINARS BY THE FACULTY MEMBERS

Guest Lectures Delivered by our Faculty

1. Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an invited lecture on “Science, Technology and innovation in Education: Changing Trends” on 01-03-2021 organized by MES College Marampally, Aluva.

2. Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an invited lecture on “Engineering for A Healthy Planet Celebrating the UNESCO Engineering Report” on 01-03- 2021 organized by The Institution of Engineers (India), Palakkad Local Centre on the occasion of World Engineering Day for Sustainable Development.

3. Mrs. Kripa K.M, HoD – CE, Participated as a guest on International Womens Day Celebration Organized by Ahalia Women and Children Hospital, Palakkad.

4. Dr. V. Balamurugan, HoD - ECE, has successfully presented a paper on ‘Facial Expression and Genre - Based Musical Clasiffication Using Deep Learning’ at the International Conference on Pervasive Computing and Social Networking (ICPCSN 2021) organized by Narasu’s Sarathy Institute of Technology, Salem, India on the 19th and 20th March 2021.

5. Dinesh Souparnika, Lab Instructor, EEE Department of ASET, Delivered an invited lecture on Krishikalam a webinar on Agriculture and Engineering on 11/02/2022 organized by NSS unit of Musaliyar college of Engineering Chirayinkeezh.

ASET ACTIVITIES

Participation in FDPs, Workshops and Webinars

1. Dr.V. Balamurugan, HoD ECE Departement, attended an International Online FDP on "Industry Adaptation through Advancement in Electronic Technology" on 9 to 15 February 2021 organized by Department of Electronics and Communication Engineering, College of Engineering Perumon, Kollam, Kerala, India

2. Dr.V. Balamurugan, HoD ECE Departement, attended the International Innovation Webinar on "Recent Innovation and Research Trends in Medical Research" jointly organized by Research and Innovation Centre - RRCE & Raja Rajeswari Institution Innovation Council(RRIIC) of Raja Rajeswari College of Engineering, Bangalore on 4th February 2021.

AHALIA IN THE MEDIA



ജനാധിപത്യം ശാക്തീകരിക്കുന്നതിൽ തെരഞ്ഞെടുപ്പിനുള്ള പ്രാധാന്യം വലുത്: ജില്ലാ കലക്ടർ

പാലക്കാട്: ജനാധിപത്യ സംവിധാനം ശാക്തീകരിക്കുന്നതിൽ തെരഞ്ഞെടുപ്പുകൾക്കുള്ള പ്രാധാന്യം വളരെ വലുതാണെന്ന് ജില്ലാ കലക്ടർ മൃൺമയി ജോഷി ശശാങ്ക് പറഞ്ഞു. സ്വീപ്പും അഹല്യ കോളജ് ഓഫ് എൻജിനീയറിങ്ങും സംയുക്തമായി സംഘടിപ്പിച്ച ഓൺലൈൻ വെബിനാറിൽ സംസാരിക്കുകയായിരുന്നു ജില്ലാ കലക്ടർ.

വോട്ടവകാശമുള്ള എല്ലാവരും വോട്ട് ചെയ്യുമ്പോഴാണ് തെരഞ്ഞെടുപ്പിന്റെ അർഥം ശരിയാകുന്നത്. യുവതലമുറയുടെ പങ്കാളിത്തം ഈ തെരഞ്ഞെടുപ്പിൽ കൂടുതൽ പ്രകടമാവണം. എല്ലാവരും അവരുടെ കുടുംബത്തിലും സമൂഹത്തിലും തെരഞ്ഞെടുപ്പിന്റെ അമ്പാസിഡർമാരാകണമെന്നും 1950, എന്ന ടോൾ ഫ്രീ നമ്പരും, സിവിജിൽ ആപ്പും ഉപയോഗിച്ച് തെരഞ്ഞെടുപ്പിലെ തെറ്റായ പ്രവണതകൾ ഒഴിവാക്കാൻ കഴിയുമെന്നും ജില്ലാ കലക്ടർ അഭിപ്രായപ്പെട്ടു.

അഹല്യ കോളജ് ഓഫ് എൻജിനീയറിങ്ങിൽ സംഘടിപ്പിച്ച ഓൺലൈൻ വെബിനാറിൽ സ്വീപ് നോഡൽ ഓഫിസർ കൂടിയായ നെഹ്റു യുവകേന്ദ്ര ജില്ലാ യൂത്ത് ഓഫിസർ അനിൽകുമാർ, അഹല്യ കോളജ് ഓഫ് എൻജിനീയറിങ് പ്രിൻസിപ്പാൾ മഹാദേവൻപിള്ള, വിക്ടോറിയ കോളജ് അധ്യാപകൻ ഡോ. മുരളി, ഐ.എച്ച്.ആർ.ഡി കോളജ് പ്രിൻസിപ്പാളും ഗായകനുമായ പ്രദീപ് സുന്ദർ, വിവിധ കോളജ് പ്രിൻസിപ്പൾമാർ, വിദ്യാർഥികൾ എന്നിവർ പങ്കെടുത്തു.



2021

Students told to imbibe values from teachers

EXPRESS NEWS SERVICE

AHALIA Group of Institutions, as part of its 'Guruvandanam' programme, honoured 7 teachers of Sree Narayana Public School, Elapully here on Saturday.

Ahalia Group of Educational Institutions academic director Dr P R Mahadevan Pillai and faculty of the institution honoured the teachers on the premises of the Sree Narayana Public School. Dr Pillai in his speech highlighted the significance of students imbibing values from teachers and practising those values in their life. School principal S Sripriya was honoured on the occasion. School president C Balan, school academic director Dr N Sudhodanan, director A K Vasudeva, Ahalia College of Engineering and Technology faculty Krishnakumar, Prakash and Bindhu spoke on the occasion.

Ahalia Group of Educational Institutions academic director Dr P R Mahadevan Pillai honouring Elapully Sree Narayana Public School principal S Sripriya on Saturday | EXPRESS

അഹല്യ വിദ്യാഭ്യാസസ്ഥാപനങ്ങളുടെ 'ഗുരുവന്ദനം' പുരസ്കാരം ഹോളി ട്രിനിറ്റി സ്കൂളിലെ അധ്യാപകരായ മലർ വസിഷ്ഠ, ലക്ഷ്മി കൃഷ്ണ എന്നിവർക്ക് അഹല്യ ഗ്രൂപ്പ് അസി. ഡയറക്ടർ ഡോ. കൃഷ്ണകുമാർ കിഷോർ കൈമാറുന്നു. അഹല്യ ഗ്രൂപ്പ് ഡയറക്ടർ പ്രൊഫ. ശ്രീഹരി വൻ പിള്ള, ഹോളി ട്രിനിറ്റി ഡീൻ ഡോ. ജോസഫ്, ഹോളി ട്രിനിറ്റി പ്രിൻസിപ്പൽ രേഖ എന്നിവർ സമീപം

ENGINEERING @ AHALIA

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* Computer Science
* Electrical & Electronics
* Electronics & Communication
* Mechanical

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ISO 9001:2015 Certified Institution. Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University

Ahalia Health, Heritage & Knowledge Village, Palakkad - 678557. Ph: 04923-226666, www.ahalia.ac.in

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ASET NEWS

A Monthly Newsletter of
Ahalia School of Engineering & Technology

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VISION

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

IN THIS ISSUE...

Principal's Message 3

Placements - Students placed in various companies 3

Staff Writeup 4

ASET Activities 5

Ahalia in Media 12

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PRINCIPAL'S MESSAGE

World Earth Day 2022



Dr. P. R. Sreemahadevan Pillai
Principal

Each year on April 22, billions of people across the globe join together to raise awareness about environmental protection. This global event is known as Earth day. Earth Day was first celebrated in the United States on April 22, 1970. Today around 1 billion people in 193 countries take part in Earth Day and resolve to protect the environment and biodiversity. Now, time has come for Earth Day 2022. In 1968, the US Public Health Service organized the Human Ecology Symposium. The event invited students to come and listen to scientists talking.Two years later, US senator and environmental activists Gaylord Nelson demanded the creation of an environmental agency. A massive protest was organized in which students from thousands of universities, schools, and communities took part. The date was April 22, 1970, the first Earth Day. The theme for Earth Day 2022 is "Invest In Our Planet". Earth Day Themes of the past were: 2021 – Restore Our Earth, 2020 – Climate Action, 2019 – Protect Our Species, 2018 – End Plastic Pollution, 2017 – Environmental & Climate Literacy, 2016 – Trees for the Earth, 2015 – It's Our Turn to Lead, 2014 – Green Cities, 2013 – The Face of Climate Change. 2012 – Mobilize the Earth, 2011 – Clear the Air, 2010 – A Billion Acts of Green, 2009 – How Do You Get Around, 2008 – Trees Please, 2007 – Be Kind to the Earth – starting from saving resources, 2006 – Science and Faith, 2005 – Healthy Environment for Children

How to Celebrate Earth Day 2022?

The date April 22 was chosen mainly to attract students. It's because most of the universities in the world start spring break in April. The Covid19 pandemic is still looming large. Therefore it's essential to ensure safety first. Still, here are some ways for students to celebrate Earth Day 2022:

- Read Poems: Students can write and read poems related to earth day.
- Take Virtual Tour to Forest and Aquarium: Spend some time with nature without leaving your house. There are multiple platforms online that allow you to take a virtual tour of forests or aquariums.
- Save Energy: The way we generate energy has a big impact on our planet. Therefore, this Earth Day, adopt energy-saving measures and help protect the planet.
- Pledge to Limit the Use of Plastic: The ill-effects of plastics are too many. Therefore, celebrate Earth day by limiting the use of plastics.
- Volunteer for Planet Saving Activities: Search online for Earth Day activities in your area. You may go on cleaning, awareness rallies, or other group activities.

We, humans, are trying very hard to decode the mysteries of space and reach other planets. But throughout the vastness of space, our precious tiny planet is the only place that can harbor life. Right now, it's the only place we have got. And it needs saving from the very species that claim to be the most intelligent on this planet. Earth Day is not just a movement, it's a hope that everything's not lost. That we still care for our planet and are ready to do whatever it takes to protect it. Make sure to participate, to take action, a step toward a better and safer tomorrow.This is the moment to change it all — the business climate, the political climate, and how we take action on climate. Now is the time for the unstoppable courage to preserve and protect our health, our families, our livelihoods… together, we must Invest In Our Planet. Because a green future is a prosperous future. We need to act (boldly), innovate (broadly), and implement (equitably). It's going to take all of us. All in Businesses, governments, and citizens — everyone accounted for, and everyone accountable. And while there is still time to solve the climate crisis, time to choose BOTH a prosperous and sustainable future, and time to restore nature and build a healthy planet for our children and their children, time is short.

STUDENTS PLACED IN VARIOUS COMPANIES

Congratulations to our students...!

Placed

@

experion technologies



Shafna N.
B. Tech - ECE
(2018 - 22)



Akshay K. S.
B. Tech - CSE
(2018 - 22)

@
Placed

Mindtree

RECALLS AT TWILIGHT



Anand Haridas
Asist.Prof, ICSE

It's almost 6 pm, the entire locality is in a heightened festive mood, the beats of 'traditional drum' alongside the hymns rendered by the traditional folkloric 'god form' has made the environment very much pristine and devout as though the almighty himself has come down to this place to shower his blessings upon his eternal children. Amidst this divine locale moves Joe, a petty thief who is on the run. Joe is in disguise of an aged man who moves browsing through the various makeshift shops that has been set as part of the feast. Another person in disguise of a vagabond follows Joe, without Joe realizing that he is being followed. This vagabond is a sensible cop who believes in conquering the culprits after sensitizing them about the intensity of their misdeeds, and he is here to nab Joe. On the parallel side another man is seen in black attire, he moves seemingly mingling through the various makeshift eateries, he is being closely followed by a person with a lantern in his hand, and he is in all white.

After treading some distance Joe and the person in black attire crosses their path without colliding each other. They are being meticulously followed by the vagabond and the person with the lantern respectively. After covering some more distance the vagabond befriends Joe without revealing his actual intention and whereabouts, over the course of their encounter both of them develops a strong friendship and rapport. Now the vagabond invites Joe to a house nearby; he follows the vagabond to that house. The house was in complete tatters and it wore an intense haunted look. It was so poorly lit that one wouldn't be able to sense such a brick-mortar structure stood there. Inside that dilapidated house lies a person on one corner in an extremely pathetic condition. This man has been bedridden for the past many years due to paraplegia. Vagabond narrates the story of this person to Joe. He had resisted a burglary attempt some years ago, in the process he was stabbed badly by the burglar somewhere near the spine which left him paralyzed forever and since that incident he was leading a life of penury, without anyone to look after him.

Joe stood hearing the story of this man with a tinge of remorse. No words could explain the kind of predicament this bedridden man is in. This moved Joe, and it made him extremely saddened; he felt the pain deep inside his heart, as he himself was a small time thief who indulged in similar acts. Joe remained in intense pain thinking about the terrible and horrendous life of the bedridden person. Before Joe could say anything, the vagabond seemingly consoled and gave a pat on his shoulder and asked him mildly- "shall we go? I don't feel like handcuffing you." Now Joe realizes the truth that vagabond was indeed a cop, follows him without even the faintest of resistance; on his return way Joe crosses the path with the person in black attire once again. This time too, without colliding each other. The person with the lantern is moving close behind the person in black attire.

After covering some distance both, person with lantern and person in black attire reaches a place with an intense lighting, this lighting is throwing huge gigantic shadows of anyone who stood directly in front of it, the person in black attire just stood there in complete astonishment as though he had reached a Meta world. After an instant or two, he noticed that the two people who stood beside him had cast huge shadows of theirs on to the ground that was amazingly textured but to his absolute disbelief he couldn't find out his own shadow. He was awe struck for a moment, he tried his level best to produce one, and in spite of all the efforts he couldn't cast one. Before he could move away from that place someone asks him from behind- "shall we go for now? Hope you are convinced to the core." He looks back to see who it was. It was the one with the lantern in his hand and the intense white light that emanated from the lantern just penetrated him making him instantly realize that he had indeed lost his gross body somewhere sometime earlier and was now in an altogether different vibratory form. After a momentary hiatus, with a disarming attitude he follows the person with the lantern steadfast. As they move along, another lit lantern is seen fast approaching from horizon as though in search of someone else….

A TRAINING PROGRAM ON ETHICAL HACKING

Ahalia School of Engineering and Technology in collaboration with Explore IT services conducted a training program on Ethical Hacking on 11 March 2022. The program was intended to expose students towards Ethical Hacking. More than 120 first year students from all branches of engineering attend the program

.

The trainer explained the theory of cyber security and provided a real time hands on for the students. Many of the popular social networking sites and the security issues that arise were explained with demonstrations.



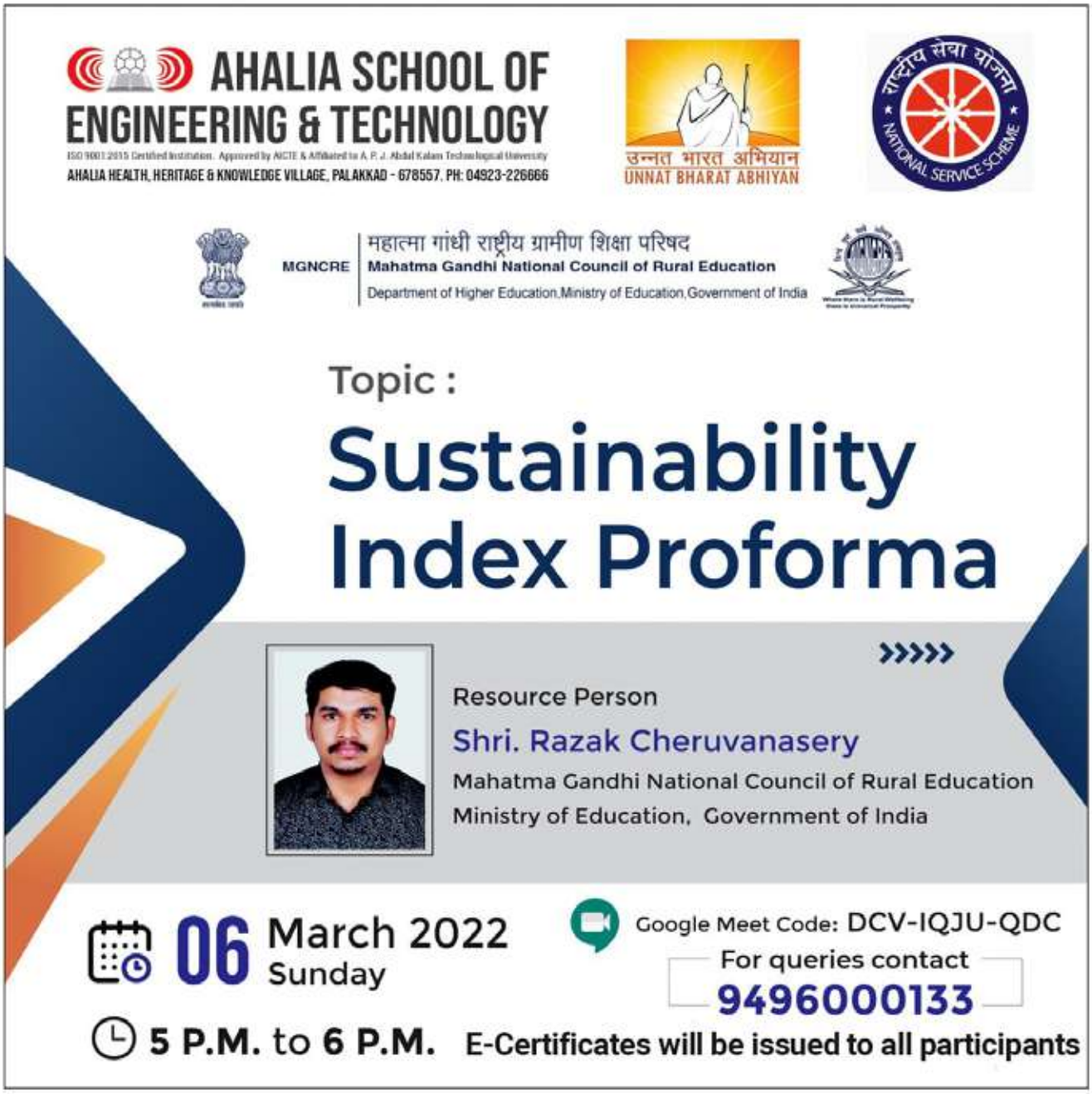
INTERNATIONAL WOMEN'S DAY CELEBRATION

Ahalia School of Engineering and Technology celebrated International Women's Day, Shakthi Bandhan 2K22 with zeal and fervor on 08 March 2022. All-female staff and students formed a human chain to show solidarity to each other and also vowed to empower one another. All male staff and students applauded to show their support. Ms. Sneha Raghunath, S8, ECE offered the welcome address, Prof. Kripa K. M., Convenor, ASET Women Grievance and Empowerment Cell presided over the event. The inaugural address was offered by Dr. P. R. Sreemahadevan Pillai, Principal, ASET and Mr. Devaraj R, Chairman, Student Council offered the felicitation address. This spectacular event was coordinated by Prof Roshan Sanu, ASET NSS Program Officer and Ms. Bindu Valoor, Manager-Academics Outreach.



WORKSHOP ON SUSTAINABILITY INDEX PROFORMA

Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India in association with Ahalia School of Engineering and Technology organized a workshop on Sustainability Index Proforma. This program aims at making students and staff aware of resource utilization and how sustainable development can be incorporated in the college campus. Dr. P. R. Sreemahadevan Pillai, Principal, ASET presided over the event. Mr. Razak Cheruvanasery, Resource Person, MGNCRE explained the need for such awareness and how the Proforma can be filled properly.



That was a nice session. Many people participated in the program. The program concluded at 6 p. m.

INTERNATIONAL DAY OF HAPPINESS

Ahalia School of Engineering and Technology celebrated International Day of Happiness on 20 March 2022 in association with UBA, NSS, ASET Literary Club and Ahalia Forum.

The event was presided by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. 10 esteemed discussion leaders expressed their views on what happiness meant to them. The discussion leaders are:-



Dr. Amar S. Fettle, State Nodal Officer, Adolescent Health, NHM, Government of Kerala. **Dr. Parvathy Warrier,** President, Palakkad District Development Initiative. **Dr. Latha Nair**, Project Director, Industrial Operations Research Group. **Dr. P. Murali**, Former Principal, Govt. Victoria College, Palakkad. **Dr. Sudhodanan**, Retired Deputy Director, Animal's Husbandry Dept. Govt. of Kerala. **Smt. Bhuvaneswari P.**, Karshakasri Award 2022 Winner. **Shri. Muhammad Kasim**, Retired DYSP. **C A Rajeev Ramanathan**, Partner, Jayarajan Associates. **Ms. Bindhu C. K.**, HoD, Dept. of Electronics Engineering, Govt. Polytechnic College, Palakkad. **Shri. Parthasarathi R.**, Consultant Psychologist.

The participants also expressed their views on how they distinguish between happiness and pleasure and what happiness really mean to them.

The program was well received by the participants. Rather than a monologue, this event turned out to be an interactive discussion.

Vote of Thanks was proposed by Prof. Roshan Sanu Convenor, Youth Against Alcohol & Drugs.

Ms. Bindu Valoor, Manager Academics Outreach offered the welcome address and also coordinated this event.



WORLD POETRY DAY

Ahalia School of Engineering and Technology celebrated World Poetry Day on 21 March 2022 in association with UBA, NSS, ASET Literary Club, and Ahalia Forum.



This program was presided by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. Shri. Vayalar Sarathchandra Varma inaugurated the event by giving a poetic speech.

10 notable poets recited their poems and made the occasion memorable. The poem written by Dr. P. R. Sreemahadevan Pillai was recited by Ms. Megha, S8, ECE, ASET
Dr. R. Ravindran Nair's poem was recited by Prof. K. R. Sethulakshmi.
Following poets recited their own poems:

Dr. Subhashini Mahadevan
Shri. Mohan Chettoor
Smt. Suguna Santhosh
Shri. Murali S. Kumar
Smt. Sheeja Kannan
Dr. Sreenathan S.
Shri. Kallara Ajayan
Dr. Abdul Shukkur

The welcome address was offered by Shri. Lal S., Secretary, ASET NDLI Club and vote of thanks by Prof. Preeja V., Coordinator, ASET UBA. Prof. Prabha anchored the event efficiently. This program was coordinated by Ms. Bindu Valoor, Manager-Academics Outreach.

Ms. Bindu Valoor, Manager Academics Outreach coordinated this event.



WORLD WATER DAY

Ahalia School of Engineering and Technology celebrated World Water Day on 22 March 2022 in association with IEEE, ASET IQAC, ISTE Ahalia Chapter,IEDC, IIC, UBA and NSS

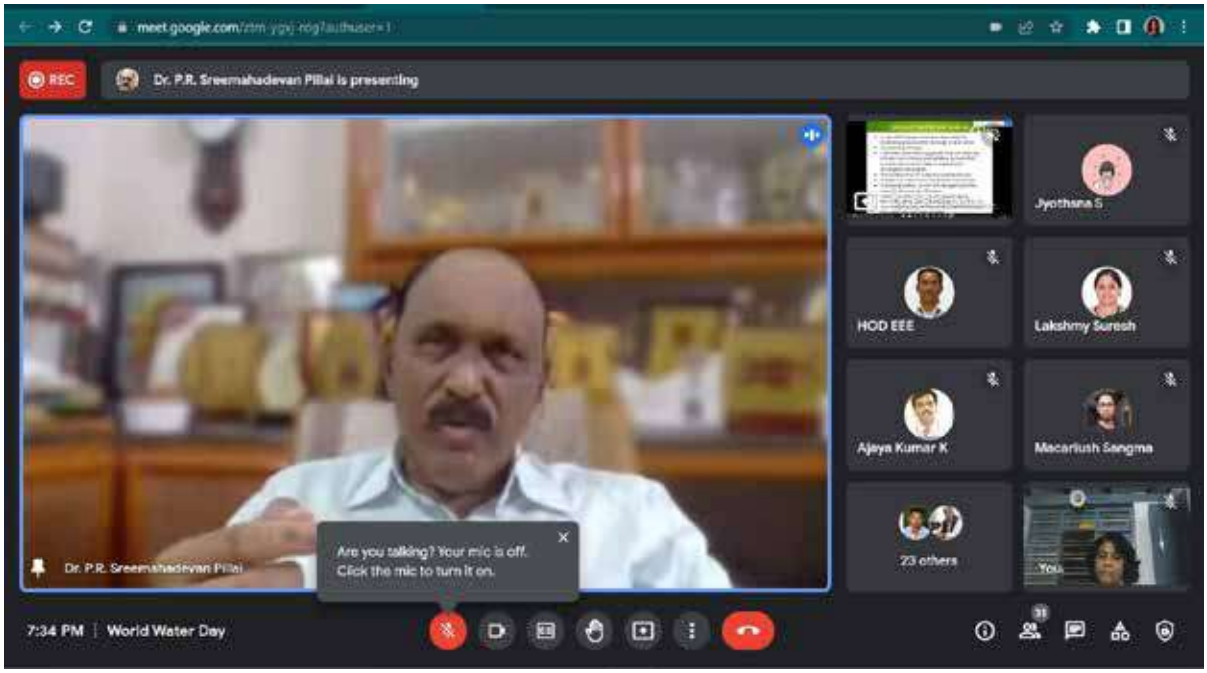


Welcome address was offered by Prof. Lakshmy Suresh, Nodal Officer, ASET IEDC. Dr. Murugananth, Secretary, ISTE, Ahalia Chapter and Coordinator, ASET IQAC presided over the event.

Dr. P. R. Sreemahadevan Pillai, Principal, ASET offered a thought-provoking keynote address. He said if water conservation remains ignored, the devastation is imminent.

Dr. Mahima Ganeshan, President, ASET IIC offered the vote of thanks. Ms. Jyothsna Bhadra, S8, ECE anchored the program.

Ms. Bindu Valoor, Manager Academics Outreach coordinated this event.



WHEN WILL LIFE ON EARTH END?

Tech Talk Series is an initiative of Ahalia School of Engineering and Technology, Palakkad, which explores relevant topics, that prompts the participants to ponder deep, thereby igniting critical as well as creative thinking.

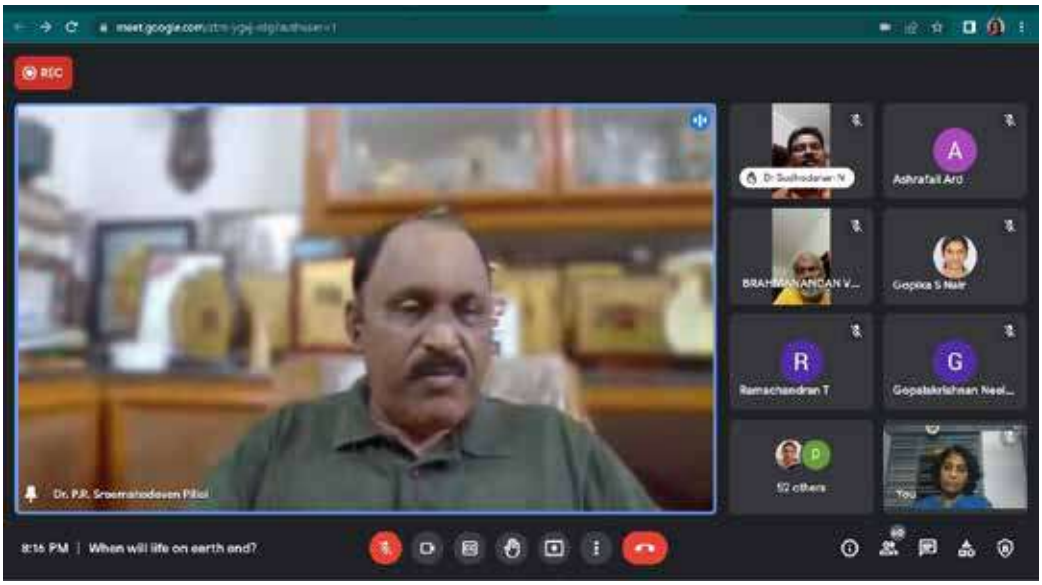


Tech Talk Series 002: When will life on earth end?, was organized in association with IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 28 March 2022.

Dr. P. R. Sreemahadevan Pillai, Principal, ASET was the resource person. The session dealt with various predictions and facts about the formation of the earth, the earlier partial extinctions that the earth faced, and what could be the reasons due to which the earth can become totally extinct.

The event was presided over by Dr. Murugananth G., Secretary, ISTE Ahalia Chapter and Coordinator, ASET IQAC. Mr. Akshay Kannan, CEO, ASET IEDC offered the welcome address. Prof. Sangeetha P. S. , Joint Secretary, ISTE Ahalia Chapter proposed the vote of thanks. Prof. Gopika S. Nair anchored the event enthusiastically.

This event was coordinated by Ms. Bindu Valoor, Manager-Academics Outreach, Ahalia Group, Palakkad



ONE-DAY TRAINING PROGRAM FOR CIVIL ENGINEERS AND SUPERVISORS

A one day Training Programme for Civil Engineers & Supervisors was organized on 25 March 2022 in association with Chettinad Cements and Department of Civil Engineering, ASET. The programme was inaugurated by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. The sessions were handled by Dr. P. R. Sreemahadevan Pillai, Principal, ASET on 'Construction Materials – An Overview', Er. B. Suresh, All India Technical Head, Chettinad Cement Corporation Pvt Ltd. on 'Precast Concrete Technology – A Case Study', Kripa K. M., HOD, Dept. of Civil Engineering, ASET on 'Test on Rheological Properties on Concrete', Dr. Mahima Ganeshan, Assistant Professor, ASET on 'Special Concretes', and Vivek V. S., Assistant Professor, ASET on 'Concrete Mix Design as per IS 10262-2019'. The participants including contactors, engineers, supervisors and ASET staff and students benefitted from the technical sessions.



SLOGAN MAKING COMPETITION

YAAD (Youth Against Alcohol and Drugs) Committee of Ahalia Group of Institutions conducted a slogan making competition for High School and Higher Secondary school students in Palakkad District. The main objective of the programme was to create anti-drug awareness among students. 53 Students from 21 schools participated in the competition. Winners are:

English slogan:-Shifa.K(9th Std., Vijayamatha Convent Higher Secondary School, Chittur)
Malayalam slogan :- Pooja Jagadeesh(9th Std., Vijayamatha Convent Higher Secondary School, Chittur)



AHALIA IN MEDIA

Vanamithra (Friend of Forest) award for Ahalia.



രാജ്യാന്തര വനദിനാചരണം: ജില്ലയിൽ പ്രത്യേക പരിപാടികൾ

15 മുതൽ 21വരെ

പാലക്കാട് • രാജ്യാന്തര വനദിനാചരണത്തിന്റെ ഭാഗമായി ജില്ലയിലെ സാമൂഹിക വനവൽക്കരണ വിഭാഗം പ്രകൃതിയെ അറിഞ്ഞും അനുഭവിച്ചും 15 മുതൽ 21വരെ പ്രത്യേക പരിപാടികൾ നടത്തും.

15നു രാവിലെ 8നു പാലക്കാട് വനസംരക്ഷണ ബോധവൽക്കരണ സൈക്കിൾ റാലിയോടെ വനദിനാചരണത്തിനു തുടക്കം കുറിക്കും. 16നു രാവിലെ 9 മുതൽ ധോണിയിൽ ജൈവ തടയണ നിർമാണം നടത്തും. 17ന് ഉച്ചയ്ക്ക് 2നു പാലക്കാട് മേഴ്സി കോളജിൽ ജില്ലാ ഇന്റർ കോളജിയറ്റ് ക്വിസ് മത്സരം നടത്തും. 18നു വൈകിട്ട് 4.30ന് സ്റ്റേഡിയം ബസ് സ്റ്റാൻഡിനു സമീപം ഫ്ലാഷ് മോബ് നടത്തും.

19നു രാവിലെ 8 മുതൽ മലമ്പുഴ കവയിൽ പുഴയെ അടുത്തറിയൽ. 20നു രാവിലെ 8 മുതൽ നെല്ലിയാമ്പതി ചുരം വൃത്തിയാക്കലും വനത്തിലേക്കുള്ള നടത്തവും.

21നു രാവിലെ 10നു ധോണി ലീഡ് കോളജ് ഓഡിറ്റോറിയത്തിൽ വനദിനാചരണം. ജില്ലാ പഞ്ചായത്ത് അധ്യക്ഷ കെ.ബിനു മോൾ ഉദ്ഘാടനം ചെയ്യും. ചടങ്ങിൽ വനമിത്ര പുരസ്കാരം അഹല്യ ഫൗണ്ടേഷനു നൽകും. ലീഡ് കോളജ് ഓഫ് മാനേജ്മെന്റ്, മേഴ്സി കോളജ്, പാലക്കാട് ഹോർട്ട് ഫെഡൽ ക്ലബ്, നെന്മാറ സെന്റർ ഹോർ ലൈഫ് സ്കിൽ ലേണിങ്,നാചുറൽ ഗാർഡ്സ് ഓഫ് ഇന്ത്യ, ഇൻടാക്ക് പാലക്കാട് ചാപ്റ്റർ, പാലക്കാട് ഗവ.മോയൻസ് സ്കൂൾ,ബമ്മണ്ണൂർ ഗവ. ഹൈസ്കൂൾ,അലനല്ലൂർ ജിവിഎച്ച്എസ്എസ്,കാക്കയൂർ ഡിഎംഎസ്ബി സ്കൂൾ എന്നിവയുടെ സഹകരണത്തോടെയാണു വനദിനാചരണം നടത്തുന്നത്.

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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ASET NEWS

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Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

PRINCIPAL'S MESSAGE

SWARAJ PARV

A Souvenir "Swaraj Parv" was published on the auspicious occasion of the birth anniversary of Lokmanya Bal Gangadhar Tilak on 23.07.2021. All India Council for Technical Education has requested the engineering colleges in India to cooperate in the event. Lokmanya Bal Gangadhar Tilak was a great patriot who inculcated patriotism in the Indian youth that helped people of India to achieve Swaraj, for which they sacrificed everything. During the freedom movement, Lokmanaya Bal Gangadhar Tilak was the first to propagate the principle of National and Political unity. In one of the statements, Mahatama Gandhi said that "generations to come, will remember Lokmanya Bal Gangadhar Tilak as the father of modern India.



Dr. P. R. Sreemahadevan Pillai
Principal

Tilak, the freedom fighter

Bal Gangadhar Tilak (or Lokmanya Tilak), was the first leader of the Indian independence movement. The British colonial authorities called him "The father of the Indian unrest." He was also conferred with the title of "Lokmanya", which means "accepted by the people (as their leader). Tilak was one of the first and strongest advocates of Swaraj ("self-rule") and a strong radical in Indian consciousness. He is known for his quote in Marathi: "Swarajya is my birthright and I shall have it!". He formed a close alliance with many Indian National Congress leaders including Bipin Chandra Pal, Lala Lajpat Rai (the trio independence fighters were popularly known as Lal, Bal & Pal), Aurobindo Ghose, V.O. Chidambaram Pillai and Muhammad Ali Jinnah. Tilak (23 July 1856 – 1 August 1920), was born in a Marathi Hindu Chitpavan Brahmin family in Ratnagiri, the headquarters of the Ratnagiri district of present-day Maharashtra (then Bombay Presidency). His ancestral village was Chikhali. His father, Gangadhar Tilak was a school teacher and a Sanskrit scholar who died when Tilak was sixteen. In 1871, Tilak was married to Tapibai (Née Bal) when he was sixteen, a few months before his father's death. After marriage, her name was changed to Satyabhamabai. He obtained his Bachelor of Arts in first class in Mathematics from Deccan College of Pune in 1877. He left his M.A. course of study midway to join the L.L.B course instead, and in 1879 he obtained his L.L.B degree from Government Law College. After graduating, Tilak started teaching mathematics at a private school in Pune. Later, due to ideological differences with the colleagues in the new school, he withdrew and became a journalist. Tilak actively participated in public affairs. He stated: "Religion and practical life are not different. The real spirit is to make the country your family instead of working only for your own. The step beyond is to serve humanity and the next step is to serve God."

Tilak, the educationalist

Inspired by Vishnushastri Chiplunkar, he co-founded the New English school for secondary education in 1880 with a few of his college friends, including Gopal Ganesh Agarkar, Mahadev Ballal Namjoshi and Vishnushastri Chiplunkar. Their goal was to improve the quality of education for India's youth. The success of the school led them to set up the Deccan Education Society in 1884 to create a new system of education that taught young Indians nationalist ideas through an emphasis on Indian culture. The Society established the Fergusson College in 1885 for post-secondary studies. Tilak taught mathematics at Fergusson College. In 1890, Tilak left the Deccan Education Society for more openly political work. He began a mass movement towards independence by an emphasis on a religious and cultural revival.

In the history of Indian independence, Tilak remains a golden dot. Our tribute to the great son of India

CONGRATULATIONS

Congratulations to Ajay Prakash Nair, Navas Sheriff and Sharfana N. M. for being placed at Accenture and Diya S. B. for being placed at Think Palm Technologies Pvt. Ltd.





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ASET ALUMNI ASSOCIATION OFFICE BEARERS



'CHASTE' DAYS



Anand Haridas
AP - CSE

Perhaps, all the goodness, the unbridled wellness, the entire fineness and much more, that a pleasant sunny day offers to a living being would get significantly overshadowed if we were able to sense and acknowledge the potential offerings of a 'chaste' day, to the human brain and the entire physical system, that are in store. A plant can only be as healthy and attractive as to the measure of nutrients and goodness that it absorbs from the natural sunlight and its immediate surroundings during its formative stages, similarly a human being can only be as energetic, radiant and magnetic as to the measure of vitality that it preserves through unwavering abstinence and extreme austerity.

Chastity, celibacy and continence has always been considered as the apex virtues at least in these parts of the world, which has been endorsed and practiced upon by a number of mystics and saintly figures who had stood and continues to stand as the colossus in the rich heritage of our nation by having vociferously advocated this thought stream, which eventually has substantially contributed to the evolution of a much sought after, unique culture which could very well be termed as the 'Indianness'. But unfortunately of late we have been witnessing a large and an unceasing erosion of this 'Indianness' due to some or the other factors which probably is beyond the scope of this writing.

The highest form of energy that is present in a living being is the one that enables progeny, rather the only materialistic pursuit of this highest energy or this vitality in a living being is to create a favorable environment for all those 'souls-in-waiting' to come over to this planet earth, occupy a physical body, and subsequently work out their accrued duties, which could very well be discerned through the various stages that a soul goes through on this planet earth starting right from the birth and culminating at death. But due to the absolute ignorance and the altered thought patterns of the present day humans, this vitality has been unscrupulously 'let off'. And this has been happening as a result of our inability to acknowledge the fact that the vitality in a living being is created through an arduous journey that starts from the assimilation of the food consumed in the intestines and the one that culminates at the formation of a very tiny measure of vitality. And this journey takes whole lot of days and considerable internal processes. To put it straight, the tiniest measure of vitality is produced out of forty droplets of blood, rather forty drops of blood culminates at the manifestation of a miniscule measure of vitality.

Apart from the materialistic purpose of this vitality, the other major intend of it is to enable an individual to get ignited with the process of renunciation, something which is an extremely daunting and a laborious task that could probably span through innumerable lifetimes of an individual and that requires many a skills, the prominent ones being intense concentrative and meditative skills which in turn requires an unwavering and an unbroken energy stream that keeps one extremely placid. And this energy comes from nowhere other than the one that has been very carefully preserved through utmost austerity in our day to day affairs. The energy that has been preserved with great care remains tanked in the brain through a gradual process, just like a physical container when all of its pores are plugged, the essence inside it remains intact and now this essence could be used wisely by selectively choosing the exit.

The modern science has recurringly proved that energy can never be created it can only be converted from one form to another and this converted rather transmuted form of higher energy in a living being often referred to as the 'ojas', the one that gets accumulated in the brain after traversing through various plexus or nerve centers within a human body, is the one that determines the soundness of an individual's existence. The one who is sufficiently replete with this energy is literally 'full of life', justified by the powerful glowy eye that magnetically draws all the living beings towards this being, akin to a magnet that pulls all those materials that are potentially magnetisable towards itself. Such a being would be infallible forever and always speaks, acts, walks with utmost conviction, in short these beings would literally be 'magnets in motion'....

(This writing has been conveniently veiled, to suit reader's temperament)

വിധവ



Anima P. S.
Admin Asst.

എന്റെ സുമിത്ര ... നീയിങ്ങനെ ചടച്ചുകൂടി ഇരുന്നിട്ട് എന്താ കാര്യം??
എന്റെ മോള് പുറത്തേക്കെല്ലാം ഒന്നിറങ്ങ്.. എന്നും ഈ മുറിയിൽ തന്നെ കഴിയാൻ ആണോ ഭാവം,,

ചെറിയമ്മയുടെ വാക്കുകൾ കേൾക്കുന്നുണ്ടെങ്കിലും മറുപടി ഒന്നും പറയാതെ ഇരുട്ട് നിറഞ്ഞ മുറിക്കുള്ളിൽ ഒരു ജീവശവമായി കഴിഞ്ഞു കൂടിയിട്ട് നാളുകളെറെയായി.. നാലു വയസുള്ള മകൾ ഇടയ്ക്കിടക്ക് അവളുടെ അരികിൽ വന്ന് അമ്മേ അച്ഛനെവിടെയെന്ന് ചോദിക്കുന്നുണ്ട്.. ഗൾഫിൽ നിന്ന് ഭർത്താവ് രവിയുടെ മൃതദേഹം എത്തിയതിനു ശേഷം ശേഷ ക്രിയകൾ കഴിഞ്ഞുവെങ്കിലും ആ ആഘാതത്തിൽ നിന്ന് ഇപ്പോഴും അവൾ കരകയറിയിട്ടില്ല.. മരണാനന്തര ചടങ്ങുക്കളുടെ ഭാഗമായി വെള്ള സാരി അവൾക്കു നൽകി ആദ്യമായി അവളെ വിധവയെന്ന് മുദ്ര കുത്തി..അതെ അവൾ ഒരു ഭർത്താവ് മരിച്ച സ്ത്രീ ആണ് എന്ന ഓർമ്മപ്പെടുത്തൽ ജിവിതത്തിലുടനിളം അവൾക്കുണ്ടായിക്കണം.അതിനു വേണ്ടിയായിരിക്കണം ആ വസ്ത്രങ്ങൾ അവൾക്കു സമ്മാനിച്ചത്..

ഇരുപത് വയസ്സ് തികയും മുൻപേ വിവാഹം കഴിച്ചു കൊടുത്തതാണ് സുമിത്രയെ. സാമ്പത്തികമായി പിന്നാക്കം നിൽക്കുന്നതു കൊണ്ടു തന്നെ നല്ലൊരു ബന്ധം വന്നപ്പോൾ അവർ അത് ഉറപ്പിച്ചതാണ്. വിവാഹത്തിനുശേഷം സുമിത്രയുടെ സഹായം കൊണ്ടാണ് അവളുടെ അച്ഛനും അമ്മയും കഴിഞ്ഞിരുന്നത്. തന്റെ എല്ലാ പ്രതിക്ഷകളും ഒരു നിമിഷം നേരം കൊണ്ട് ഇല്ലാതായിരിക്കുന്നു.. ഗർഫിലെ ഒരു വാഹനപകടത്തിലാണ് രവി മരണപ്പെട്ടത്. ഇനിയുള്ള ജീവിതത്തിൽ എന്ത് ചെയ്യണം എന്നറിയാതെ ഊണും ഉറക്കവുമില്ലാതെ അവൾ ദിവസങ്ങളോളം ആ നാലു ചുമരുകൾക്കുള്ളിൽ ഒതുങ്ങി... ഇനി ഞാനും എന്റെ മകളും എല്ലാവർക്കും ഒരു ഭാരമാകില്ലെ?? എന്ന ചോദ്യം അവളിൽ അസ്വസ്ഥതയുണർത്തി...ഇപ്പോൾ തന്നെ ഞാൻ ഒരു ഭാരമാണ് ഞാൻ സ്വയം ചെയ്തിരുന്ന ആവശ്യങ്ങൾ പോലും എനിക്ക് മറ്റുള്ളവരാണ് ചെയ്തു തരുന്നത്. ഇനിയും അവരെ ബുദ്ധിമുട്ടിച്ചൂടാ...

ഇവൾ ഇത് എന്ത് ഭാവിച്ചാ... എന്നും നമ്മുക്ക് ഇവിടെ നിൽക്കാൻ പറ്റ്വോ.. വീടും കുടിം ഇട്ടെറിഞ്ഞ് വന്നിട്ട് നാള് കുറെയായില്ലെ.. അടുക്കളപ്പുറത്തിരുന്ന് രവിയുടെ ബന്ധുക്കൾ പിറുപിറുക്കുന്നുണ്ടായിരുന്നു..

അവൾ പതിയെ യഥാർത്ഥ്യത്തിലേക്ക് വരാൻ തുടങ്ങി.ഇനിയുള്ള നാളുകൾ എന്റെ മകൾക്കു വേണ്ടിയുള്ളതാണെന്ന് അവൾ സ്വയം ചിന്തിച്ചു. കുറച്ചുപേരുടെ ഇടപെടൽ കൊണ്ടും നല്ല വാക്കുകൾ കൊണ്ടും ജീവിക്കുവാനുള്ള പ്രേരണ അവളിലുണ്ടാക്കി..എന്റെ മകൾക്ക് സ്കൂളിൽ പോകണമെങ്കിൽ നല്ല ആഹാരം ലഭിക്കണമെങ്കിൽ, അച്ഛനെയും അമ്മയെയും സഹായിക്കണമെങ്കിൽ ഒരു ജോലി അത്യാവിശ്യമാണ്.. ഒടുവിൽ ഒരു ടെക്സ്റ്റയിൽ ഷോപ്പിൽ ജോലി കിട്ടിയ അവൾ പോകാനായി തീരുമാനിച്ചു.നിലവിലുള്ള എല്ലാ വലിയ ഷോപ്പുകളിലും അവരുടെതായ ഒരു പരിഷ്ക്കാരം നിലനിൽക്കുന്നണ്ടല്ലോ.. മുടി പുട്ട് അപ്പ് ചെയ്ത് യൂണിഫോം ധരിച്ച് തിരക്കേടില്ലാത്ത മേക്ക് അപ്പും വേണം.. ഒരുപാട് ചിന്തിച്ചു നോക്കിയെങ്കിലും തനിക്ക് ഇപ്പോൾ വേണ്ടത് ഒരു ജോലി തന്നെയാണ്. തരക്കേടില്ലാത്ത ശമ്പളവുമുണ്ട്. അതുകൊണ്ട് അവൾ പോകുവാൻ തന്നെ തീരുമാനിച്ചു..

നമ്മുടെ രവിയുടെ ഭാര്യയല്ലെ പോകുന്നെ.. അവളാകെ മാറിയല്ലോ.. ഒരു ഭർത്താവ് മരിച്ച പെണ്ണ് ഇങ്ങനെയാണോ നടക്കേണ്ടത്.. കഷ്ട്ടം തന്നെ..

അവളുടെ പോക്കും വരവും ശ്രദ്ധിക്കാൻ വീട്ടുകാരും നാട്ടുകാരും ഉണ്ടായിരുന്നു.. നാടു നീളെ അവളെക്കുറിച്ചാണ് സംസാരം.. അവൾ പൊട്ടു തൊടുന്നുണ്ടോ, സിന്ദൂരം തൊടുന്നുണ്ടോ,നല്ല സാരി ഉടുക്കുന്നുണ്ടോ അന്വേക്ഷണങ്ങൾ പലതാണ്.അവൾ കഴിക്കുന്നുണ്ടോ ഉറങ്ങുന്നുണ്ടോ തുടങ്ങിയ കാര്യങ്ങൾ അന്വേഷിക്കാൻ ആരും ഉണ്ടായിരുന്നില്ല.. വിധവയായ ഒരു പെണ്ണിന്റെ ജിവിതം എങ്ങനെയാവണം എന്ന് തീരുമാനിക്കുന്നത് സമൂഹം ആണെന്ന് അവൾക്കു തോന്നി.. മറ്റുള്ളവരുടെ പറച്ചിലുകൾ അവളുടെ ജോലി നഷ്ടപ്പെടുത്തിയിരിക്കുന്നു.. ഇനിയെന്താണ് താൻ ചെയ്യേണ്ടത്.സമൂഹത്തിന്റെ കാഴ്ച്ചപ്പാടുകൾ അവളെ വല്ലാതെ അലട്ടിയിരുന്നു.. വീണ്ടും അവളെ ചുമരുകൾക്കുള്ളിൽ തളച്ചിടാൻ ആണ് ശ്രമിക്കുന്നത്. തന്റെ മകളുടെ ഭാവിയെ കുറിച്ചോർത്ത് താൻ ധൈര്യവതിയായെ പറ്റൂ.. ഇനിയും മറ്റുള്ളവരുടെ പരിഹാസപാത്രമാവാൻ തനിക്ക് പറ്റില്ല.. ഒരു ജോലിക്കായ് അവൾ പല വാതിലുകളിലും മുട്ടി.. വിധവയായ പെണ്ണിനെ കിടപ്പറയിലേക്ക് ക്ഷണിച്ചവരും അകൂട്ടത്തിൽ ഉണ്ടായിരുന്നു.. ഇനിയവളിൽ അടിച്ചേൽപ്പിക്കുവനായി പിഴച്ചവൾ എന്ന പേര് മാത്രമാണ് അവശേഷിക്കുന്നത്..

സമനില തെറ്റിയ അവൾ തന്നെ തനിച്ചാക്കി പോയ ഭർത്താവിന്റെ അരികിലേക്ക് പോകാൻ തീരുമാനിച്ചു..ഇനിയും മറ്റുള്ളവരുടെ കുറ്റപ്പെടുത്തലുകൾ ഏറ്റു വാങ്ങാൻ വയ്യ.. ഇനിയുള്ള കാലം വിധവയെന്ന പദവുമായി കഴിയുന്ന പെണ്ണിന് സമൂഹം ഒരു ബഹുമതിയും സമ്മാനിക്കുന്നില്ല .. തന്റെ ജീവിതം ഒരുമുഴം കയറിൽ തീർക്കാമെന്നവൾ തീരുമാനിച്ചിരുന്നു.. മരിക്കുവനായി അവൾ കയർ എടുത്തപ്പോൾ അവളുടെ കയ്യുകൾ വിറക്കുന്നുണ്ടായിരുന്നു... തീക്ഷ്ണമായ കണ്ണുകൾ ചുവന്നു തുടുത്തിരുന്നു.. കുരിക്കിലേക്കായി കഴുത്തു നീട്ടിയ അവളെ കീഴ്പ്പെടുത്തി കൊണ്ടാണ് മകളുടെ അമ്മേ എന്നുള്ള വിളി കേട്ടത്...

ഞാൻ മരിക്കേണ്ടവൾ അല്ല... എന്റെ മരണം കൊണ്ട് സമൂഹത്തിന് നൽകുന്നത് തനിച്ചായ മറ്റൊരുവളെ ആയിരിക്കും.. ഒറ്റപ്പെടലിൽ ജീവിതം നഷ്ടപ്പെട്ടുപോയ എന്റെ മകളെ....

FESTA D'ADDIO 2021

The Student Council of Ahalia School of Engineering and Technology organized the first ever online farewell party 'FESTA D'ADDIO' for the 2017-2021 batch. The farewell event was conducted on 17 July 2021 at 5 p.m. in online mode. Dr. P. R.Sreemahadevan Pillai (Principal, Ahalia School of Engineering & Technology) and Dr. Krishna Kumar Kishor (Vice Principal, Ahalia School of Engineering & Technology) felicitated the students of 2017-2021 batch and blessed them for a wonderful professional career and peaceful personal life. All final year students, teaching and non-teaching faculty members participated in the event. Video collages of each department showing their memories during the college days were shown. The Heads of the Departments and faculty members of every department wished the students the very best for their upcoming future. Later the final year students shared experience of their college life in ASET. The event also included a variety of fun-filled games in which the students actively participated. The whole event was excellently organized by the third year students. The farewell event

Photos of our outgoing B. Tech. students.







WEBINAR ON INNOVATIONS IN THE FIELD OF CIVIL ENGINEERING

The Civil Engineering Department of Ahalia School of Engineering and Technology has conducted a webinar on the topic "Innovations in the field of Civil Engineering "on 30/06/2021. The session was delivered by Dr. P.R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology. He spoke about the various innovations in the field of Civil Engineering. He has also discussed the various Civil Engineering software which has been in trend nowadays and encouraged the students to develop excellence in any one of the software.

The session provided a keen knowledge about the latest trends in the field of Civil Engineering and created an insight into the modern equipment adopted in the construction industry. The webinar was really helpful and informative for all the participants.



ART COMPETITION

The Department of Civil Engineering conducted an art competition on 06-06-21 coinciding with World Environmental Day. There were a total of 11 participants who had sent the scanned copy of the art work through Google Form. The winners are:

First prize – Sneha Krishna, 1st year ECE, Ahalia School of Engineering and Technology
Second prize – Devika M. Manoj, Navajeevan Bethany Vidhyalaya, Nalanchira, Trivandrum
Third prize – Thasni S., 1st year ECE, Ahalia School of Engineering and Technology





Sneha Krishna
1st year ECE
Ahalia School of Engineering & Technology



Devika M. Manoj
Navajeevan Bethany Vidhyalaya
Nalanchira, Tvm





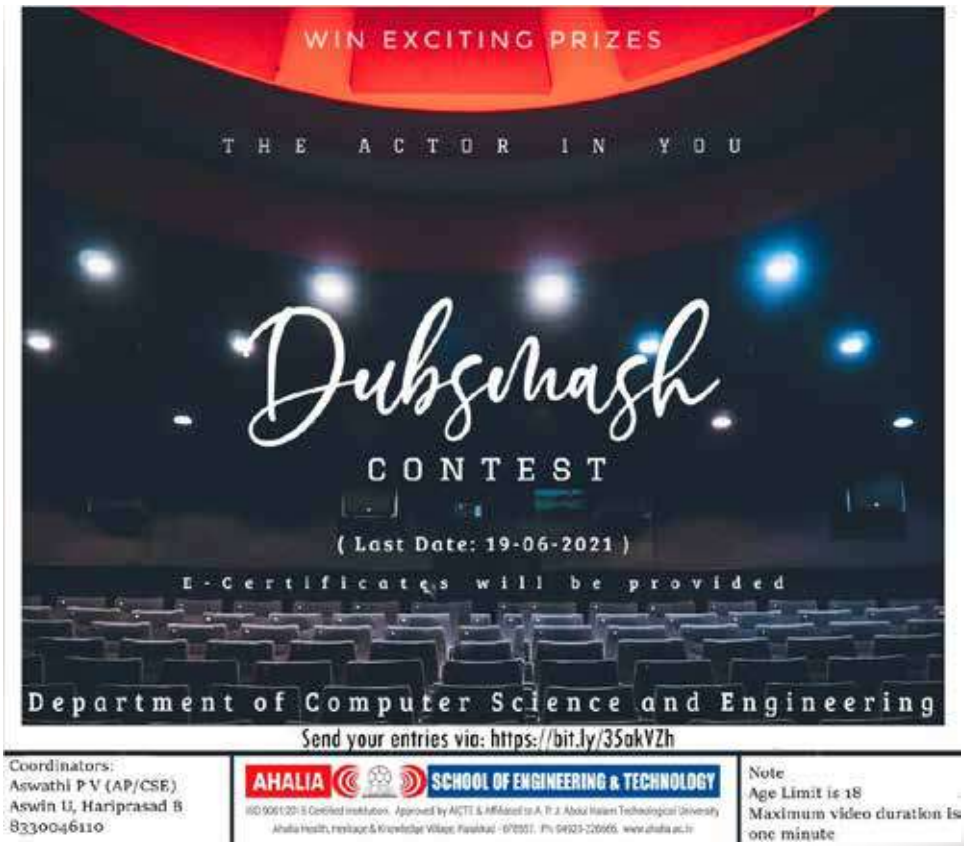
Third Prize



Thasni S.
1st year ECE
Ahalia School of Engineering & Technology

THE ACTOR IN YOU

A dubsmash competition named Actor in You was conducted on 19 June 2021. The participants uploaded acting videos of one minute duration. A total 19 students participated (three external, 16 internal). The event was coordinated by Aswin U., Hariprasad B. and Ms. Aswathi P. V. (Assistant Professor, CSE Department). The event was judged by Ms. Sruthy Sukumaran, Assistant Professor, CSE Department. The winner is Nanditha K., Vijayamatha Convent High School, Chittur, Palakkad.



ME & MY PLANT

The plant photography competition named 'Me & My Plant' was conducted on 14 June 2021. A total of 16 internal and external people participated. The plant craft ideas were judged by Ms. Aswathi P. V. (Assistant Professor, CSE, ASET). Ms. Swapna Radhakrishnan (S4, 2019-23 Batch, Civil Department) from Ahalia School of Engineering and Technology was the winner of the competition.





Swapna Radhakrishnan
2019 - 23 CE

ROBOTICS & AUTOMATION SOCIETY (RAS) SBC

The inauguration of the IEEE Robotics and Automation Society (RAS) Student Branch Chapter of Ahalia School of Engineering and Technology was held on 29 May 2021 virtually through Google meet. The function was attended by 161 participants (40 IEEE members). The Chief Guest for the occasion was Mr. Jayakrishnan T (Founder and CEO, ASIMOV Robotics Pvt. Ltd). He was accompanied by Dr. Jisha V. R. (Chair, IEEE Robotics and Automation Society, Kerala chapter). The event began with the welcome speech by Mr. Anirudh K (Chair, IEEE RAS Student Branch Chapter) followed by the presidential address by Dr. P. R. Sreemahadevan Pillai (Principal, Ahalia School of Engineering and Technology). In his inaugural address, Mr. Jayakrishnan T. talked about the benefits and future scope of Robotics, the necessity of enabling robotized intensive care unit, etc. Dr. Jisha V. R. spoke about the importance of Robotic concept in the present scenario and the activities of RAS Chapter in Kerala. Following the inaugural function, the felicitations were given by Dr. Krishna Kumar Kishor (IEEE Student Branch Chapter Counsellor and Vice Principal, Ahalia School of Engineering and Technology) and Prof. Aneesh. K (Advisor, RAS SBC, ASET). The ceremony concluded with vote of thanks by Mr. Sankulesh Narayanan M. (Vice Chair, IEEE RAS SBC).



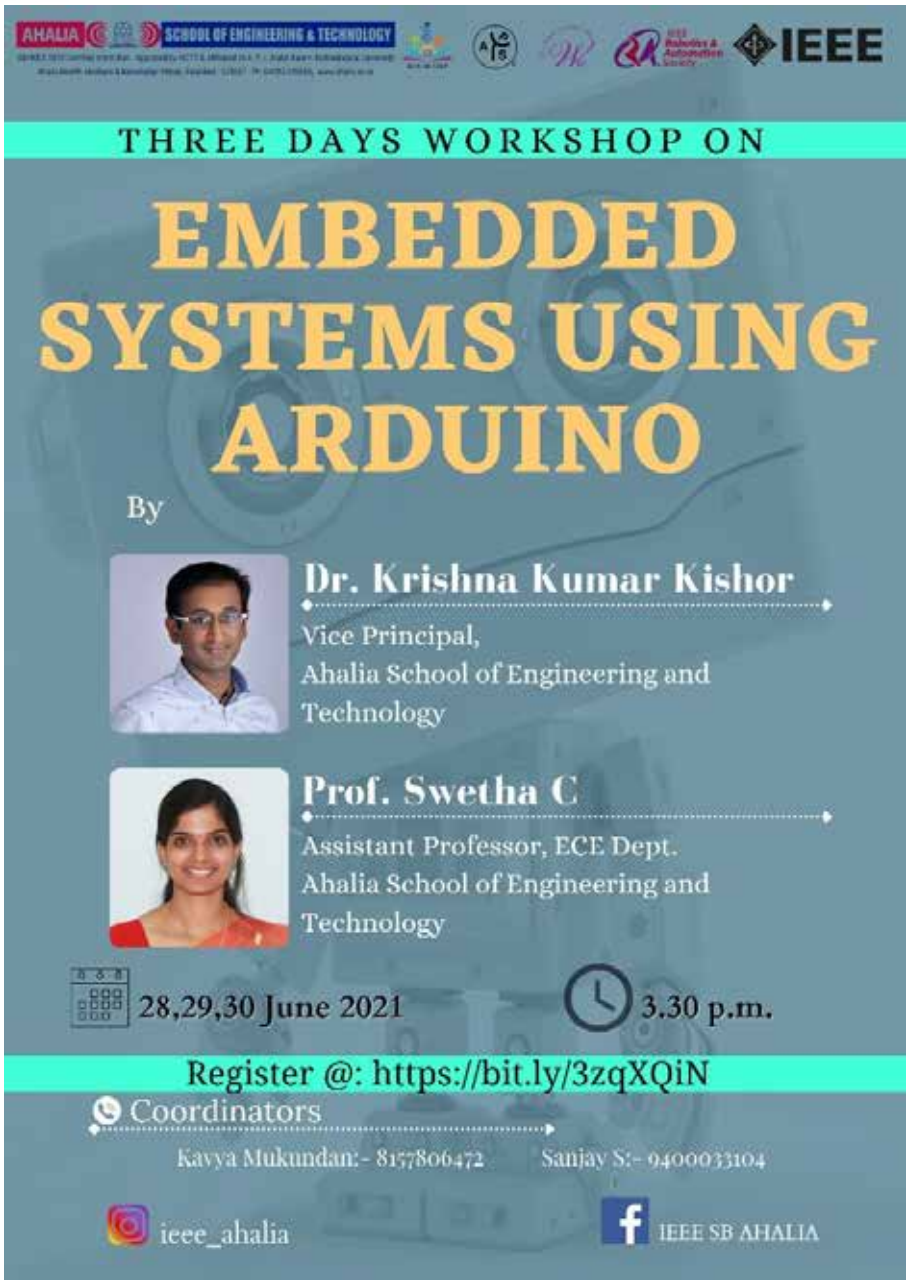
WORKSHOP ON EMBEDDED SYSTEMS USING ARDUINO

The IEEE Student Branch (SB) of Ahalia School of Engineering and Technology, coming under the IEEE Malabar Sub-Section of the IEEE Kerala Section, started operations on 6 May 2019. The primary goal of the student branch is to promote and orient students towards technical activities for the benefit of society.

The Department of Electronics and Communication Engineering in association with the IEEE Student Branch of Ahalia School of Engineering and Technology, Palakkad organized a three-day workshop titled “Embedded Systems Using Arduino” from 28 to 30 June 2021. A total of 69 participants attended the program (19 IEEE members and 50 non-IEEE members). The resource persons for the workshop were Dr. Krishna Kumar Kishor (IEEE Student Branch Counsellor and Vice-Principal, Ahalia School of Engineering and Technology) and Prof. Swetha C. (Assistant professor, Electronics and Communication Engineering Department, Ahalia School of Engineering and Technology). The workshop dealt with basics of electronics, embedded systems and real-time applications, Arduino familiarization and programming and simulations of simple embedded systems using Tinkercad. The event was coordinated by Mr. Sanjay S. and Ms. Kavya Mukundan of 3rd year ECE.

Event Objective:

- To provide insight on basics of electronics, embedded systems and real time applications
- To get familiarized with Arduino boards and Arduino programming
- To be able to simulate electronics circuits using Tinkercad



WEBINAR ON TRENDS IN ROBOTICS

The IEEE Student Branch in association with the Department of Electronics and Communication Engineering, IEEE RAS SBC, IEEE APS SBC and IEEE WIESB AG of Ahalia School of Engineering and Technology, Palakkad organized a webinar on "Trends in Robotics" on 12 June 2021 4 p.m. The session was handled by Ms. Athira Krishnan R., System Engineer in TCS and Treasurer and Joint Secretary of RAS Kerala Section. It was a one hour session from 4 p.m to 5 p.m. The session was attended by 85 participants (24 IEEE members, 61 Non-IEEE members). This webinar was the second event of our newly formed RAS SBC. In this session the speaker explained about the importance of robotics and the new trends in that field. The speaker showed some presentations of the different robots in the world and the technology behind that. It was a great opportunity for the students and the seniors who are working in the field to clear their doubts. This webinar was coordinated by Ms. Arya R. Krishna and Ms. Anjana R. of 2nd year ECE.



SEMINAR ON INTERNET OF THINGS

The Department of EEE and Ahalia ISTE Chapter organised a two-day seminar on Internet of Things on 18th and 19th June 2021. The program was attended by both students and faculty members of various institutions. The resource persons for the seminar were Prof. P. Hemalatha, Asst. Professor (CSE), IFET College of Engineering, Vilupuram, Tamil Nadu and Prof. B. Balaji, Asst. Professor (EEE), IFET College of Engineering, Vilupuram, Tamil Nadu. IoT is a recent and promising technology that is creating a huge impact in the world. The main objective of the seminar was to impart a basic knowledge about IoT and its opportunities to the participants and also to give an idea about how IoT can be used for industrial applications. Day 1 was based on the topic 'Internet of Things: Technologies, Challenges and Opportunities'. In this session, a clear idea about the technologies where IoT can be used and the challenges faced during implementation were discussed. Day 2 was based on the topic 'IoT-based Data Logging System for Industrial Applications'. In this session a video demonstration of how IoT can be applied for industrial applications was shown. Overall the session was effective for all the participants. The coordinators of the program were Dr. G. Murugananth (HoD, EEE), Ms. Veenaa Raj (AP, EEE) and Ms. Swathy M. V. (AP, EEE). Overall 60 people attended the program.



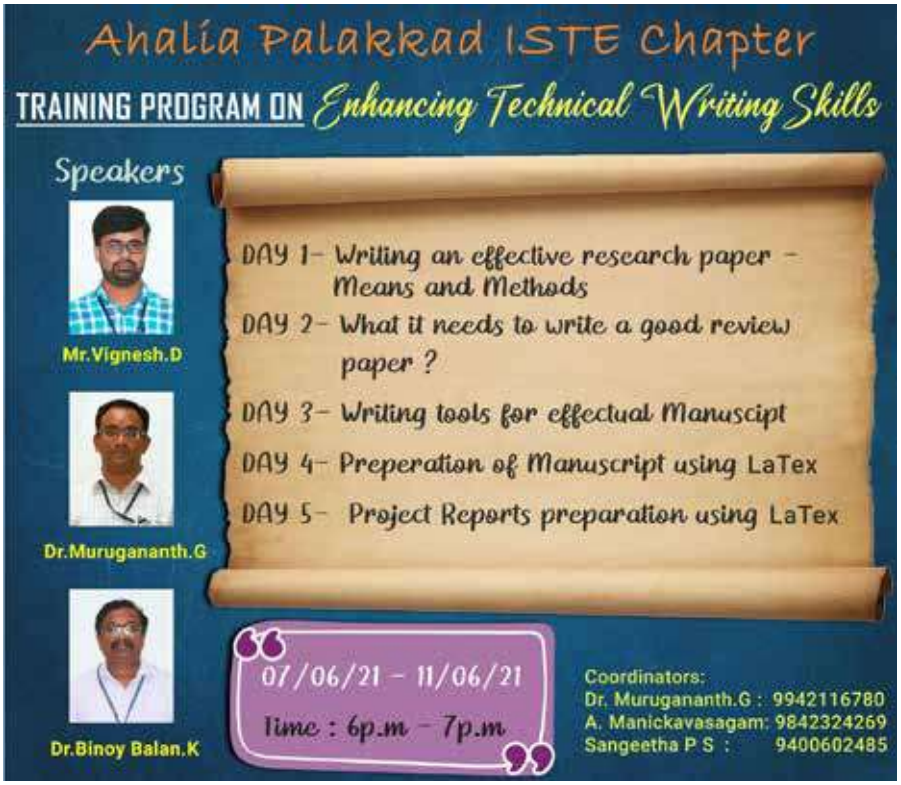
PELS DAY 2021 – ARTICLE WRITING COMPETITION

An online article writing competition was conducted by the IEEE Student Branch of Ahalia School of Engineering and Technology, Palakkad in association with IEEE/IA/PELS Jt. Chapter Kerala as part of PELS day 2021. The last date for submission was 13 June 2021. The article writing was about "Role of Power Electronics in Renewable Energy" and 4 students (3 IEEE members) from UG participated in the article writing competition which was conducted using Google Forms. The winners of the competition were: Ms. Sumayiah K. Arshafudheen (1st Prize, TKM College of Engineering), Ms. Sreesha V. (2nd Prize, ECE, Ahalia School of Engineering and Technology), Ms. Athira Krishnan T. R. (3rd Prize, ECE, Ahalia School of Engineering and Technology). The event was organized by Mr. Jijith V. (2nd year, EEE) and Mr. Gautham M. (2nd year, EEE).



TRAINING PROGRAM ON ENHANCING TECHNICAL WRITING SKILS

A five-day online training program on 'Enhancing Technical Writing Skills' was organzied by Ahalia School of Engineering & Technology in association with the Ahalia Palakkad ISTE Chapter was conducted on 7 to 11 June 2021. The training aimed at improving the technical writing skills for publishing in journals and conferences. In this training program 85 people actively participated.out of 85, 70 participants were external and 15 were internal



WEBINAR ON USING AUTOCRAT FOR DOCUMENT AUTOMATION

A webinar on 'Using Autocrat for Document Automation' was organized by the Department of Electrical & Electronics Engineering in association with ASET Palakkad ISTE Chapter for professionals, faculty members and students. The webinar was conducted in online mode via Google Meet on 19 June 2021. Dr. Krishna Kumar Kishor (Vice Principal, Ahalia School of Engineering and Technology) was the resource person for the webinar. The participants got a clear knowledge about the certificate generation and report preparation using Autocrat. There were forty three participants in the webinar.



LOCK DANCE - DANCE COMPETITION

The dance competition named "LOCK DANCE" was conducted on 22 Jun 2021. The participants uploaded their dance performance videos of two minute duration. A total of 15 students (5 external, 10 internal) participated. The event was coordinated by Aswin U. (S4 CSE), Devaraj R. (S4 CSE) and Ms. Keerthana I. P. (Assistant Professor, CSE Department). The event was judged by Ms. Sruthy Sukumaran (Assistant Professor, CSE Department). The winner of the competition is Joshna N., Kendriya Vidyalaya, Kanjikode, Palakkad.



INTERNATIONAL DAY AGAINST DRUG ABUSE

The National Service Scheme unit of Ahalia School of Engineering and Technology observed the International Day Against Drug Abuse on 26th June 2021 from 5:30 p.m. to 7:00 p.m in association with Excise Department Palakkad. The program started with NSS Song by Anjana R. (NSS volunteer). The welcome address was delivered by Swapna Radhakrishnan (NSS volunteer). The program was inaugurated by Dr. P. R. Sreemahadevan Pillai (Principal, ASET and Director-Ahalia Group of Academic Institutions). Then Dr. Krishna Kumar Kishor (Vice Principal, ASET) delivered the Presidential Address. After that Ms. Jyothsna Joerge (PTA Vice President) felicitated the gathering. The volunteers, students and staff took an oath against drug abuse. Students also presented various posters and messages in which they swore not to use any kind of drugs in their life. At 6.00 p.m., the Chief Guest Mr. Sathish P.K, Circle Inspector of Excise, Anti-Narcotic Squad, Palakkad, led the session on anti-narcotics. He explained various measures taken by the Excise Department to stop the use of drugs in the District. He also shared the number 155358, for reporting any unauthorized access of drugs. After the session, Akshaya A. (NSS volunteer) delivered the vote of thanks. The program ended with the National Anthem.



YAAD CAMPAIGN - YOUTH AGAINST ALCOHOL AND DRUGS

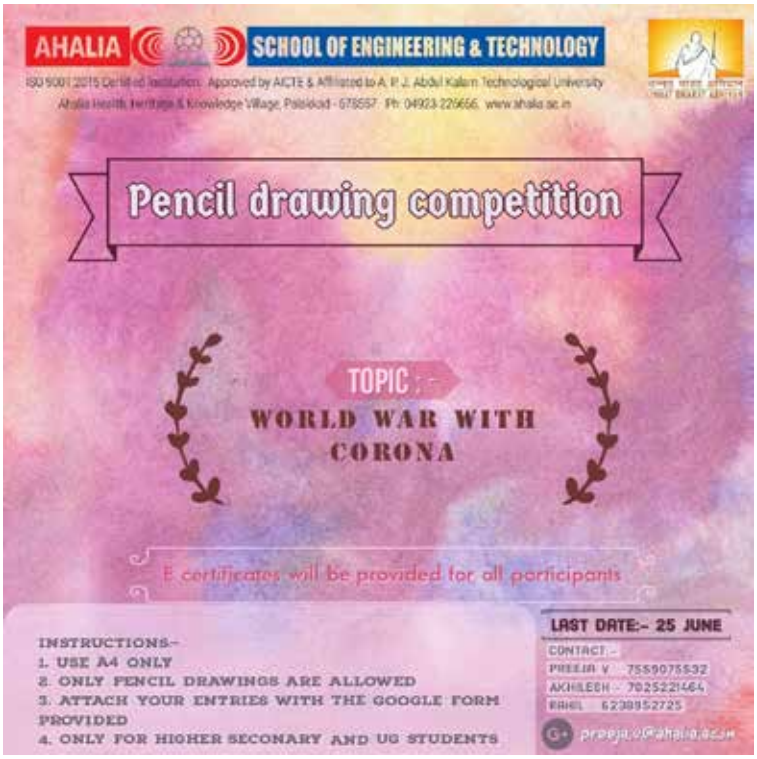
A noble initiative of Ahalia Group of Institutions to sensitise against Alcohol, Drugs and all Substance Abuses was inaugurated by Shri Rishiraj Singh, IPS, Director General of Prisons & Correctional Services, Govt. of Kerala on 28 June 2021 at 6 p.m. He said creating awareness about the ill-effects of substance abuse is the only way to curb its use.

Welcome address was offered by Dr. Christina, Vice-Principal, Ahalia School of Pharmacy and Head of YAAD Campaign, Presidential address by Dr. P. R. Sreemahadevan Pillai, Director, Ahalia Group Academic Institutions. Vote of thanks was proposed by Mr. Roshan Sanu, Asst. Professor, Ahalia School of Engineering and Technology and Convenor of YAAD Campaign. Ms. Bindu Valoor, Manager Academics Outreach coordinated the event

The program held on google meet was attended by Dr. Krishna Kumar Kishor, Executive Director, Ahalia Group Academic Institutions, Mr. Sarath, Operations Manager, Ahalia Group and other prominent people from the State. The event was attended by 450 plus participants.



PENCIL DRAWING COMPETITION



The Unnat Bharat Abhiyan Cell of Ahalia School of Engineering and Technology conducted a pencil drawing competition on the topic 'World War with Corona' on 25 June 2021. The competition was conducted in online mode. 31 students from various institutions inside and outside Kerala participated in the competition. The students did excellent performance by expressing their ideas and emotions for fighting against corona. Winners were awarded and e-certificates were given to all participants.

1st prize – Hiba Fathima S., Ahalia School of Pharmacy.
2nd prize – Lafa Shibin C. A., Ahalia School of Engineering and Technology,
3rd prize – Hemakshi, Ramjas School, Anand Parvat, New Delhi

SPEECH COMPETITION



The Celebration of 75 years of India's Independence -"Azadi Ka Amrut Mahotsav" would commence 75 weeks prior to Independence Day 2022 and would extend up to Independence Day 2023. In this connection, the Department of Science and Humanities, Ahalia School of Engineering and Technology, Palakkad organised an online speech competition entitled 'Drug Abuse & Illicit Trafficking' on 27th June 2021 for the B.Tech. students. In this event five students from Ahalia School of Engineerng and Technology participated. The first prize was secured by Ms. Nithyasree S. (1st year, ECE) and the second prize secured by Ms. Sreesha V. (1st year, ECE).

YODA DAY CELEBRATION 2021

The future of a nation lies in the hands of its youth. It's quintessential that our youth possess sound body and mind to lead the nation to prosperity. As an initial step to achieve this, a three-week Yoga training was organised by ASET from 31 May 2021 to 21 June 2021.

The program was inaugurated on 31 May 2021 by Dr. P. R. Sreemahadevan Pillai, Principal, ASET and felicitation was done by Dr. Krishna Kumar Kishor, Vice-Principal, ASET. The training was held daily for an hour from 7 a.m. to 8 a.m.. Dr. Karthik, Asst. Professor, Physical Education, ASET was the Yoga Trainer. Participants who attended more than 75% training sessions were issued certificates of participation. Certificates for successful completion of training were issued to participants who satisfied the attendance criterion and demonstrated Yoga poses taught by the instructor.

The Valedictory ceremony was held on 21 June 2021 at 7:30 a. m. along with the International Yoga Day Celebration. The event was inaugurated by CA Sivadas Chettoor, President, Palghat Management Association. The participants reported that the training was really useful to them and this has brought in a discipline in their lives.



MY CRAFT, MY CREATIVITY

Department of Civil Engineering has conducted a competition named 'My Craft My Creativity' on 16-06-2021. There are a total of 24 number of participants. They have uploaded the photos of their creativity through the Google form provided. The winners of the competition are: -

1st Prize



Asiya M. V
S8 - CE
Ahalia School of Engineering & Technology.

2nd Prize



Indulekha K. R.
NSS College of Engineering,
Palakkad



AIJAST RELEASED



The second issue of Ahalia International Journal of Advanced Science and Technology AIJAST has been published.

To access it, please visit: https://ahalia.ac.in/aijast/

WEBINAR ON LIFE AFTER B. TECH.



The Department of CSE organized a webinar on 'Life after B.Tech.' on 20 June 2021. The session was handled by Blesson Andrew Varghese. In this webinar the speaker highlighted the career options for students after completing engineering in Computer Science and how to prepare for placements and higher studies options after B.Tech. The session was attended by S8 students of the CSE Department. This webinar was coordinated by Mr. Thanvir Ansik and Mr. Jaydev R. of 4th year CSE.

DOODLE ART COMPETITION

The Doodle Art Competition was held online on the topic "Transform Wonders of Engineering Around You". The competition was open for plus two and B.Tech. students. The date of entry for the posts were from 17/06/2021 to 28/06/2021. The winners are:

1st Prize : Chelsea R. S8 – ECE, Ahalia School of engineering & Technology.
2nd Prize: Aarcha S., Higher Secondary, CAHSS Kuzhalmannam.
3rd Prize: Sarath S. S2 – EEE, Ahalia School of Engineering & Technology.



Chelsea R.
S8- ECE
Ahalia School of Engineering & Technology.



Aarcha S.
Higher Secondary,
CAHSS kuzhalmannam.



Sarath S.
S2 - EEE
Ahalia School of Engineering & Technology.

OLYMPIC LIGHT



The NSS Volunteers of Ahalia School of Engineering and Technology participated in the 'Olympic Light' lighting event on 22.07.2021 at 7 p.m. As a part of pledging solidarity to the Indian Athletes, particularly to the Keralites participating in the Olympic games, our volunteers switched off electric lamps and lighted candles and oil lamps in their homes.

POSTER & ESSAY COMPETITION



The NDLI club and the Literature club, Ahalia School of Engineering and Technology conducted a poster and essay writing competitions as part of the 'World Population Day' on 10/07/21. The theme of the essay competition was 'Effects of the Increasing Population' and that of the poster was any theme related to the world population day. A total of 8 students participated in the essay competition and 12 students participated in the poster competition. All the students did excellent works by expressing their ideas about the concept of population. E-certificates were awarded to all participants. Winners of the essay competition: Ist Prize – Rasika Raj. P. R. (DBHS, Thachambara), IInd Prize – Nithyasree S. (S2 EC, ASET)

Winners of the poster competition: Ist Prize – Akhilesh Siva (S4 ME, ASET), IInd Prize – Krishnaja P. (B.Com, AMC Group of Educational Institutions, Mamissery)

ALUMNI REMINISCENCE



ASET MUSIC FEST 2021

To ease the pandemic induced anxiety and loneliness of online classes, Ahalia School Of Engineering And Technology organised ASET ONLINE MUSIC FEST 2021 at 5 p.m. on 21 June. Over 40 candidates performed and approximately 380 participants attended the event. The fest was inaugurated by the renowned musician Shri. Prakash Ulliyeri. The winners were chosen through audience poll. Ms.Anugraha K. A. of SNPS Elappully bagged the first prize and Ms. Sandra Suresh of Bharathamatha HSS,Palakkad came second. The student coordinators were Ms. Dharsana (S1 CE), Mr. Kailash (S1 ME) and Mr. Vishnu Venugopalan (S1 ECE). Ms. Bindu Valoor was the staff coordinator.



SHORT VIDEO CONTEST

Ahalia School of Engineering And Technology organised a short video contest on account of the World Environment Day 2021. The theme of contest was Ecosystem Restoration Video. The maximum duration of video was 3 minutes. Mr. Abhishek P. T. (S4 ME, Ahalia School Of Engineering And Technology) won first prize in the college category and Ms. Ameena R. (A. J. John Memorial GHSS, Thalayolaparambu) won first prize in the school category.



AHALIA KEAM 2021

Ahalia School of Engineering and Technology, Palakkad is conducting KEAM 2021 Online Model Exam from 00 Hrs on 02 August 2021 to 00 Hrs on 05 August 2021. Candidates can take the test anytime during this test-active period. No fee is charged for taking this model exam. Interested candidates can log on to https://keam.ahaliaoutreach.com/

and register. Model Exam toppers will be offered special prizes and scholarships. 9496000133, 9447721311 can be reached for any more details regarding the exam.



YOUTH AGAINST ALCOHOL AND DRUGS (YAAD) - DISTRICT CAMPAIGN

Dear all,

Ahalia Group, Palakkad is taking up a district level campaign on YOUTH AGAINST ALCOHOL AND DRUGS (YAAD), in the schools and colleges in our district, with the cooperation of government agencies and non-governmental organizations. We request social workers, teachers, students and staff of schools and colleges to join this social service to counter a social menace. Please register in the following link to become a volunteer/counsellor/advisor in this project. Training will be provided to all the registered and certificates will be issued for attending the training and voluntary activities.

https://forms.gle/wkzHLrQfdBy7LTNUA

Also, please join our WhatsApp group by clicking the below link.
https://chat.whatsapp.com/Hi1o89nqWEq2CLQhlzdpGs

It is proposed to inaugurate this project on 15 August 2021.

Contact for details: Ms. Bindu Valoor, Cell: 9496000133

Please invite your friends and colleagues also to join this noble venture.

Wishing you health and safety,

With regards,

Dr. P. R. Sreemahadevan Pillai,
Director,
Ahalia Group Academic Institutions.

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CONTACT

+91 9447721311
+91 4923 226666
website: www.ahalia.ac.in

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ASET NEWS

A Monthly Newsletter of
Ahalia School of Engineering & Technology

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY
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Ahalia Campus, Palakkad - 678557 Ph: 04923-226666, 9496000131 www.ahalia.ac.in
AN ISO 9001 : 2015 CERTIFIED INSTITUTION

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Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

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To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.
To promote research and consultancy for institution development and contribution to the society.

PRINCIPAL'S MESSAGE

HUMAN RIGHTS DAY - 10 DECEMBER

"All Human, All Equal" is this year's slogan for Human Rights Day.

"Where, after all, do universal human rights begin? In small places, close to home -- so close and so small that they cannot be seen on any maps of the world. Unless these rights have meaning there, they have little meaning anywhere else. Without concerted citizen action to uphold them close to home, we shall look in vain for progress in the larger world."
- Eleanor Roosevelt



Dr. P. R. Sreemahadevan Pillai
Principal

Human Rights Day is observed every year on 10 December — the day the United Nations General Assembly adopted, in 1948, the Universal Declaration of Human Rights (UDHR). The UDHR is a milestone document, which proclaims the inalienable rights that everyone is entitled to as a human being - regardless of race, colour, religion, sex, language, political or other opinion, national or social origin, property, birth or other status. Available in more than 500 languages, it is the most translated document in the world.

This year's Human Rights Day theme relates to 'Equality' and Article 1 of the UDHR – "All human beings are born free and equal in dignity and rights."

The principles of equality and non-discrimination are at the heart of human rights. Equality is aligned with the 2030 Sustainable Development Goals Agenda and with the UN approach set out in the document "Shared Framework on Leaving No One Behind: Equality and Non-Discrimination at the Heart of Sustainable Development". This includes addressing and finding solutions for deep-rooted forms of discrimination that have affected the most vulnerable people in societies, including women and girls, indigenous peoples, people of African descent, LGBTI people, migrants and people with disabilities, among others.

Equality, inclusion and non-discrimination, in other words - a human rights-based approach to development - is the best way to reduce inequalities and resume our path towards realising the 2030 Agenda.

Let us start it simple. Believe that you and me have only the same rights as him/her. Let us convince ourselves that human values are universal and not reserved. On this day, pledge for equality for all fellow beings.

STUDENTS PLACED IN VARIOUS COMPANIES





CONGRATULATIONS

ASET TOPPERS: 2020 - 2024 (1st Semester)



Ajanya J.
CSE (SGPA 10)



Amritha M. H.
ECE (SGPA 10)



Bibin Chandran
EEE (SGPA 9.76)



Aiswarya K.
CE (SGPA 9.12)



Archana C.
ME (SGPA 8.79)

ASET TOPPERS: 2019 - 2023 (3rd Semester)



Bhavana A.
CSE (SGPA 10)



Dharani T.
CSE (SGPA 10)



Arya R. Krishna
ECE (SGPA 9.73)



Aswathi S.
CE (SGPA 9.34)



Sreelakshmi M. Nair
ME (SGPA 8.55)



Pramod Krishnan P.
EEE (SGPA 8.18)

Ms. Nithyasree S first year ECE student of AHALIA School of Engineering and Technology won first prize in elocution competition conducted by BEML on account of Vigilance Awareness Week 2021.

The Management, Principal, staff and students of Ahalia School of Engineering and Technology congratulate her for achievement.



THE ONE WHO WASN'T THERE



Anand Haridas
Asst Prof. - CSE

The swanky red 'mean machine' just rammed big on to the banyan, with a terrific thud, that stood sturdy for the past many decades as the icon of an entire locality, now this colossus remains shattered in parts and lies scattered, the brilliant red debris of the flamboyant SUV, beyond recognition. Everything happened in a matter of seconds, in a flash. Without much difficulty comes out the one who drove the car, unable to take in the fact that such a high intense collision has occurred. With a heavy heart he looked at the debris of his beloved carrier lying scattered beyond recognition. For a few moments he remained immobile, absolutely startled, unable to acknowledge the high octane incident that has happened just now. He wore a heavy sigh of relief, after collecting himself up and said "just survived, by almighty's grace". But something was nagging him within, perhaps it could be the multiple drinks he had just before setting on with the road rage probably, and with the thud those gulps too seems to have lost the fizz the big way, desperately needing yet another high, he just strolled through the hostile localities before fixing his sight firmly on the board that read 'pub'. The joy that followed was uncontainable and in a flash he just got into and ordered the best of the drinks available there without wasting any more time.

Everything seemed too strange at his new found place of getting 'high', for he was repeatedly unheard. The bartender seemed too aloof, ignored his presence recurrently by pretending not to hear him and now in a fit of anger he started yelling at the bartender, "serve my order now, or else...".In spite of all these furiousness unabridged, nothing seemed to be going his way, in utter chaosness he just left the place in search of another one, probably the one in which people would respond to him with some courtesy and now he finds another one somewhere very far from the first one, but this commutation never seemed to be a difficult one as he was able to fathom the distances in a matter of seconds, everything seems to be happening at a different pace, and now he dashes into the newly found place of getting 'high' and without the slightest of thought he orders his drink. Yet again rejection at the bartender's end, this time he could no longer contain it and in a flash he jumps over the serving table delivering a strong blow right on to the bartender's nose. "Good God, is he not a human"? He just remains absolutely still even after receiving the blow!!" startled, perplexed, he just remained in a state of dilemma, unable to acknowledge the lukewarm responses rather non responses that he received throughout the various encounters that ensued just after surviving the scary car incident. On his way out from the pub, he noticed an intense bright light that seemed to follow him, "who these light beings are? Could it be the cops who are on the lookout for me", the one who drove the car that met with the fatal accident? Now the light seemed to be getting even brighter but this was a truly strange thing, without the slightest of thought he just ran away and after covering some distance he could no longer run and with utmost frightfulness he just turned back to see if the light still followed him. He is free now, as no longer did the light follow him.

Relieved of that scary experience now he sets out on another unknown path with an unknown plan, suddenly he started getting a gut feel that something was horribly amiss, like something he has dropped from within after that mishap involving his vehicle, now he decides to visit the accident spot again, and moved briskly in that direction, the accident site was cordoned off by the cops in an attempt to demarcate the spot and not to lose the vital proofs of the incident. The sight of his dear SUV lying in shatters was truly unbearable for him, in midst of all these melodrama something unbelievable was happening, the cops with utmost difficulty was pulling out a corpse from the debris, "oh lord! Was there someone else with me in the car, who could it have been? ", the cops, after making a great concerted effort somehow pulled out the corpse that showed no signs of a probable revival and placed it on the medical stretcher, he rushed forward to see who it was, what next followed were breathtaking, spine chilling moments, he could not believe his senses, "what am I seeing, am I hallucinating"? He was motionless, his heart missed a good number of beats, a cold wave swept through him, almost went into a state of numbness unable to palpate the scenes unraveling right in front of his eyes. Even the toughest of human, mentally, for that matter would have passed out, if faced with a similar predicament. The corpse that lies on stretcher was none other than himself..!

(The incidents portrayed in this paranormal literature are purely fictitious)

ശകടം

ക്ഷണനം വരുവതും,
തലമുറയെ കവരുവതും,
തീവ്രമാം വ്യഥയിലമർന്നു
വേവതോ മാതൃഹൃദയവും.

കണ്ണടച്ചു, കാതടച്ചു,
ഉരുളുവതിരു ചക്രമതുരസി
നിരത്തു കേണഴുതു വീണു
തലയുടച്ചു നീ ...കുമാരാ...

നിൻ മാറുരഞ്ഞു, കാലുരഞ്ഞു,
എഴുവതതി സാഹസം.
കീകസമതു തവിടുപൊടി
ഇഴയുവതോ അസാധ്യം.

കൺകളിൽ ഭയമുരുണ്ടുകേറി
മനമതിൽ തളർച്ചയേറി.
ശിലപോൽ ശയിപ്പതും
ദുരിതമെന്നറിയുമോ ...കുമാരാ .

നാലുചക്രശകടമൊന്നിൽ
പാഞ്ഞിറങ്ങി പടികടന്നു
വൈദ്യരെ കണ്ടതും ഓർമ
യില്ലാ പിന്നെയൊന്നുമേ ...

കൂപ്പുകൈകളേറെയും
നിനക്കുവേണ്ടിയെങ്കിലും
നീയൊരുവൻ ചെന്നതോ
കാലനവൻ കൈയ്യിലും ...

താണവൾ കേണിട്ടും
വീണവൾ കരഞ്ഞിട്ടും
കനിവൊന്നുമില്ലയീ
ചണ്ഡാല ലോകത്തിൽ...

ശുഭ്രമാം ശീലയൊന്നിൽ,
നിൻ മാംസപിണ്ഡബന്ധനം.
ഹിംസമാീ കാഴ്ചതന്നെ
ജനനിയവൾക്കെന്നുമേ ...

അരുതരുതു കുമാരാ,
നിണമുറയും ചെയ്തികൾ.
തായവൾ അശ്രുവെത്തുടപ്പതു
നിൻ പാണികളാവണം.



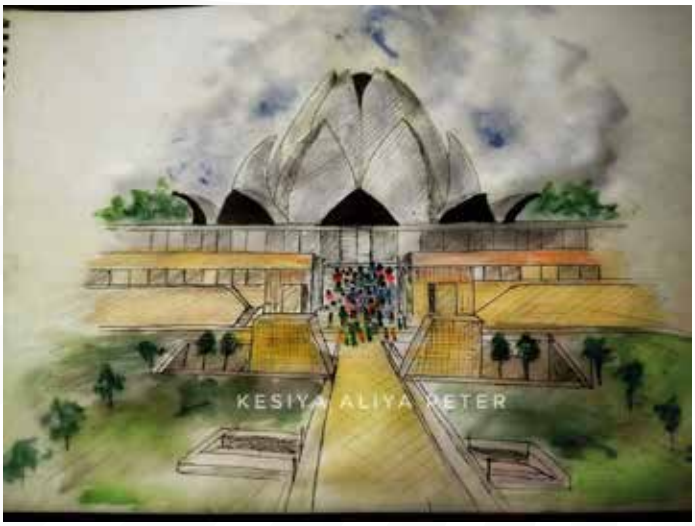
Sulegha S.
Admin Asst.

വള്ളിപ്പടർപ്പുകൾ

ചിന്തയുടെ വള്ളിക്കുടിലിലവൾ
അക്ഷരങ്ങൾ തൻ സ്വപ്നമാളിക പണിതുയർത്തി
പടർന്നു പന്തലിച്ച സ്വപ്നങ്ങളാൽ
ആകാശതേരിലേറി കുഞ്ഞുമേഘങ്ങളായവൾ,
നിശയുടെ മാറിൽ മയങ്ങിയുറങ്ങിയവളൊരു
താരക പെണ്ണായ് തിളങ്ങി,
വള്ളിപ്പടർപ്പുകളാൽ പച്ചില ചാർത്തിയ പ്രകൃതിയായവൾ
കാടും മേടും തൊട്ടു തലോടി,
കാട്ടരുവിയായ് കാട്ടാറായ് ഒരു ചെറുപുഴയായ്
ഒഴുകിയൊഴുകിയവൾ
ഒരു വലിയ പുഴയായ് ചേർന്നൊഴുകി....

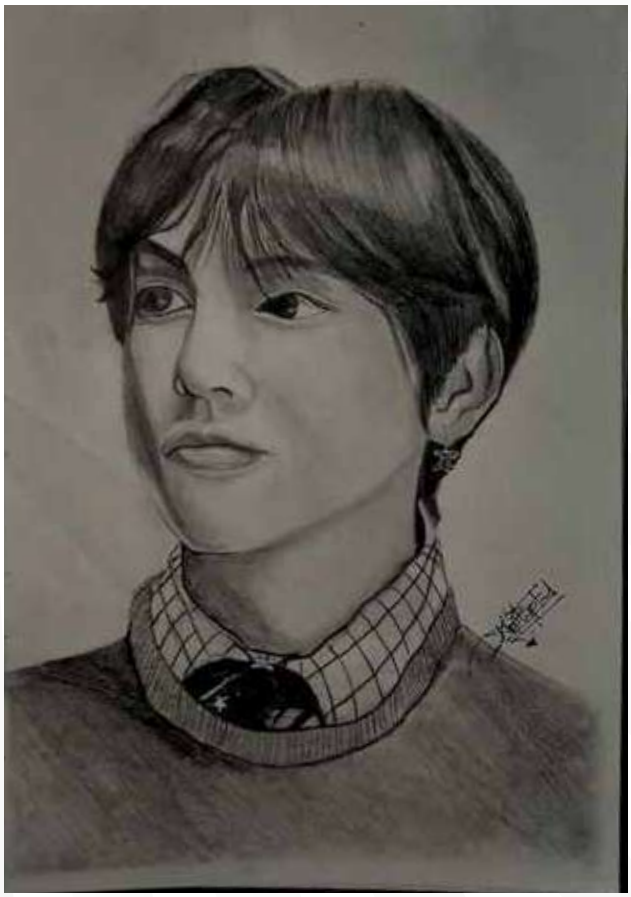


Anima P. S.
Admin Asst.





Kesiya Aliya Peter
CE 2019 - 23



KERALA PIRAVI DINAM CELEBRATION

Kerala Day or Kerala Piravi is celebrated to commemorate the birth of Kerala as an independent State in the Republic of India on November 1, 1956. On Kerala piravi day the spirit of Malayalam is dawned in the heart of every Malayalee. It is a proud moment since it is a commemoration of God's own country.ASET also celebrated Kerala Piravi Day on November 1st.









SIP 2021

Ahalia School of Engineering and Technology organised the inaugural ceremony of Student Interaction Program: SIP 2021, a bridge program for B. Tech 2021 -2025 students on 03 November 2021 at 9:30 a.m. at AWACH auditorium, Ahalia campus. Dr. P. R. Sreemahadevan Pillai, Principal, ASET offered the inaugural address and Dr. Krishna Kumar Kishor, Vice Principal, ASET offered the presidential address. Prof. Kripa K. M., HoD CE welcomed the audience and Prof. Prakash D., HoD ME proposed the vote of thanks. After the inauguration ceremony, students were taken for a campus tour. They visited all Ahalia Institutions in the campus and spent some quality time in Ahalia Heritage Village. Students were given three hours online sessions on alternate days from 05 - 19 November on Communicative English, importance of personality development for engineers, techniques for developing emotional intelligence, basics of engineering, joy of programming, magic of basic sciences, future transportation methods and scope of engineering. The intention of these sessions is to give students a perspective of engineering education and how they should prepare themselves to be a successful engineer. They participated well and were happy with the sessions offered.









PLACEMENT TRAINING PROGRAM

Online placement oriented training program was conducted by Ahalia School of Engineering and Technology in association with Global Talent Track in association and partners Barclay's. As a part of the Barclays CSR initiative, Barclays has decided to skill unemployed youths as per the industry requirement. We would be executing the training program under this initiative, with a limited number of colleges across India. The training program was conducted for three days, on 4th, 6th and 7th of November 2021. Nearly 145, students from Ahalia School of Engineering and Technology attended the program.

The training program introduced various aspects of "Life Skills' and "Personality Development". Experts trainers have given mock interviews and conducted Group Discussions for the students.



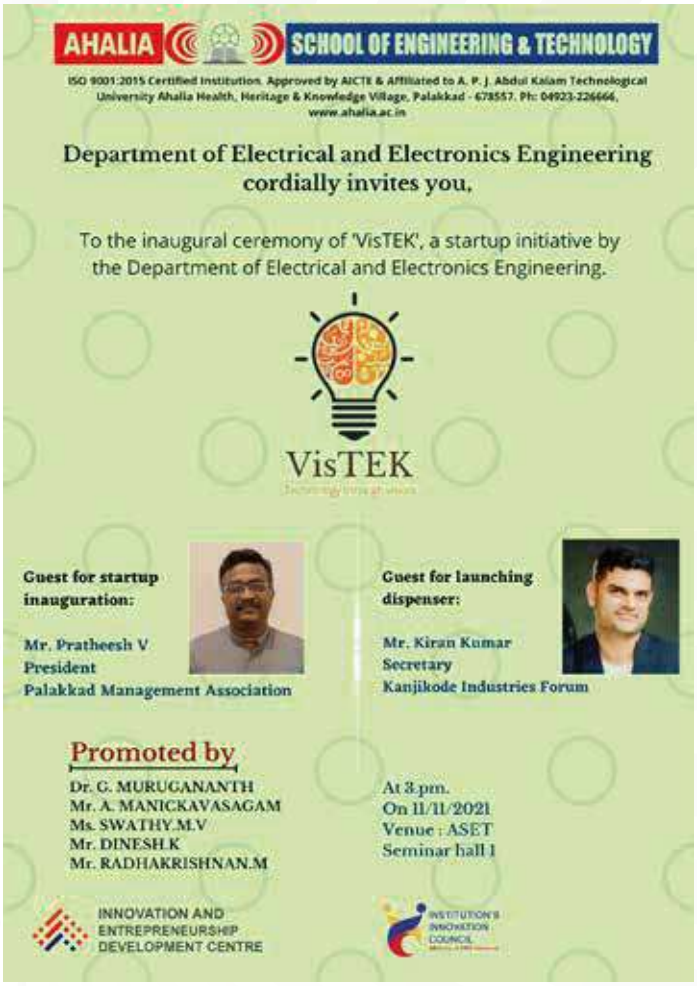
MoU SIGNING CEREMONY

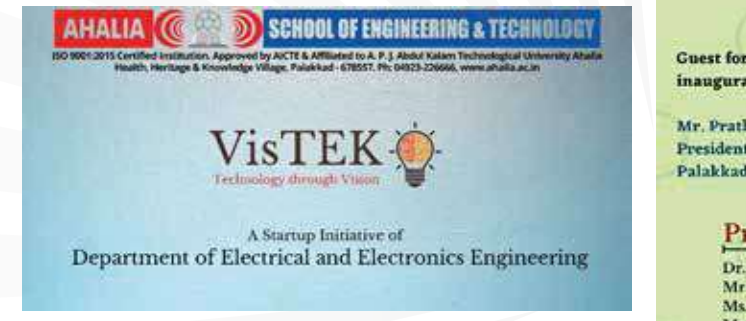
Ahalia School of Engineering and Technology signs MoU with Kanjikode Industries Forum. This provided an opportunity for students to visit and do internships in institutions in the Kanjikode industrial area. Through this MoU, Ahalia School of Engineering and Technology will also provide technical assistance to business in the Kanjikode region the event also marked the launch of Vistech, a startup venture of the College's Electrical and Electronics Engineering Department. Mr. Pratheesh V, President, Palakkad Management Association addressed the function held at Ahalia Campus. The startup company was inaugurated and spoke. Mr. Kiran Kumar, Secretary, Kanjikode Industries Forum, inaugurated the "Automatic Sanitizer Dispenser" product of the startup company. Dr. P.R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology presided over the function.Representatives of Kanjikode Industries Forum Shri. Shabeer K, Director, Steelmax India, Mohammad Asif, Managing Director, Plastbee Polymers, Vasu Vennukkaran, Managing Director, Metrolight Roofing Pvt. Bindu Valoor, Academic Outreach Manager, welcomed the audience and Dr. G. Muruganand, Head, Electrical Department, Proposed the Vote of thanks.



START UP INAUGURATION & PRODUCT LAUNCH

startup inauguration & product launch was held on 11 November 2021 at 3 p.m. Inauguration of the startup "VisTEK" was done by Mr.Pratheesh V., President, Palghat Management Association. Launching of automatic sanitizer dispenser was done by Mr.Kiran Kumar, Secretary, Kanjikode Industries Forum. Representative of ASET & KIF signed MoU. Presidential address was given by Dr. P. R. Sreemahadevan Pillai, Principal,ASET. Programme was concluded at 4.10 pm by the vote of thanks given by Dr. G. .Murugananth.







INDUSTRIAL VISIT

16 November 2021

Students of S7 Civil and EEE of Ahalia School of Engineering and Technology visited TryOnce Agro Products Pvt. Ltd., a start-up venture of Swaroop, Akshay and Tony who are alumni of ASET. The students from S7 Civil and S7 EEE were taken for the IV . Dr. Mahima Ganeshan, Vivek V. S, from Civil department Mr. Subin Chacko, Ms Swathy M. V, Ms Veenaa Raj from Electrical Department. Ms Bindu Valoor ,Manager, Academics Outreach, Ahalia group of Institutions, Mr. Abhijith Valsan , Training and Placement Officer, Ahalia School of Engineering and Technology and Ms Rinsy .M ,Counselling Psychologist, Ahalia Group accompanied them. The purpose of industrial visit for students is to provide technical knowledge with the technological development in the industry and to understand the gap between the theoretical and practical knowledge that could be passed in future.



17 November 2021

On 17 November 2021, students of S3 ME and EEE of Ahalia School of Engineering and Technology visited Ahalia Medicine Manufacturing Unit. Mr. Anil M., and Mr. Dheeraj P., from Mechacnial department, Ms. Swathy M. V. and Ms Lakshmy Suresh from Electrical Department and Ms Rinsy M., Counselling Psychologist, Ahalia Group accompanied them.

Thanks to Dr. Bimal for explaining all the processes well and addressing our students' queries.



18 November 2021

The pre-final year Civil engineering students of Ahalia School of Engineering and Technology had surveyed the proposed site for Rural Tech Park, Ahalia Campus on 18 November 2021



19 November 2021

On 19/11/2021 Friday the Industrial visit from Ahalia School of engineering and technology was to Ahalia Medicine Manufacturing Unit. The students from S5 civil were taken for the IV. One teacher from civil (Mr. Vivek V.S.) and Ms Rinsy M. (Counselling Psychologist, Ahalia Group) accompanied them. Dr. Bimal (Manager, Ahalia Ayurvedic Medicine Manufacturing Unit) explained all the processes well and addressed students' queries. IV started from Ahalia School of engineering and technology at 1.45 pm and returned back at 3.00 pm.



23 November 2021

On 23/11/2021 Tuesday the Industrial visit from Ahalia School of engineering and technology was to Paragon Steel Distributors. The students from S5 MECH were taken for the IV. Two teachers from MECH (Mr. Jishnoop J. & Mr. Vignesh V.) Ms Bindu Valoor (Manager, Academics Outreach, Ahalia group of Institutions) and Ms Rinsy M. (Counselling Psychologist, Ahalia Group) accompanied them. Mr. Salim (H.R. Manager, Paragon Steel Distributors) explained all the processes well and addressed students' queries. IV started from Ahalia School of engineering and technology at 2.00 pm and returned back at 4.15 pm.



25 November 2021

On 25/11/2021 Thursday the Industrial visit from Ahalia School of engineering and technology was to Metrolite Roofing Pvt. Ltd.(JSW) and Stahlkind Pvt. Ltd. The students from S5 CSE were taken for the IV. Mrs. Sruthy Sukumran and Mrs. Rabeena T. M. From CSE dept., Ms Bindu Valoor (Manager, Academics Outreach, Ahalia group of Institutions) and Ms Rinsy M. (Counselling Psychologist, Ahalia Group) accompanied them. The engineers of the respected industries explained all the procedures to the students and addressed their queries. IV started from Ahalia School of engineering and technology at 1.30 pm and returned back at 4.00 pm.







25 November 2021

On 26/11/2021 Friday the Industrial visit from Ahalia School of engineering and technology was to Metrolite Roofing Pvt. Ltd.(JSW) and Stahlkind Pvt. Ltd. The students from S3 ECE and ME were taken for the IV. Mr. Santhosh C. Assistant Pofessor ECE Dept, Mr. Sandeep Satish, Mr. Gokul A. Menon and Mr. Jishnoop Jayaprakash Assistant From ME dept. and Ms Bindu Valoor (Manager, Academics Outreach, Ahalia group of Institutions) accompanied them. The engineers of the respected industries explained all the procedures to the students and addressed their queries. IV started from Ahalia School of engineering and technology at 1.40 pm and returned back at 4.00 pm.







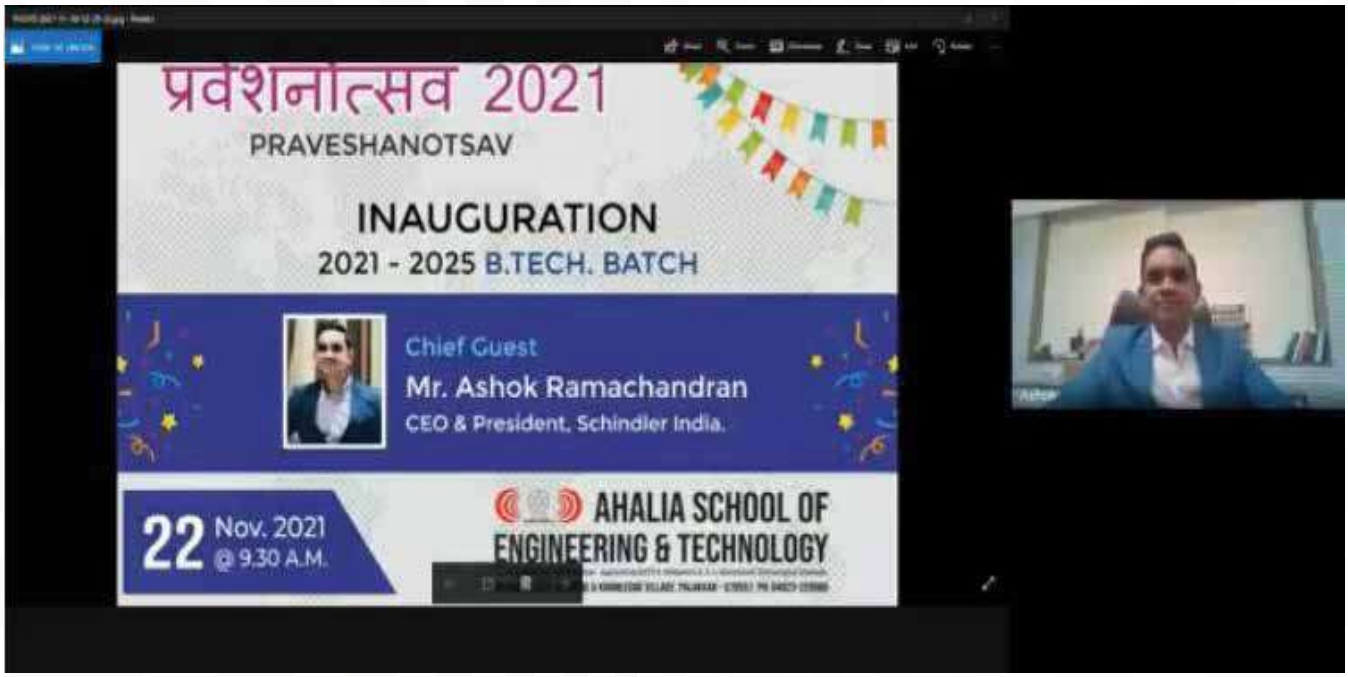




PRAVESHANOTSAV 2021

Ahalia School of Engineering and Technology welcomed it's youngest members on 22 November 2021 by celebrating Praveshanotsav 2021. Mr. Ashok Ramachandran, CEO & President, Schindler India inaugurated the event. He advised the students to pay close attention to all the happenings around them and sharpen their problem solving skills. This will help them in climbing the career ladder. Mr. Ashok Ramachandran said he is more than happy in mentoring our students and encouraged them to connect with him.

Dr. Krishna Kumar Kishor, Vice Principal, ASET offered the presidential address. Mr. Swaroop K. Ravindran, Vice President, ASET Alumni Association felicitated the new joinees. He shared his experience being a student in ASET. He persuaded them to dream big and work relentlessly towards achieving it.











UNIVERSAL HUMAN VALUES PROGRAM 2021

Timing	Resource Person	Incharge	MoC
2.00 p.m to 3.15 p.m	**Briefing of Professional Body, Sports, Cultural, and NSS activities** Mr.Basil Baby, A.P, S& H Mr.Roshan Shanu, A.P.,CSE Mr.Vivekgopi, A.P., ME Ms. Lakshmi Suresh A.P., EEE Mr. Dhaneesh, A.P., ME	Mr.Thannasi C , AP, S&H Ms. Sangeetha, AP, S&H	Mr.Basil Baby, A.P, S& H





Timing	Resource Person	Incharge	MoC
3.30 pm to 4.30 pm	**KTU- Regulations** Prof. Prakash, HoD-ME, ASET	Mr. Anand Haridas, AP,CSE Mr.Vignesh, AP, S&H	Ms.VeenaRaj , AP, EEE





Universal Human Values Program Day - 2

Timing	Resource Person	Incharge	MoC
9 a.m to 11.00 a.m	**9 to 9.30 A.M** **Tutors Hours** 9.30 to 11 AM University level inauguration and academic regulations by Vice Chancellor, Pro Vice Chancellor, Prof. Dr. Vinodkumar Jacob (Syndicate Member) and Dean (Academic)	**9 to 9.30 A.M** **Tutors Hours** Mr. Anand Haridas, AP,CSE Mr.Santhosh C, AP, ECE Ms.VeenaRaj , AP, EEE Ms.Gopiga Unni, AP,CIVIL Mr. Anil , AP, ME	Ms.Prabha, AP, S&H Ms.Sunitha, AP, S&H
11.30 a.m. to 1.00 p.m.	**"Self-Confident"** Dr. Krishnakumar Kishor, Vice Principal, ASET Executive Director, Ahalia Group	Ms.VeenaRaj , AP, EEE Ms.Gopiga Unni, AP,CIVIL	Ms.Prabha, AP, S&H Ms.Sunitha, AP, S&H







2.00 p.m to 3.15 p.m	**"Self-Motivation"** Prof.Kripa K. M. HoD-CE, ASET	Mr.Nandu S Nair, AP, CSE Mech I year Class advisor	Ms.Preeja, AP, S&H Mr.Basil Baby, A.P, S& H
3.30 pm to 4.30 pm	**"Insight about Inside"** Dr.S.Gunasekaran, HoD-CSE,	Mr.Nandu S Nair, AP, CSE Ms.VeenaRaj , AP, EEE Mech I year Class advisor	Ms.Preeja, AP, S&H Mr.Basil Baby, A.P, S& H







Universal Human Values Program Day - 3

Timing	Resource Person	Incharge	MoC
9 AM to 10.00 AM	**"Soft Skill essentials for Engineers"** Mr.Abhijit V Placement Officer A.P,ECE, ASET	Mr.Vignesh, AP, S&H Mr.Anil, AP, ME Ms.Gopika Unni, AP, CE	Ms.Sangeetha, AP, S&H
10 to 11.30 AM	10 to 11.30 AM Sri. Manoj Abraham IPS, Additional Director General of Police, Kerala State.	Mr.Vignesh, AP, S&H Mr.Anil, AP, ME Ms.Gopika Unni, AP, CE Mr.Nandu S Nair, AP, CSE	Ms.Prabha, AP, S&H
11.30 AM to 1.00 PM	**"Happiness Index"** Dr. Binoy Balan K HoD-S&H, ASET	Mr.Vignesh, AP, S&H Mr.Nandu S Nair, AP, CSE	Ms.Sangeetha, AP, S&H





2.00 PM to 3.30 PM	**"Event Management Program"** By Ahalia Group	Mr.Basil Baby, A.P, S& H Mr.Anand Haridas, AP, CSE	Ms.Preeja, AP, S&H
3.45 PM to 4.30 PM	4 to 5.00 PM: Talk by Smt. R. Sreelekha IPS (Retd. Director General, Fire and Rescue Services, Kerala State) on Safety of Youth	Mr.Basil Baby, A.P, S& H Ms.VeenaRaj , AP, EEE Mr.Santhosh C, AP, ECE	Ms.Preeja, AP, S&H





Universal Human Values Program Day - 4

Timing	Resource Person	Incharge	MoC
9 a.m to 11.00 a.m	9 to 10.30 AM Dr. Arun B. Nair, Psychiatrist, Govt. Medical College, Trivandrum on Psychosocial Competence. (Online)	Ms.Gopiga Unni, AP,CIVIL Mr.Santhosh C, AP, ECE	Ms.Sangeetha, AP, S&H
11.30 AM to 1.00 PM	**"Self Esteem & Goal Setting"** Mr. Vivek Gopi Asst. Prof. M.E, ASET	Mr.Anand Haridas, AP, CSE	Ms.Sunitha, AP, S&H





2.00 PM to 3.15 PM	2 to 3 PM: Dr. S. Somanath, Director, Vikram Sarabhai Space Centre on Possibilities of Engineering Domains. (Online)	Mr.Nandu S Nair, AP, CSE	Ms.Prabha, AP, S&H
3.30 PM to 4.30 PM	**Group Introduction and Team Management** Dr.S Gunasekaran HoD CSE ASET	Ms.VeenaRaj , AP, EEE	Mr.Thannasi C - AP, S&H











Universal Human Values Program Day - 5

Timing	Resource Person	Incharge	MoC
9 AM to 10.00 AM	**"Human Values and Human Relationships"** Dr. Balamurugan V HoD-ECE, ASET	Ms.VeenaRaj , AP, EEE	Ms.Sunitha, AP, S&H Ms.Preeja, AP, S&H
10.00 AM to 11.30 AM	(10 to 11.30 AM:) Mr. Rajesh Nair, Associate Partner Markets, Ernst & Young LLP on Reframing the Future.	Ms.Preeja, AP, S&H	Ms.Sunitha, AP, S&H Ms.Preeja, AP, S&H
11.45 AM to 1.00 PM	**"Awareness & prevention of drug abuse"** Mr. SATHISH.P.K Circle Inspector of Excise Antinarcotic Squad Palakkad	Ms. Vijitha Khan, A.P ,ECE Ms.Gopika Unni, AP,CIVIL Mr. Anil , AP, ME	Ms.Sunitha, AP, S&H Ms.Preeja, AP, S&H







2.00 PM to 3.15 PM	**Introductory program about Group of Technology Companies GTech** (GTECH is the Industry body of Information Technology (IT) and Business Process Management (BPM) organizations in Kerala.)	Mr.Abhijit V Placement Officer A.P,ECE, ASET	Mr.Thannasi C - AP, S&H
3.30 PM to 4.30 PM	**"English Proficiency Test"** Mr.Vignesh D A.P, S&H Mr. Thannasi C A.P, S&H	Mr.Vignesh D A.P, S&H	Mr.Thannasi C - AP, S&H



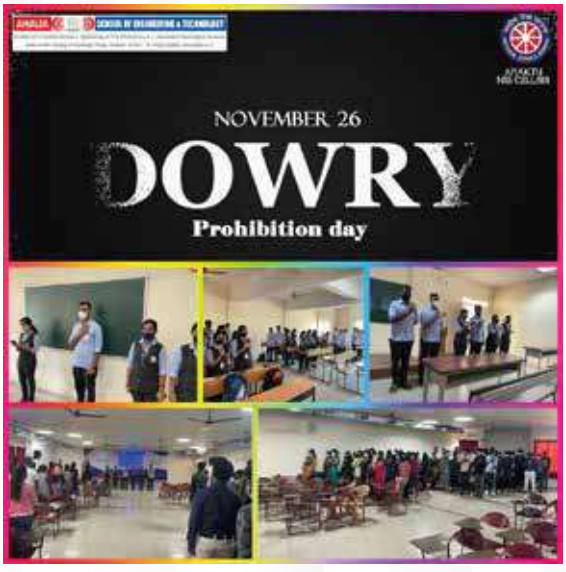


Universal Human Values Program Day - 6 (Through Online)

Timing	Resource Person	In charge	MoC
10 a.m to 11.30 a.m	10:30 to 11.30 AM Smt. K. K. Shailaja Teacher, MLA, (Former Minister for Health and Family welfare, Govt of Kerala)	Mr. Anand Haridas, AP,CSE Mr.Santhosh C, AP, ECE Ms.VeenaRaj , AP, EEE Ms.Gopika Unni, AP,CIVIL Mr. Anil , AP, ME	Ms.Prabha, AP, S&H
11.45 AM to 1.00 PM	**"Self-Reflection & Mutual Respect"** Ms. Bindu Valoor Manager, Academic Outreach, Ahalia Group	Mr. Anand Haridas, AP,CSE Mr.Santhosh C, AP, ECE Ms.VeenaRaj , AP, EEE Ms.Gopika Unni, AP,CIVIL Mr. Anil , AP, ME	Ms.Prabha, AP, S&H Mr.Basil Baby, A.P, S& H
1.00 PM to 2.00 PM	**Lunch**		
2.00 PM to 3.00 PM	**"Yoga for Life"** Mr. Basil Baby A.P, S&H	Ms.Preeja, AP, S&H	Ms.Sunitha, AP, S&H
3.00 PM to 4.00 PM	**Feedback session (Online Feedback)**	Dr. S.Gunasekaran, CSE Mr. Vignesh, AP, S&H	Ms.Sunitha, AP, S&H Ms.Preeja, AP, S&H

DOWRY PROHIBITION DAY

Dowry system is a social menace. NSS volunteers of Ahalia School of Engineering and Technology took the Anti-Dowry oath on account of Dowry Prohibition Day celebration on 26 November. ASET stands strongly against dowry system and our students are committed to fight this social evil.



AHALIA IN MEDIA

അഹല്യയിൽ വിജയോത്സവ് നടത്തി

വാളയാർ • അഹല്യ സ്കൂൾ ഓഫ് എൻജിനിയറിങ് ആൻഡ് ടെക്നോളജിയുടെ നേതൃത്വത്തിൽ ജില്ലയിൽ പ്ലസ്ടു പരീക്ഷകളിൽ മികച്ച വിജയം നേടിയ വിദ്യാർഥികളെ ആദരിക്കാൻ 'വിജയോത്സവ് 2021' നടത്തി. മന്ത്രി കെ. കൃഷ്ണൻകുട്ടി ഉദ്ഘാടനം ചെയ്തു.

അഹല്യ ഗ്രൂപ്പ് അക്കാദമിക്സ് ഡയറക്ടർ ഡോ.പി.ആർ. ശ്രീമഹാദേവൻപിള്ള അധ്യക്ഷനായി.

എ. പ്രഭാകരൻ എംഎൽഎ, അഹല്യ ഗ്രൂപ്പ് ഡയറക്ടർ ശ്രേയ ഗോപാൽ, എക്സിക്യൂട്ടീവ് ഡയറക്ടർ ഡോ. കൃഷ്ണകുമാർ കിഷോർ, ഡോ. ഷേബാ സുനിൽ, ഡോ.എസ്.എൻ. ജഗദീശ്, ഡോ. എ.ജെ.എം. ക്രിസ്റ്റീന, ഡോ. വെങ്കട്ടരമണ, പ്രഫ. ശ്രീജിത് നായർ, പ്രഫ. വി. വിവേക് ഗോപി, പ്രഫ. പി. വിജിതാ ഖാൻ, പ്രഫ. എം. പ്രഭ, ബിന്ദു വാലൂർ എന്നിവർ നേതൃത്വം നൽകി.



അഹല്യ സ്കൂൾ ഓഫ് എൻജിനിയറിങ് ആൻഡ് ടെക്നോളജിയുടെ നേതൃത്വത്തിൽ നടന്ന വിജയോത്സവ്-2021 മന്ത്രി കെ. കൃഷ്ണൻകുട്ടി ഉദ്ഘാടനം ചെയ്യുന്നു.

Ahalia launches solar plant

STAFF REPORTER
PALAKKAD

Minister for Power K. Krishnankutty launched a one-megawatt (MW) solar power plant on the Ahalia campus at Kanjikode, near here, on Saturday.

The on-grid solar power plant under Ahalia Alternative Energy Private Ltd was set up in four-and-half acres with the support of the Agency for New and Renewable Energy Research and Technology (Anert).



Many options: Minister for Power K. Krishnankutty inaugurating the one-megawatt solar power plant on the Ahalia campus at Kanjikode, near Palakkad, on Saturday.

Windmills

Mr. Krishnankutty congratulated the Ahalia management for the contributions it made in the alternative energy sector. Ahalia had set up windmills on its campus. He called upon the people to emulate the model set by Ahalia.

Kerala State Electricity Board (KSEB) director V. Murugadas presided over the function at Ahalia Women and Children Hospital. He released the brochure of the Ahalia solar project.

Elappully grama panchayat president Revathi Babu, Pudussery panchayat president S. Praseetha, Vadakarapathy panchayat president Josey Britto, Ahalia group director Shreya Gopal, executive director Krishnakumar Kishore, and Ahalia Alternative Energy Private Ltd senior consultant K. Radhakrishna Kumar spoke.

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AHALIA PUBLIC SCHOOL

Vol 6 Issue 2

February 2021

ASET NEWS

A monthly news letter of
Ahalia School of Engineering & Technology



AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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Palakkad - 678557 I Ph: 04923-226666 I www.ahalia.ac.in AN ISO 9001 : 2015 CERTIFIED INSTITUTION

PRINCIPAL'S MESSAGE

REPUBLIC DAY

On this 72nd return of the Republic Day of the second most populated country in the world, let us salute our mother India with pride in our souls, zeal in our hearts and freedom in our minds, holding our head high, removing the fears of narrow domestic walls dividing us. Our peaceful coexistence and love for our nation are the strength of this biggest democratic country. Wisdom comes from education and learning. The role of educational institutions in remoulding this country is paramount. Remembering the golden heritage of this country and at the same time facing the challenges ahead, are our imminent tasks. Independence is a wonderful gift, to be cherished by the citizens at large. Preserving the heritage and leaping farther are the needs of the day. COVID 19 has taught us many lessons in the personal and social life. Learning from experience is a gift to the homo sapiens. On this 72nd birthday of our republic, let us pledge to move forward in the most solemn and befitting manner, never tiring. Wish all Indians the happiness and glory of this chosen land.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group

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Congratulations to Thanveer Ansik and Bhadra Mahesh for Placed in TCS

Mr. Thanveer Ansik Aliakbar (2017-21 CSE) and Ms. Bhadra Mahesh (2017-21 EEE) have been offered placement in TCS. Congratulations!




IEEE

Certificate of Appreciation

This is to certify that

Vishnupriya K

Volunteered as an Ambassador in the IEEEXtreme 14.0

programming competition that hosted +7,300 participants

24th October 2020

IEEEXTREME PROGRAMMING COMPETITION



Vishnupriya K

Congratulations to Vishnupriya K, (2017-21 ECE)

for being selected as a Volunteer and Ambassador in the IEEEXtreme 14.0 programming competition that hosted +7,300 participants on 24th October 2020

RISING OPPORTUNITIES IN POST COVID ERA

One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man." ~~ Elbert Hubbard
Wondering what covid 19 had done our economy? Worried about What next? Or has the human life become more expensive than anything else?
Covid 19 had transformed the culture of work. Home is now the new office. Global labor markets had completely transformed every working life to a new state of mind, health and economy. Some find things much better while the others are strangulated. A retransformation in 2021 is another breakthrough that this generation has to face. What possibilities are coming up in 2021 with respect to the job seekers?



Abhijith V
Assistant Professor, ECE
Placement Officer

A new world of exciting opportunities is getting ready for the fresh young graduates who are skilled. In the new world, candidates are hired, trained and placed virtually. A wide range of variations in the skillsets required are found in every aspect of hiring. Requirements have changed. Survival is now meant only for the dynamic. The most important criteria are building and getting committed to the skillsets. On every front, there is always a dearth for skills because the concept of skill is not absolute but relative. Every organization requires skilled hands. The skill needs of the organization get multiplied and then rise exponentially with respect to time. So it means that there is job for every one with skills. The quality of job is proportionate to the level of skills. The more the skills the more the prospects. Virtual life is stabilized by the gadgets and its software. Machines are learning and become more intelligent. As Stephen Hawkins said, artificial intelligence could be 'worst event in the history of our civilization'. And this influence on every aspect of our society would trend people to work only on machines and nothing else. This may even lead the world of working people to a world of working machines. So intelligence is to adapt to this new world. Get acquired with the skills and job hunters are in search of you.
The job you are going to get is the job you design yourself for. The design is your ability to acquire the skills that are in need. Wondering "How do I know about the skills that I need today? "

To decide on the skillset domain is as important as acquiring the skill as such because many skill sets are dormant. Many of the skills that once were in great demand are now extinct and some of them are highly endangered. It might not be wise to select the skillsets that is getting abandoned due to its utility. As we now know that the world seems to be safe when working people are at home, information on skillsets are very quickly and easily accessible. Internet gives us all kinds of information but at very broadened yet partial methods. So here comes our need to decide rationally on the domains that might influence us and that might need us now. Having understood that acquiring skills and that the skills are the need of the hour, the next question that comes is, "How do the recruiters know that I am the one who they are looking for?"

The social profiles are our virtual eyes. We are seen by the world outside by our presence in the social media. Recruiters are also fond of the information they acquire in absentia. So using our vision with intelligence is only way to reach out to our remote employer, quickly and easily.
In spite of the greatest of all disasters, we know we have opportunities. We need to consolidate our skills and prepare ourselves to make the future of our society and mankind safer, healthier and stable. Our presence in this virtual world can bring about wide changes in coming years. Let's wait to see what 2021 makes for us.

3D CONSTRUCTION PRINTING



Kripa K. M.
Head of Department, CE

The use of technology in civil engineering is growing day by day. Recent advances in technology have led to a new era of construction based on 3D printing. 3D printing is a process in which the material is printed under computer control to build a three-dimensional product, typically layer by layer [1]. 3D printed concrete is a special type of concrete, which can be deposited through a 3D printer layer by layer without any formwork support and vibration process. It's important performance indexes, such as workability, setting time, hardening time and mechanical properties, can be optimized by appropriate material selection and printing parameters.

3D printed concrete has a great potential for practical applications, such as the affordable housing construction in low-income countries, military bunkers when the soldiers fight in the wild, and complex constructions where the formwork is difficult to manufacture. It is also used in manufacturing industries to print rapid prototypes, complex shapes and small batch production using special polymers and metal alloys. To date, many building structures have also been successfully printed using 3D printed concrete technology. The quality of the 3D printed structure is ensured by manufacturing precision, material performance and aesthetic design.

Research and development in this field has been underway since 1995 [2]. Joseph Pegna proposed an additive manufacturing method based on digital and automatic technology to extrude concrete material layer by layer to build the 3D architectural structure. Another technique, called contour crafting was proposed by Behrohk Khoshnevis. This involved a novel ceramic extrusion and shaping method, which was an alternative to the emerging polymer and metal 3D printing techniques. Larsen and Toubro constructed a 3D printed building, a ground plus one-floor building of 700 square feet built-up area, at Kanchipuram with a special, in-house developed concrete mix using indigenously available regular construction materials (see Figure 1) [3]. Earlier in November 2019, to explore the feasibility of this innovative technology, the team had 3D printed a 240 square feet 1 BHK, in line with a typical economically weaker section building layout. The building was printed with both vertical reinforcement bars and horizontal distributors using a welded mesh that satisfied the provisions in the Indian codes and optimized the cost of construction. The entire building structure was 3D printed 'Cast in Situ' at the job site in an 'open to sky' environment, except for the horizontal slab members, within 106 printing hours, using a fully automated 3D printer.



Figure 1: A 3D printed ground plus one-floor building constructed in Kancheepuram by Larsen and Toubro (source: [3]).

References:

[1] Jingchuan Zhang, Jialiang Wang, Sufen Dong, Xun Yu, Baoguo Han, "A review of the current progress and application of 3D printed concrete", Composites Part A: Applied Science and Manufacturing, Volume 125, October 2019, 105533

[2] "Construction 3D printing", Online: https://en.wikipedia.org/wiki/Construction_3D_printing

[3] "L&T prints India's first 3D ground-plus-one building in TN's Kancheepuram", The New Indian Express, 24 December 2020

Future Wireless Communication Systems -6G



Dr. V. Balamurugan
Professor &
Head of Department, ECE

Since the beginning of the first analog communication system in the 1980s, a new generation of communication systems has been introduced almost every ten years. The transfer from one generation to another improves the Quality of Services (QoS) , includes new services, and provides new features. The goal of 5G and 6G is to increase in the respective capability by a factor of 10–100 compared to the previous mobile generation upgrades. During the last ten years, mobile data traffic has grown tremendously because of the introduction of smart devices and machine-to-machine (M2M) communications. It is expected that the global mobile traffic volume will increase 670 times in 2030 compared to mobile traffic in 2010 . By the end of 2030, the International Telecommunication Union (ITU) predicts overall mobile data traffic will exceed 5 ZB per month. The number of mobile subscriptions will reach 17.1 billion as compared with 5.32 billion in 2010

Moreover, the use of M2M connectivity will also increase exponentially. The traffic volume for each of the mobile devices will also increase. The traffic volume of a mobile device in 2010 was 5.3 GB per month. However, this volume will grow 50 times in 2030. The number of M2M subscriptions will increase 33 times in 2020 and 455 times in 2030, as compared with 2010. Table 2 presents a few comparisons of the use of mobile connectivity in 2010, 2020, and 2030

The rapid development of various emerging applications, such as artificial intelligence (AI), virtual reality (VR), three-dimensional (3D) media, and the Internet of Everything (IoE), has led to a massive volume of traffic. The global mobile traffic volume was 7.462 EB/month in 2010, and this traffic is predicted to be 5016 EB/month in 2030. This shows the importance of improving communication systems. We are heading toward a society of fully automated remote management systems. Autonomous systems are becoming popular in all areas of society, including industry, health, roads, oceans, and space. In this regard, millions of sensors are integrated into cities, vehicles, homes, industries, food, toys, and other environments to provide a smart life and automated systems. Hence, a high-data-rate with reliable connectivity will be required to support these applications. In certain parts of the world, fifth-generation (5G) wireless networks have already been deployed. By 2020, 5G is expected to be fully used worldwide

NEED FOR 6G WIRELESS COMMUNICATION SYSTEMS:

The demand for wireless connectivity has grown exponentially over the last few decades. Fifth-generation (5G) communications, with far more features than fourth-generation communications, will soon be deployed worldwide. However, 5G will not meet all requirements of the future in 2025+. Researchers now start to focus on the sixth generation (6G) wireless communication networks. One of the main distinguishing features of 5G is low latency or more specifically guaranteed (deterministic) latency, which needs deterministic networking (DetNet) to guarantee end-to-end latency with punctuality and accuracy that future use cases demand. The 6G will have additional requirements of high time and phase synchronization accuracy beyond what 5G can deliver.

Additionally, 6G will have to provide near 100% geographical coverage, sub-centimeter geo-location accuracy and millisecond geo-location update rate to meet use cases. As 5G networks are still limited to some typical scenarios, remote areas such as villages and motorways are not well covered, which limits some applications such as driverless vehicles. Non-terrestrial and specifically satellite communication networks are needed to complement the terrestrial networks for cost-effective, seamless, and ubiquitous service availability. Unmanned aerial vehicle (UAV) communication network is important for fast response in harsh and difficult environments. Maritime communication network is needed to provide ships with high quality communication services. While mmWave can provide Gbps level transmission data rate in 5G.

A new paradigm of wireless communication, the sixth-generation (6G) system, with the full support of artificial intelligence, is expected to be implemented between 2027 and 2030. Beyond 5G, some fundamental issues that need to be addressed are higher system capacity, higher data rate, lower latency, higher security, and improved quality of service (QoS) compared to the 5G system. This article presents the vision of future 6G wireless communication and its network architecture. This article describes emerging technologies such as artificial intelligence, terahertz communications, wireless optical technology, free-space optical network, blockchain, three-dimensional networking, quantum communications, unmanned aerial vehicles, cell-free communications, integration of wireless information and energy transfer, integrated sensing and communication, integrated access-backhaul networks, dynamic network slicing, holographic beam forming, backscatter communication, intelligent reflecting surface, proactive caching, and big data analytics that can assist the 6G architecture development in guaranteeing the QoS. Besides, expected applications with 6G communication requirements and possible technologies are presented.

5G communication considerably overlooked the convergence of communication, intelligence, sensing, control, and computing functionalities. However, future IoE applications will necessitate this convergence. Specific devices, such as VR devices, need to go beyond 5G (B5G) because they require a minimum of 10 Gbps data rates. Hence, with 5G reaching its limits in 2030, the design goals for its next step are already being explored. The key drivers of 6G will be the convergence of all the past features, such as network densification, high throughput, high reliability, low energy consumption, and massive connectivity. The 6G system would also continue the trends of the previous generations, which included new services with the addition of new technologies. The new services include AI, smart wearables, implants, autonomous vehicles, computing reality devices, sensing, and 3D mapping. The most critical requirement for 6G wireless networks is the capability of handling massive volumes of data and very high-data-rate connectivity per device. Figure 1 shows the overview of 6G wireless communication networks

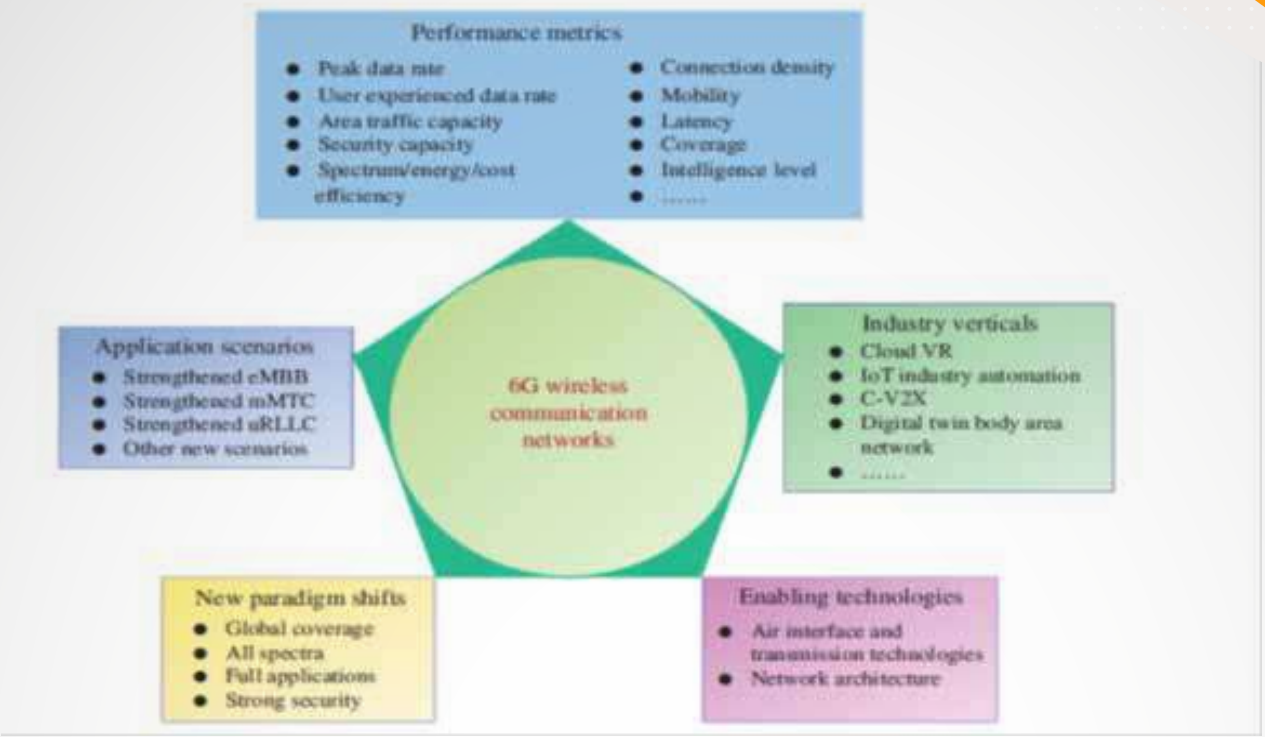


Figure 1. An overview of 6G wireless communication networks.

SOME OF THE APPLICATION OF 6G WIRELESS COMMUNICATION SYSTEMS:

1. Haptic Communication

Haptic communication is a branch of nonverbal communication that uses the sense of touch.The 6G wireless communication will support haptic communication, remote users will be able to enjoy haptic experiences through real-time interactive systems .This type of communication is widely used in several fields such as AI and robotics sensors, physically challenged people to learn through touch, the medical haptic methods in surgery, and gaming

2. IoT industry automation

Industry 4.0 is the short term for the fourth stage of the industrial revolution. Compared to the third stage of the industrial revolution, which uses electronics and information technology (IT) to achieve manufacturing automation, Industry 4.0 aims at bringing the industrial production with significantly improved flexibility, versatility, usability, and efficiency based on the cyber-physical system. As the vision of future smart manufacturing, Industry 4.0 will further introduce information and communication technology (ICT) approach, for instance, integration of the IoT and explore the advantage of ubiquitous connectivity services in industrial manufacturing domain. Owing to the strong focus on machine type communication and ultra-low latency and high-reliability communication, 5G as "one size fits all" solution makes a perfect match with Industry 4.0. However, owing to the peculiarities of such vertical industry, there are many challenges to be considered as well, for instance, the diversity of use cases with demanding requirements in terms of network performance, challenging propagation environment with potential high interference, consideration of brownfield installations which may require seamless integration, specific safety and security concerns and hurdles of cross-industry terminologies

3. Smart societies:

The superior features of 6G will accelerate the building of smart societies leading to life quality improvements, environmental monitoring, and automation using AI-based M2M communication and energy harvesting. The 6G wireless connectivity will make our society super-smart through the use of smart mobile devices, autonomous vehicles, and so on. Besides, many cities in the world will deploy flying taxis based on

6G wireless technology. Smart homes become a reality because any device in a remote location can be controlled by using a command given from a smart device.

4. Autonomous Systems and Robotics:

Several automotive technology researchers are investigating automated and connected vehicles. The evolution of data-centric automation systems is currently surpassing the proficiencies of 5G. In some application domains, it is demanding even more than 10 Gbps transmission rates, such as XR devices. The 6G systems will help in the deployment of connected robots and autonomous systems. The drone delivery UAV system is an example of such a system. The automated vehicle based on 6G wireless communication can dramatically change our daily lifestyles. The 6G system promotes the real deployment of self-driving cars (autonomous cars or driverless cars).

A UAV is a type of unmanned aircraft. 6G networks will support the ground-based controller and the system communications between the UAV and the ground. UAVs help in many fields such as military, commerce, science, agriculture, recreation, law and order, product delivery, surveillance, aerial photography, disaster management, and drone racing. Moreover, the UAV will be used to support wireless broadcast and high rate transmissions when the cellular base station (BS) is absent or not working.

5. Five Senses Information Transfer:

To experience the world around them, humans use their five senses of hearing, sight, taste, smell, and touch. The 6G communication systems will remotely transfer data obtained from the five senses. This technology uses the neurological process through sensory integration. It detects the sensations from the human body and the environment and uses the body effectively within the environment and local circumstances. BCI technology effectively boosts this application.

Top websites for Interview Preparation

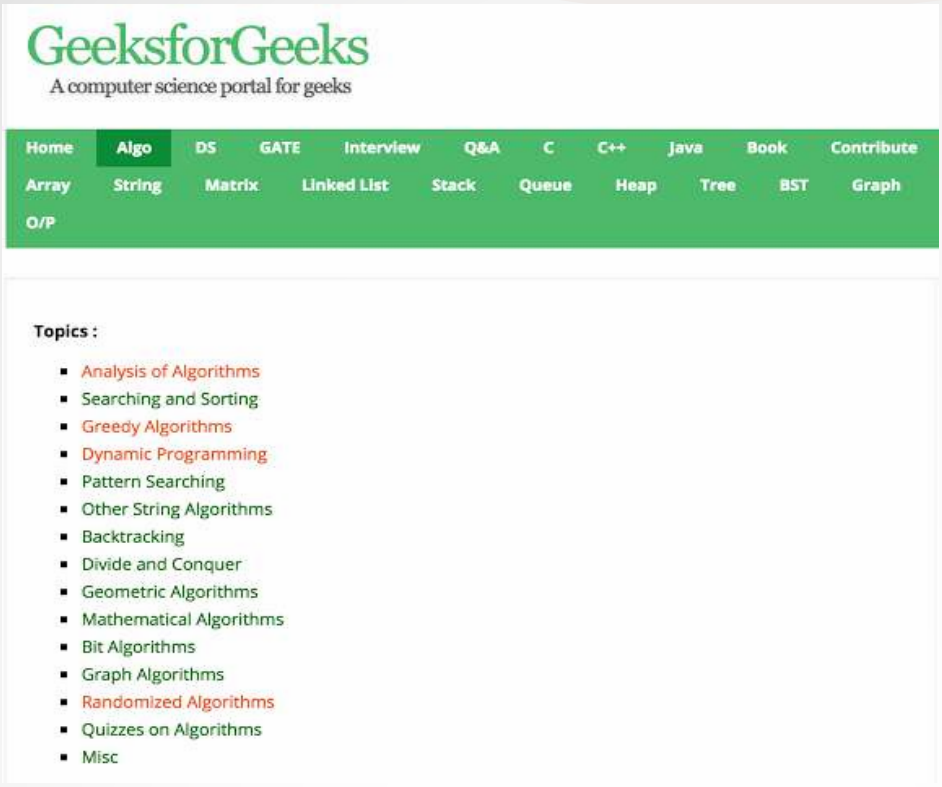
In this article, I'm glad to introduce some of the famous websites for Interview preparation. Due to the pandemic situation online campus placement process is slightly lagging in the engineering field but after this covid period all the companies will start their recruitment process. This is the right time for the students to prepare himself or herself to grab the opportunities one if it is open.

Many companies look for the approach in the problem solving and may still select you if your programming solution is not optimal, However being prepared will help you give the best possible solution in short duration. This will help you clear the interview much faster with higher confidence. The employer will also have a choice to pick the candidate with better solution therefore you have high chances of getting selected.



Dr. S. Gunasekaran
Professor &
Head of Department, CSE

GeeksforGeeks (http://www.geeksforgeeks.org/)



It's hard to define what kind of services GeeksforGeeks provides because it has almost everything you need to prepare a coding interview.

Algorithm sections have quite a few coding questions you can practice with. It's worth noting that answers are provided by the website instead of some random people, so you don't need to search for solutions.

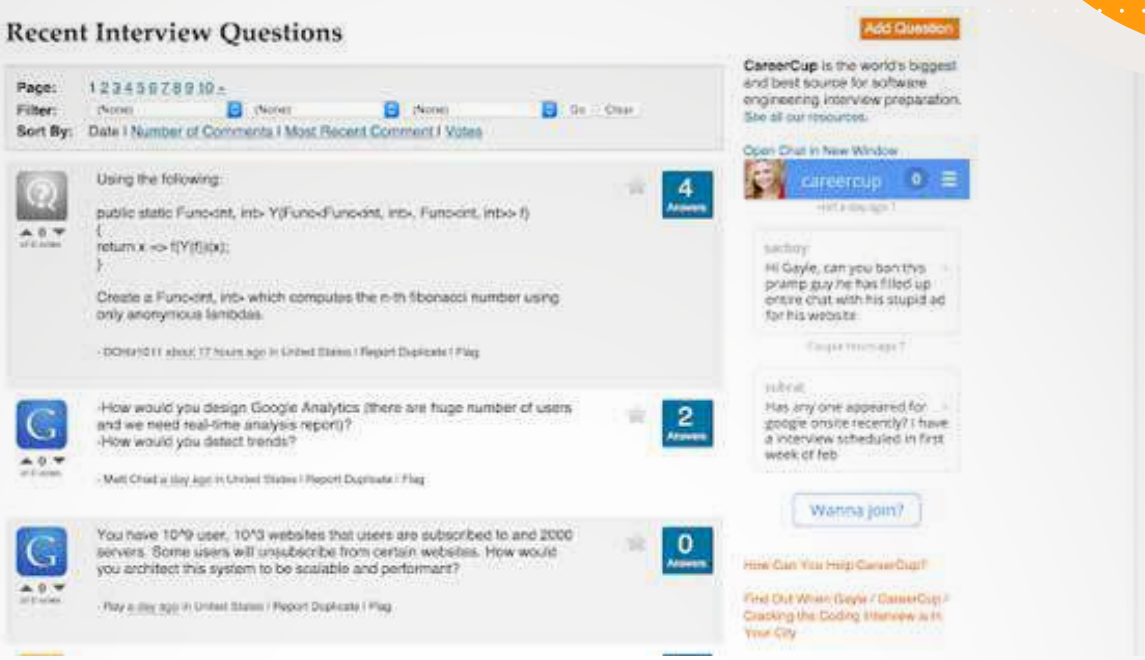
Practice coding questions: The core of coding interview preparation is practice. In this section, I'll tell you where you can get lots of coding questions.

HackerRank (http://www.hackerrank.com/)



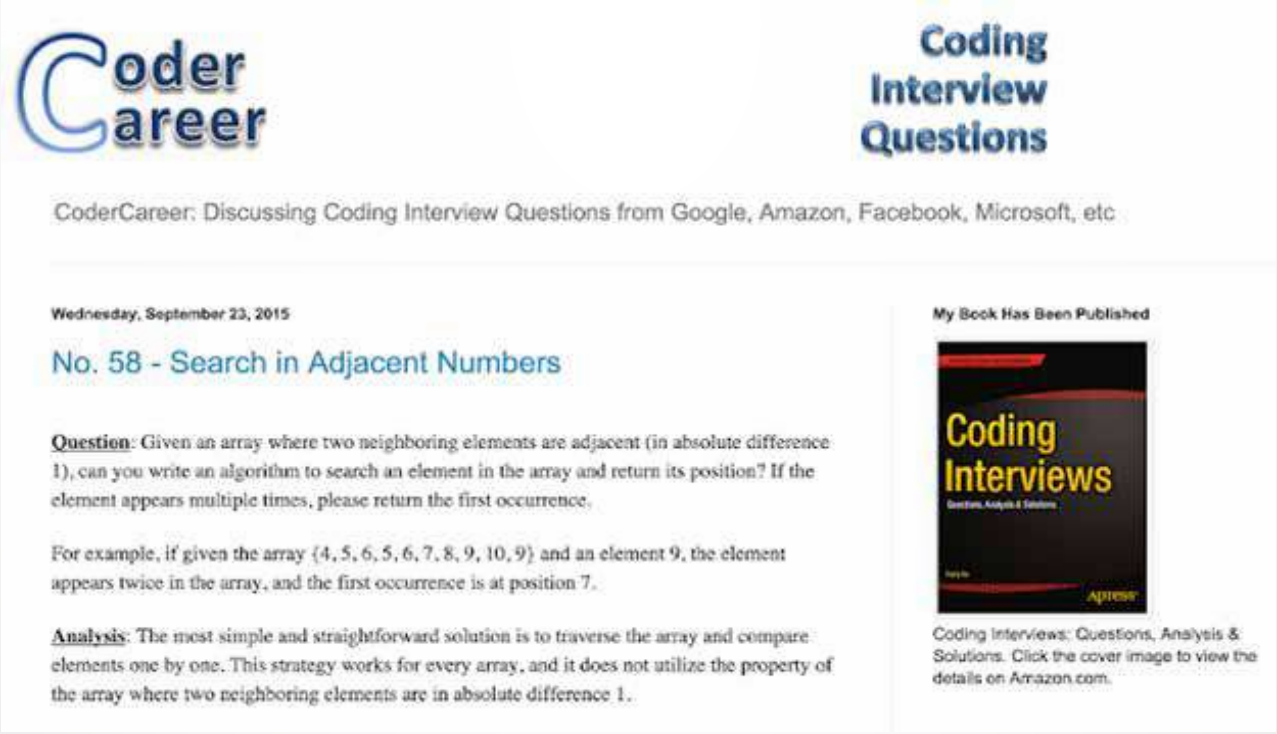
Hackerrank is a platform for both companies and interviewees. They provide tools to help companies conduct online coding interview. At the same time, it has resources for interviewees to prepare interviews. In a nutshell, you can sharpen your programming skills with online challenges. Some online hackathons may also get you hired by top companies like Quora.

Careercup (http://www.careercup.com/)



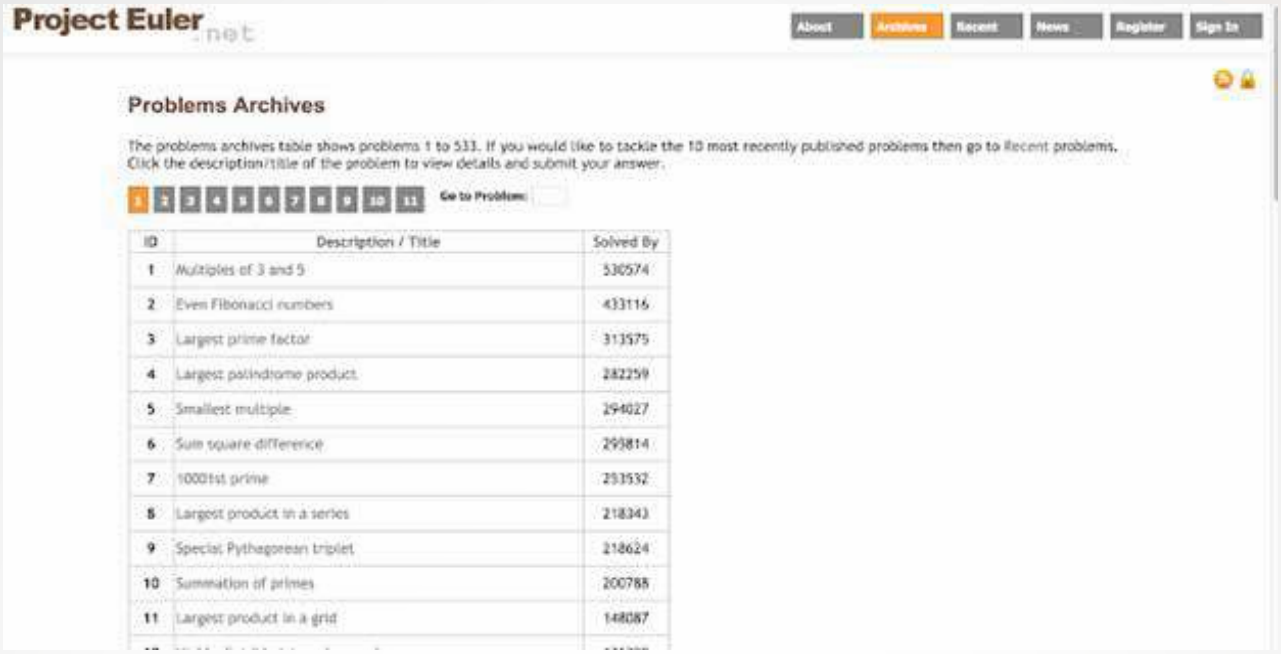
Careerup is another website that provides almost everything for interview preparation. The interview question section allows you to filter coding questions by company, category and position. It's a great place to practice coding questions from your target companies.

Coder Career Blog (http://codercareer.blogspot.com/)



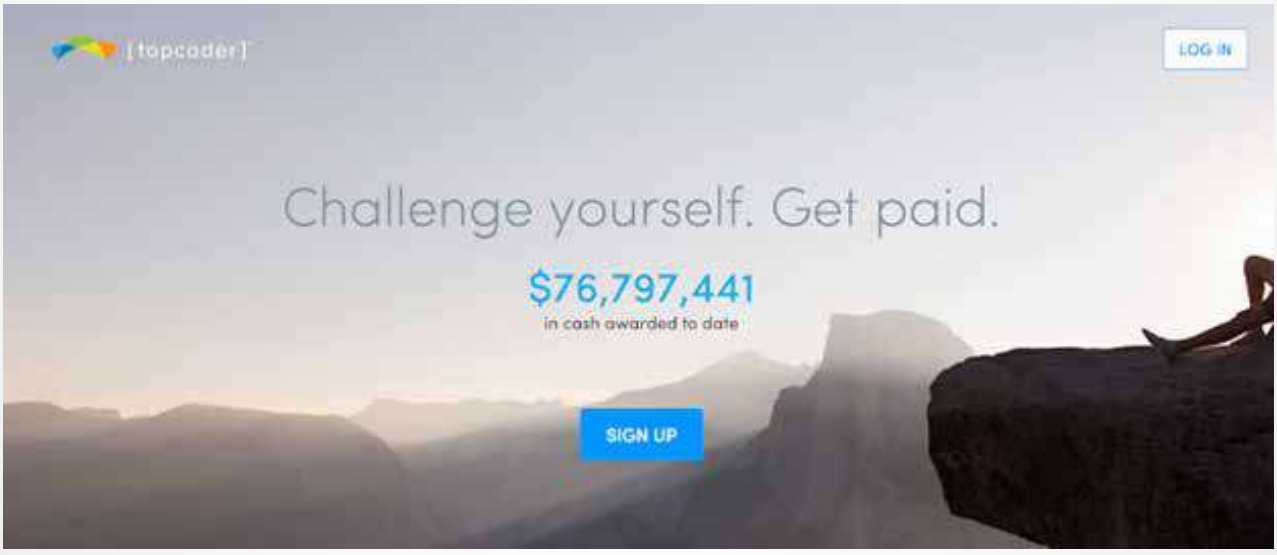
This blog is like book! It contains a lot of interesting coding questions with detailed analysis and solutions. The author Harry He is an experienced engineer and interviewer. Most of the questions are manually selected from Google, Amazon, Facebook, Microsoft, etc..

Project Euler (https://projecteuler.net/archives)



Project Euler is a series of challenging mathematical/computer programming problems that will require more than just mathematical insights to solve. Although mathematics will help you arrive at elegant and efficient methods, the use of a computer and programming skills will be required to solve most problems.

TopCoder(http://www.topcoder.com/)



One of the most popular online online computer programming competition platform. Competitions usually take place twice a week with price and you are also encouraged to work on problems from past competitions. It's a little bit overkilled to use TopCoder to prepare interview as questions here are usually much harder. However, if you are able to perform well on TopCoder, a coding interview is definitely a piece of cake for you.

Big-O Cheat Sheet (http://bigocheatsheet.com/

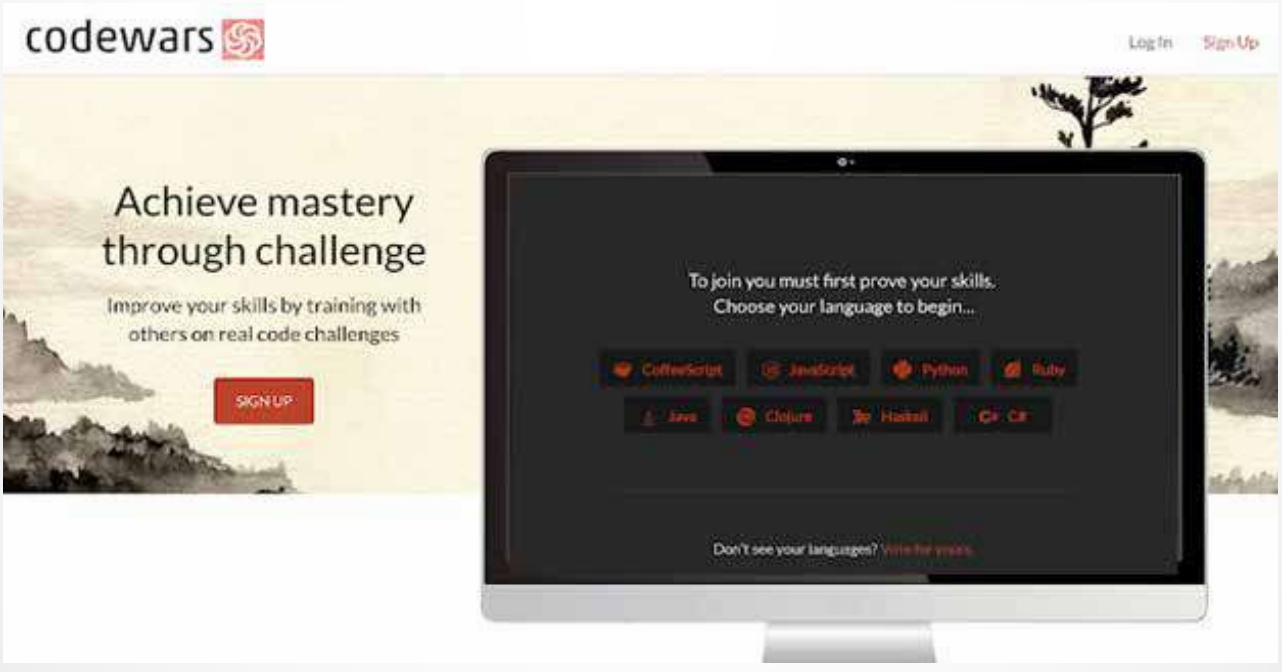


Data Structure Operations

Data Structure	Time Complexity								Space Complexity
	Average				Worst				Worst
	Access	Search	Insertion	Deletion	Access	Search	Insertion	Deletion	
Array	O(1)	O(n)	O(n)	O(n)	O(1)	O(n)	O(n)	O(n)	O(n)
Stack	O(n)	O(n)	O(1)	O(1)	O(n)	O(n)	O(1)	O(1)	O(n)
Singly-Linked List	O(n)	O(n)	O(1)	O(1)	O(n)	O(n)	O(1)	O(1)	O(n)
Doubly-Linked List	O(n)	O(n)	O(1)	O(1)	O(n)	O(n)	O(1)	O(1)	O(n)
Skip List	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(n)	O(n)	O(n)	O(n)	O(n log(n))
Hash Table	-	O(1)	O(1)	O(1)	-	O(n)	O(n)	O(n)	O(n)
Binary Search Tree	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(n)	O(n)	O(n)	O(n)	O(n)
Cartesian Tree	-	O(log(n))	O(log(n))	O(log(n))	-	O(n)	O(n)	O(n)	O(n)
B-Tree	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(log(n))	O(n)

One of my favorite preparation website. You will be surprised about how many people are confused about big-O annotation. This website summarizes everything for you.

Codewars (http://www.codewars.com/)



Codewars is website that helps you sharpen your programming skills with real code challenges. As you can see, the platform now supports quite a few languages including Python, C#, Java, JavaScript etc..

Next is What ?

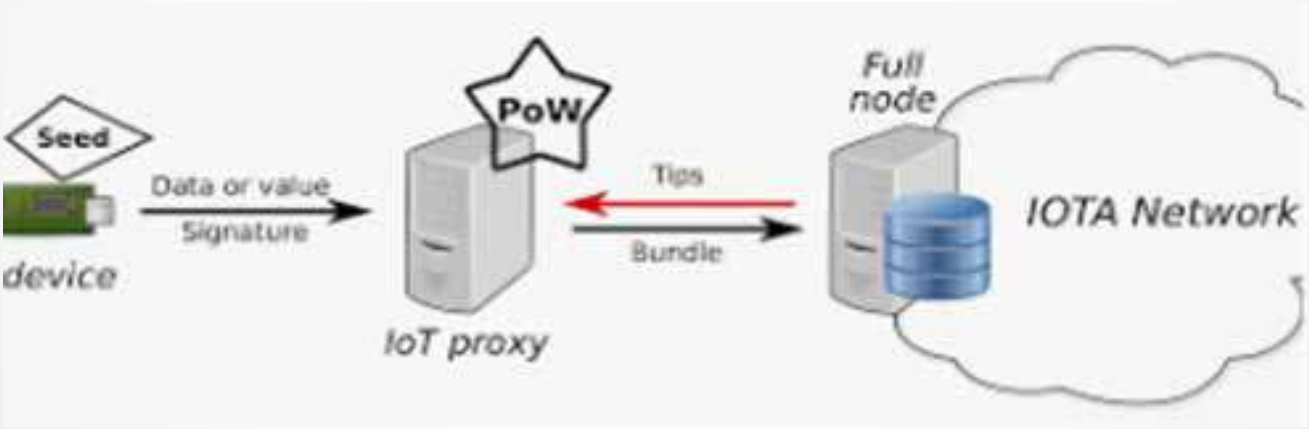


Anand Haridas
Asst. Professor, CSE

Remember the famous tagline of yesteryear cell phone ad-'Next is What?' This catch phrase has acquired a greater magnitude and has found even greater resonance in the technological world in the present times where technological bubbles literally are getting burst prematurely and are facing untimely death in the face of technological waves that promises bubbles that are sturdier and tempered than its predecessors were. So we are left with this vicious question that what is going to be the next big technological offing from this technological wave each time it touches the shore of expectations. And very well, the 'combinational technology' could be the apt answer that would pop out.

The corporate world of late has seen a major paradigm shift towards the trend of working in unison and in collaborative mode and this trend has its own merit as is evident from some of the major collaborations that has been taking place one such being the not so long ago coming together of the two once-telecom majors providing a mutual lease of life, that were on the verge of liquidation for some or the other reason .
And by now this 'coming together' has started evading the technological fronts as well in a bigger way one such being the formation of IOTA, that could almost be considered as coming together of Blockchain technology and IOT technology.

The IOTA ledger was created by David Sønstebø, Dominik Schiener, Sergey Ivancheglo, and Serguei Popov. IOTA is an open-source distributed ledger and cryptocurrency designed for the Internet of things (IoT). It uses a directed acyclic graph to store transactions on its ledger, motivated by a potentially higher scalability over blockchain based distributed ledgers. IOTA does not use miners to validate transactions, instead, users that issue a new transaction must approve two previous transactions and perform a small amount of proof of work. Transactions can therefore be issued without fees, facilitating micro transactions.



(Fig: Simple IOTA)

Although the primordial version of IOTA has been plagued by many a phishing attacks and related vulnerabilities, a subsequent version can be expected that is more resilient and foolproof. Thus it can be learned that this methodology of bringing together various standalone technological innovations under a single umbrella, perhaps could be the much sought - answer to all our future technological needs.

National Youth Day 2021

Why is National Youth Day celebrated on 12 January?

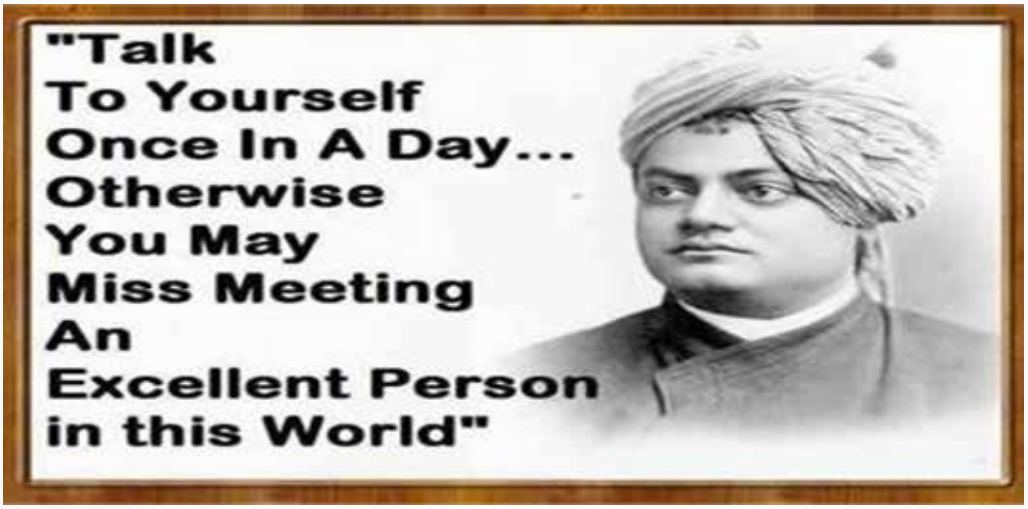


Vignesh D.
Asst. Professor, S & H

National Youth Day is celebrated to commemorate the birthday of Swami Vivekananda. He was a social reformer, philosopher, and thinker. The main objective behind the celebration is to propagate the philosophy and the ideals of Swami Vivekananda for which he lived and worked. No doubt he was a great inspiration for all National Youth of India. Across the country, several functions are organized in schools, colleges, etc.

National Youth Day: History

In 1984, the Indian Government first declared to celebrate the birthday of Swami Vivekananda i.e. 12 January as National Youth Day. Since then the day has been celebrated as National Youth Day all over the country. The main aim of the Government is to make a better future for the country by motivating the youths through the way of their life and ideas of the Swami Vivekananda. It is a great way to wake up the eternal energy of the youths as well as to make the country developed.



Youth is the most important segment of any country. Here are a few ways in which the country can utilize the youth for a better tomorrow-

- The youth comprises almost 34 per cent of the Indian population and they have the power to change the country. By providing opportunities to the youth to express themselves, the country can ensure a brighter tomorrow

- The youth must be provided with courses and opportunities that can help them in understanding governance and polity better. Enabling an interest in governance will lead to fresher faces and names in politics that can alter the government's approach through their ideas.

- From racism to patriarchy, the youth of India has opinions on every pressing issue of the country. Letting them express their views is another way through which the country can utilize the youth for its own development.

- Forming youth bodies that can guide them and also serve as a platform for them. Such bodies can help the youth in representing themselves as the advocates for change.

- The youth must be addressed and treated as an important entity while framing the policies so that they can directly benefit and learn from them.

"We are what our thoughts have made us; so take care about what you think. Words are secondary. Thoughts live; they travel far".
- Swami Vivekananda

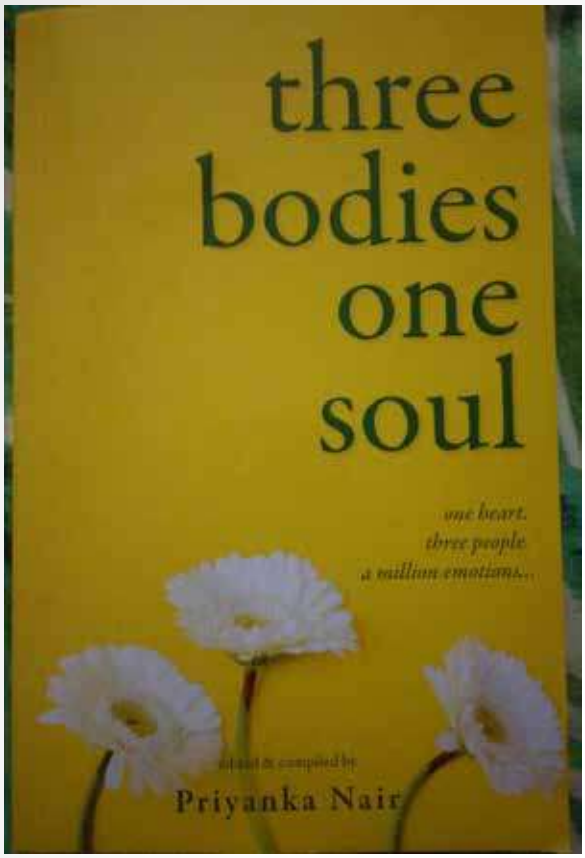
പെണ്ണ

കറുകറുത്തവൾ നിന്നെയെന്നുമൊരു കാനനഭംഗിയാൽ
വർണ്ണിച്ചിടുന്നു
ത്രിസന്ധ്യയാം നേരങ്ങളിൽ സമുദ്രകോണിൽ ആഴ്ന്നു
പോയീടും
സൂര്യരശ്മിതൻ അധര വർണ്ണങ്ങളെറ്റ
നിന്റെയീ പുഞ്ചിരിക്കെന്തു ചന്തം
ലാവണ്യം തുളുമ്പും നിൻ മിഴികളെന്നുമൊരു
ഗജനേത്രത്തിൻ കരിയഴകുപോലെ
കരിങ്കല്ലിൻ ദൃഢതയാം നിൻ
മനസിനെ തോൽപ്പിക്കുവനായ്
സുലഭമായിട്ടൊന്നുമില്ലയീ ഭൂമിയിൽ
ഹൃദ്യമാം വാഴ്ക്കിലും പാരിൽ കേട്ടിടേണം ഹൃദയം
നുറുങ്ങും ദൂഷണങ്ങൾ
വർണങ്ങളെത്ര ഏറ്റുവാങ്ങിലും
പഴികൾ എത്ര ബാക്കിയായ്
കല്ലിൽ കൊത്തിയ ചരിത്രം പോലെ
എന്നും മായാത്ത കാവ്യമാകിലും
പെണ്ണെ നീയൊരു കല്ലായി തീർന്നതെന്തുകൊണ്ട്?



Anima P S
Admin Asst - ASET

STUDENTS' WRITE UP





CERTIFICATE
OF PUBLISHING

Adithya Muralidharan



Adithya M
(2017-21 ECE)

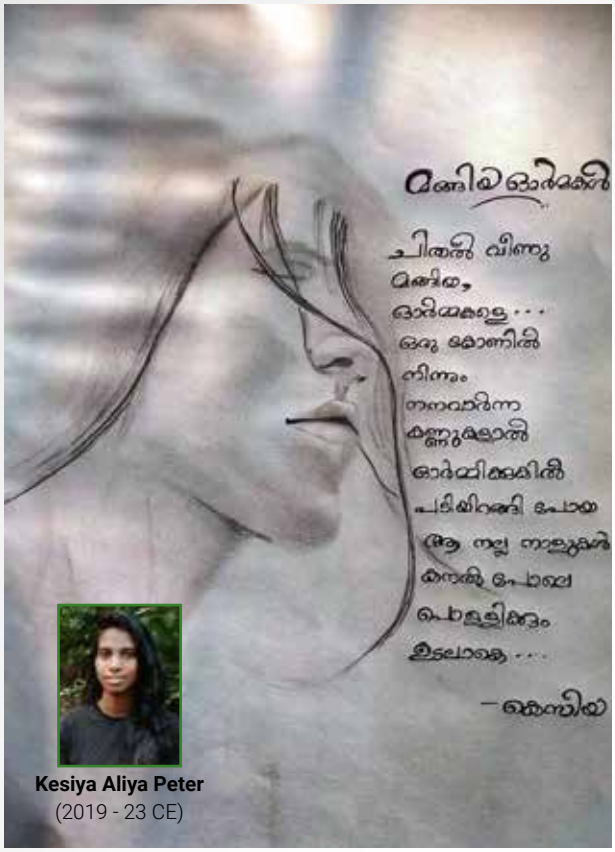
Congratulations to Adithya M for publishing the story 'it just took a moment' in the anthology 'Three Bodies One Soul'. Published by inkfeathers.



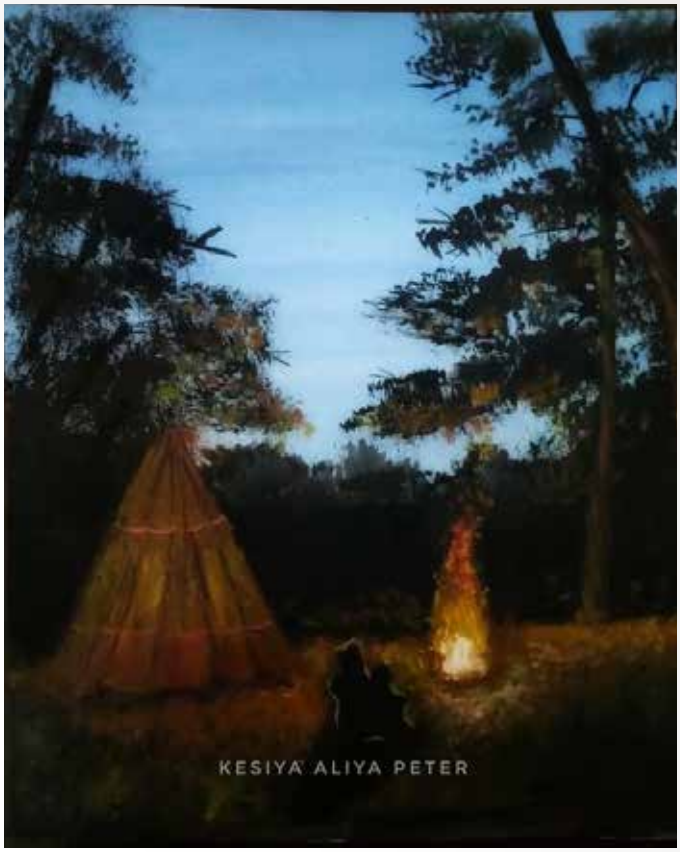
Arjun Satheesh
(2018-22 CE)



Chelsea R
(2017-21 ECE)



Kesiya Aliya Peter
(2019 - 23 CE)





Namitha N
(2017-21 EEE)



Sruthi K
(2018-22 CE)



Mithra P C
(2020-24 CE)

ON A SINGLE MINUTE

That had come only with a minute
And it is that much powerful to swallow
Earth the great women
It beaten our heart with a great sorrow
Working men and women
Playing and studying children
Doesn't know what is happening
In a course of time
They lost their relations
Their valuable possession
On a single minute
Although wars are all asking man
With the help of men
But now the nature is attacking men with a great motion
Let the nature forgive man
OR
Let the man forgive nature



Megha J Das
(2018-22 ECE)

ആത്മബലം

കൂരിരുൾ വഴിത്താരയിൽ നീയെൻ
ദീപനാളവുമായി വന്നു
ആതപം സഹിച്ചു നിൽക്കവേ ഞാൻ
ഇളം തെന്നലായി വന്നു നീ
കുളിരിൻ തെന്നൽ വീശവെ മെല്ലെ
സുഗന്ധസുമം വിതറി നീ
മനതാരിൽ കാർമുകിൽ പെയ്യവേ
ആനന്ദത്തിൻ തിരി നീട്ടി നീ
തുഷാര കണങ്ങളാൽ എൻ മനം
നിറയുന്നു നിൻ സ്നേഹത്താൽ
ഞാൻ എന്നും സാമോദം ചൊല്ലുമതെൻ
മനശക്തിതന്നെ എന്നും



Saranya S
(2020-24 CE)

ASET ACTIVITIES

Republic Day celebration at ASET

ASET celebrated the 72nd Republic Day on the 26th January, 2021. Staff and Faculty members filled with a feeling of patriotism and dedication gathered in front of the building. The celebration started with the hoisting of the National Flag by Principal, Dr. P.R. Sreemahadevan Pillai. In his speech, the principal highlighted the importance of the constitution and its unique features. The speech was followed by the National Anthem. Mr. Sivakumar S. K., Welfare officer coordinated the event.



Accolades from Green 9 ENSAV Club

EEE department of Ahalia School of Engineering and Technology inaugurated Green 9 ENSAV club. This Green9 EnSAv club is a constituent of the Institution of Green Engineers, an international organization with its headquarters at Chennai. The main objective of this club is to promote energy conservation activities among the public. Also they concentrate on creating awareness and striving hard towards the sustainable development goals viz SDG 7, SDG 9 and SDG 13.

For the past two years ASET GREEN 9 EnSAv club formed by the EEE department with Dr. Murugananth, Professor and Head, EEE department as faculty advisor has conducted many programs to create awareness among students, staff and public. In association with Energy Management center, Trivandrum the club has conducted walkathon and signature campaign to promote energy conservation activities. Energy audit has been conducted at certain areas viz. Ahalia medicine manufacturing unit (as students project), ASET etc.

With these activities of the club, we have been nominated for the following awards of the institution of green engineers during the two day SDG Conclave organized by them during 2nd and 3rd October 2020. This was an online event, where 14 Green 9 ENSAV clubs of various institutions presented their activities and delivered talks on SDG 7, 9 & 13.

ASET ACTIVITIES

The nominations are for
1. Premier ENSAV club Award
2. Best EnSAv faculty advisor award
3. Best student ENSAVER award

ASET GREEN 9 EnSAv club also took part in it at 12.30 pm to 01.30 pm.on 2nd October 2020.The event was telecasted on YouTube as a live program and was watched by more than 10000 viewers.At the valedictory function of the SDG conclave, the results of the awards were announced, which said that we received all the three awards for which we made our nominations.







Training Program on 'Sustainable Engineering'

A twelve-week (2 hours per week) training program on Sustainable Engineering was organized by Ahalia Palakkad ISTE Chapter, from August – November 2020. Dr. P. R. Sreemahadvan Pillai, Principal, Ahalia School of Engineering & Technology was the resource person. The training was conducted via google meet and 107 participants registered and participated in the training program. The concepts of Sustainable Engineering were discussed, quoting real life examples. Participants were given assignments to ensure their involvement and explore the topic in detail. A good number of participants attended all sessions and completed the course. Certificates were issued to participants upon completion of the course.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group

ASET ACTIVITIES

Pledge – 'Not Zero Net Zero'

On 12 December 2020, "TERRE Policy Centre", as part of its Smart Campus Cloud Network (SCCN), had initiated the pledge for 'Carbon Neutral Education Institutes' in an on-line event called 'Not Zero Net Zero'. Ahalia School of Engineering and Technology, Palakkad had conducted an online event for taking the oath on 12/12/2020 at 5 p.m. The event was inaugurated by Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology. The pledge was delivered by the student representatives of all B. Tech. batches. All faculty members, students and non-teaching staff participated and the session lasted for an hour. The event was successful and it created awareness among the participants regarding the importance of reducing carbon footprints in the college campus.



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group

Webinar on 'Find The Entrepreneur In You'

The IEDC of Ahalia School Of Engineering and Technology conducted a webinar on the topic "Find The Entrepreneur In You" on 19th December at 4 PM. The session was handled by Mr. Nithin Madhavan, Director, Kannur Technolodge, an initiative of Kerala Start-up Mission. The webinar mainly focus on the concept of how to bring out and develop your ideas into entrepreneurship.



Mr. Nithin Madhavan
Director, Kannur Technolodge

Panel Discussion on 'Educated Youth in Agriculture: Opportunities and Threats'

Ahalia Group Educational Institutions in association with Unnat Bharat Abhiyan and Rural Entrepreneurship Development Cell under the Ministry of Education, Govt. of India, Institute's Innovation Council and ASET Alumni Association organized a Panel Discussion on 23 December 2020 from 4 to 6 p.m. on the topic 'Educated Youth in Agriculture: Opportunities & Threats'.



Dr. B. N. S. Murthy
Horticulture Commissioner
Ministry of Agriculture and Farmers Welfare, Government of India



Swaroop K. Ravindran
Founder, Kunnampully Organic College Vidhyarthi Prathibha Award 2019 Alumnus, ASET



Dr. P. Indira Devi
Professor (Agri.Economics) & Director of Research (Rtd)
Kerala Agricultural University



Raghu. O. Nair
Founder & Managing Partner
Pournami Agritech



Dr. Gopakumar S.
Director of Education
Kerala Agricultural University

ASET ACTIVITIES

Know UR Community

The IEEE Student Branch, IEEE Antennas and Propagation Soceity (APS) Student Branch Chapter, IEEE Women In Engineering (WIE) SB Affinity Group of Ahalia School of Engineering and Technology Palakkad organized a competition titled "Know UR Community" for the second year students of the IEEE Student Branch on 30 December 2020. 18 IEEE members and 2 non-IEEE members attended the session. The competition required the participants to first identify the top five problems or challenges that people face in their locality and then present a solution to any one of the problems. Five teams (Pioneers, Solutrean, Saphire, Amigos, Little Stars) participated in this event, and their presentation topics were Financial Crisis, Water Scarcity, Smart Garbage Monitoring System, Energy Wasting in Street Lamps and Increase in Non-biodegradable Waste. The judges for the event were Prof. Prakash D. (HoD – Mechanical) and Prof. Kripa K. M. (HoD – Civil). Team Pioneers, consisting of Mr. Anirudh K. (2nd year ECE), Ms. Neha R. (2nd year ECE) and Mr. Sankulesh Narayanan M. (2nd year ECE), was judged as the winner of the event. The event was coordinated by Mr. Thejas S. (2nd year CSE) and Ms. Dharani T. (2nd year CSE).



Webinar on Home Kitchen Garden-"KRISHIKKALAM"

NSS Unit of Ahalia School of Engineering and Technology organized a Regional Level (Thrissur & Palakkad) Webinar on Home Kitchen Garden-"KRISHIKKALAM" on 06.01.2021 (Wednesday) from 10.00 am to 11.00 am in association with APJAKTU NSS Cell. The training was conducted as a follow-up activity of the NRPF (Natural Resource Protection Force) program. The Webinar was led by Mr. Dinesh Souparnika (Ahalia School of Engineering Technology). The platform used was Google Meet. Mr. Roshan Sanu. Y (NSS Programme Officer, ASET) gave an introduction about the new initiative of NRPF - "Thanal" in which volunteers have to plant and protect a sapling on



Dinesh K
Lab Instr EEE, ASET

their birthday. Ms. Anjana (NSS Volunteer, ASET) delivered the Welcome Address. Ms. Megha (NSS Volunteer, ASET) delivered the Vote of Thanks.

Around 100 volunteers from various Engineering Colleges from Palakkad and Thrissur districts participated in the program.

Placement training program

Center for Career Development, Ahalia School of Engineering and Technology organized a placement training program on 05.01. 2021 from 3.00 P.M on "Career in Management for Engineers" by Prof. Sreeranjan Menon for 2nd and 3rd year students of ASET.

Center for Career Development, Ahalia School of Engineering and Technology organized a placement training program on 07.01. 2021 from 4.00 P.M on "Effects of positive attitude in career building" by Mr Balasubramanian , Sr. Trainer, Chennai for 2nd and 3rd year students of ASET.

Center for Career Development, Department of ECE, Ahalia School of Engineering and Technology organized a placement training program on 11.01. 2021 from 2.00 P.M on Presentation of Infosys Previous year Questions by S5 ECE Students

Center for Career Development, Department of ECE, Ahalia School of Engineering and Technology organized a placement training program on 13.01. 2021 from 2.00 P.M on Presentation of Accenture Previous year Ques-



Mr. Balsubramanian
Sr. Trainer, Chennai



Mr. Sreeranjan Menon T
Asst. Prof, ASM



Vol 7 Issue 1
January 2022

ASET NEWS

A Monthly Newsletter of
Ahalia School of Engineering & Technology

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY
ISO 9001:2015 Certified Institution. Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University.
Ahalia Health, Heritage & Knowledge Village, Palakkad - 678557. Ph: 04923 - 226666. www.ahalia.ac.in

VISION

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.
To promote research and consultancy for institution development and contribution to the society.

PRINCIPAL'S MESSAGE

WELCOME ANNO DOMINI 2022



Dr. P. R. Sreemahadevan Pillai
Principal

In a post-pandemic scenario, economic changes are fundamental. The Financial Times reported 100 companies that, against all odds, thrived during the crisis. Along with commercial giants like Amazon and Microsoft, e-commerce companies knew how to disseminate the adoption of technological solutions to help other businesses and ventures stay afloat. Not only did they increase their own revenues, they also helped to bolster the millions of allied users dependent on their products and services. Virtualization and digitalization will be a key component in creating stronger companies and anticipating the roadblocks while preparing a strategy. Looking ahead to 2022, challenges that businesses could face and how technology can provide solutions to mitigate these impending issues is of much relevance to engineers.

Many business processes tend to consume time and resources without adding value. Machine learning and MLOps algorithms to locate areas of opportunity, where processes can be automated, reducing human interference and the tendency for errors and delays, is of utmost relevance. In addition to eliminating repetitive processes, however, the correct adoption of artificial intelligence and machine learning can also provide invaluable data to project operational shifts and future results, empowering decision-making with meaningful values.
Legacy apps tend to stay on the market because there's a rumor that upgrading them will be expensive or complicated. However, cloud-native applications offer opportunities that will multiply value in the long run by reducing time to create and market.

It is estimated that 52% of organizations have suffered security breaches recently. These threats often take more than 200 days to report, and recovery costs can be very high. Having a security team on the hunt for threats to data and servers is an important strategy in anticipating attacks as a preventive defense. In addition, a system of pre-approved actions reduce the response time to neutralize a cyber-attack before it's effective.

Now more than ever, technology is fundamental to business, and it's no longer just about infrastructure; it's about solutions. Engineering hereafter should have a holistic effort to face the challenges of the emerging scenario. We should equip our budding engineers to face a new world order.

STUDENTS PLACED IN VARIOUS COMPANIES





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CONGRATULATIONS





VEENA S. ANUPAMA S NAIR

B.TECH(2017-21)

ELECTRONICS AND COMMUNICATION ENGINEERING

AS

Assistant System Engineer-Trainee in Grade Y.

AT

tcs | TATA CONSULTANCY SERVICES



CONGRATULATIONS

ASET TOPPERS: 2018 - 2022 (6th Semester)



Sreejith S.
ME (SGPA 9.86)



Archana S.
CSE (SGPA 9.76)



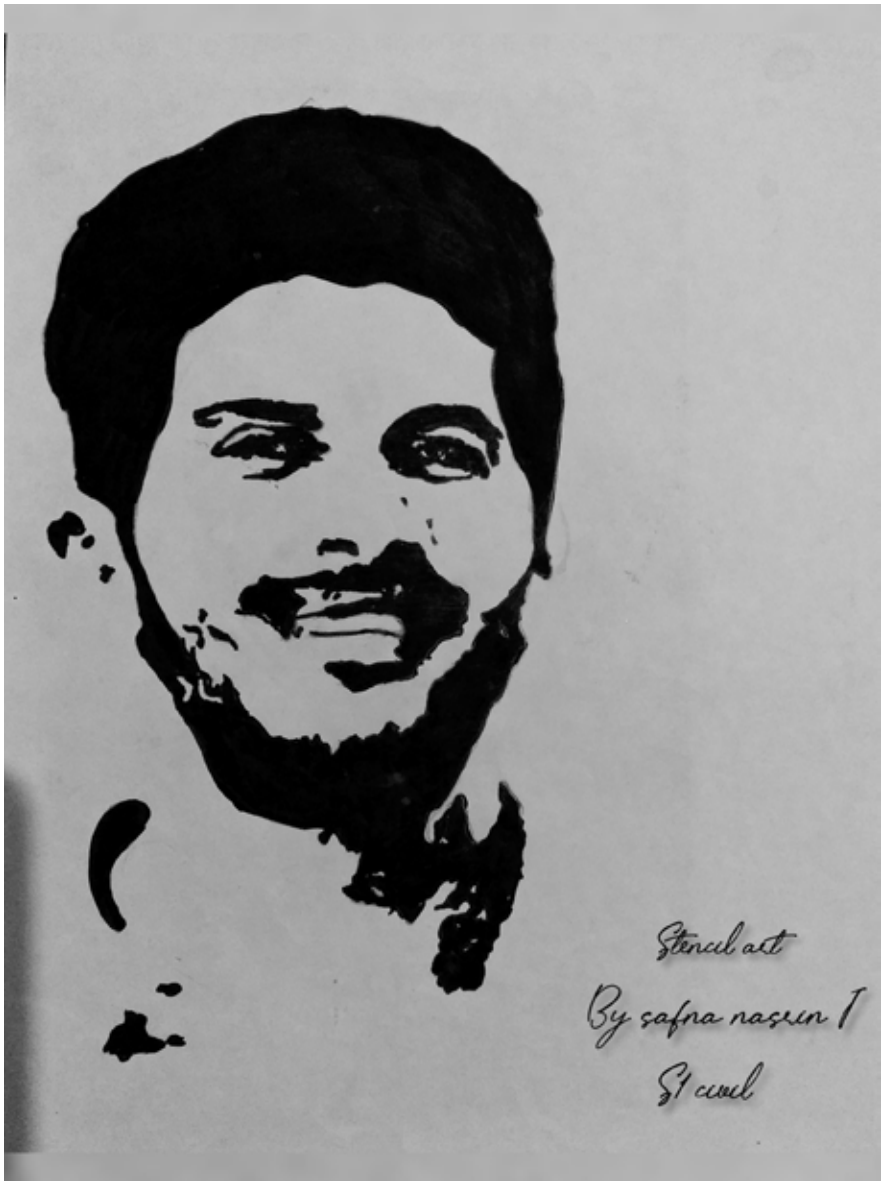
Shafna N.
ECE (SGPA 9.39)



Sreejith A.
EEE (SGPA 9.30)



Varsha V.
CE (SGPA 8.52)





Safna Nasrin I.
CE 2021- 2025

‘GENDER NEUTRALITY’ IS INDEED A HOMECOMING..!



Anand Haridas
Asst Prof. - CSE

Each time this planet earth transitions into a new phase, we the humans, the evolved inhabitants of this buoyant planet too gets pulled into this transition phase in an even bigger way and this is remarkably evident in all walks of life starting from the technological surges that the world has been witnessing, the economic prosperity the world has embraced, the spiritual and moral ascendance of the countrymen and of late the cultural progression that dissolves the stubborn and irrational boundary of gender discrimination - Gender neutrality. The so called ‘gender wall’, perhaps should have been the one that got demolished much earlier than the Berlin wall in all the rightful sense. Irrational gender discrimination and categorical polarization has taken a heavy toll on the growth and evolution of this world and this would wreak havoc if unchecked, luckily the entire world seems to have opened their eyes and kept it wide open too that was once kept wide shut with the thick blindfold of prejudice and discrimination.

The world has started transitioning, briskly for the good and we are in the best our times and it can only get even better from here. As the world sways into yet another chapter the acme for this year and subsequent years is going to be the gender neutrality. Gender neutrality had started creating ripples across the world much earlier itself and now this ripple has cast its captivating spell in our nation too, rather the ‘ripple effect’ is here to be sensed by us. And in the coming years the world would witness the transmutation of this ripple into a surging wave that would eventually swallow the entire planet. Perhaps some deluges are for the good, so is gender neutrality. A gender neutral state is indeed a progressive one; it leads to a future that would be liberating in all sorts. Rather they would create an unbounded existence that would accelerate the evolution of human race in an unprecedented manner. And that day is not very far when ‘comprehensive gender neutrality’ would find its way into the happiness index parameters that would determine the progressiveness and prosperity of a nation.

Gender neutrality could rightly be classified as a byproduct of its predecessor –Gender equality. The struggle for Gender equality could be one of the oldest and longest fought wars in the history of mankind that has mutated many a times over the course of decades. Though most of the times this battle was non vocal and dormant, it has remained as a potential epoch maker. The equality notion, has paved the way for the establishment and the subsequent flourishment of an undifferentiated commune in a big way that has started thriving happily rather in a content way and this state of contentment, when all the living beings are merged into the oneness of existence is perhaps the ultimate destination that can be aspired for.

A heightened sense of gender neutrality would indeed be a homecoming of sorts as we the humans are not the physical body rather we are the souls and souls belong to the spiritual world and souls are here on this material world called planet earth temporarily for a purpose and would eventually return to the spiritual world rather would merge into the oneness of the spiritual world once the mission is fulfilled. The highest realm of spiritual world doesn’t have any discriminatory instincts; rather they are genderless in thoughts and deeds. The inhabitants of the spiritual world, the pure souls, are strictly gender less rather the pure soul doesn’t have any gender they are strictly ‘uni’.

The actions of the souls when they were alive on this planet earth in the identity of a human has lead to the creation of the inevitable baggage what is often referred to as the ‘soul burden’ and these soul burdens determines the gender and the subsequent physical body into which a soul is forced to get into over subsequent incarnations. But, not is the case with an earth bound soul. An earth bound soul is a heavily burdened soul and therefore it still has a gender identification associated with it and they are bound by their worldly acts, and are thus forced to remain in a state of limbo in the various realms of this material world. These souls are perhaps equipped with a unique ability- to possess and manipulate humans. And this would largely explain the reasons behind a catastrophe our world is increasingly witnessing in the present times that of -Gender dysphoria….

(The views expressed here are personal)

INDUSTRIAL VISIT

31 November 2021

On 30/11/2021 Tuesday the Industrial visit from Ahalia School of engineering and technology was to Pyarelal Foams Pvt Ltd at Kanjikode, Palakkad. The students from S5 ECE and EEE were taken for the IV. One teacher from ECE (Mr. Abhijith Valsan), Ms Bindu Valoor (Manager, Academics Outreach, Ahalia group of Institutions) and Ms Rinsy .M (Counselling Psychologist, Ahalia Group) accompanied them. Mr. Prashob (HR Manager, Pyarelal Foams Pvt Ltd) explained all the procedures to the students and addressed their queries. IV started from Ahalia School of engineering and technology at 1.30 pm and returned back at 3.45 pm.





2 December 2021

On 02/12/2021 Friday the industrial visit from Ahalia School of Engineering and Technology was to Kerala Startup Mission's Fab Lab and Incubation Centre in Government Polytechnic College, Palakkad. The students from S7 Mechanical and S7 ECE were taken for the IV. Mr. Sandeep Satish (Asst. Prof., Mechanical), Mr. Vignesh V. (Asst. Prof., Mechanical), Mr. Santhosh C. (Asst. Prof., ECE), Ms. Bindu Valoor (Manager, Academics Outreach, Ahalia Group of Institutions) and Ms. Rinsy M. (Counselling Psychologist, Ahalia Group) accompanied them. Mr. Vignesh (Business Development Officer, KSU Palakkad Centre) briefed students about the start up initiation process and support available. They were taken around the fab lab. The IV was from 1.30 p.m. to 4.15 p.m.



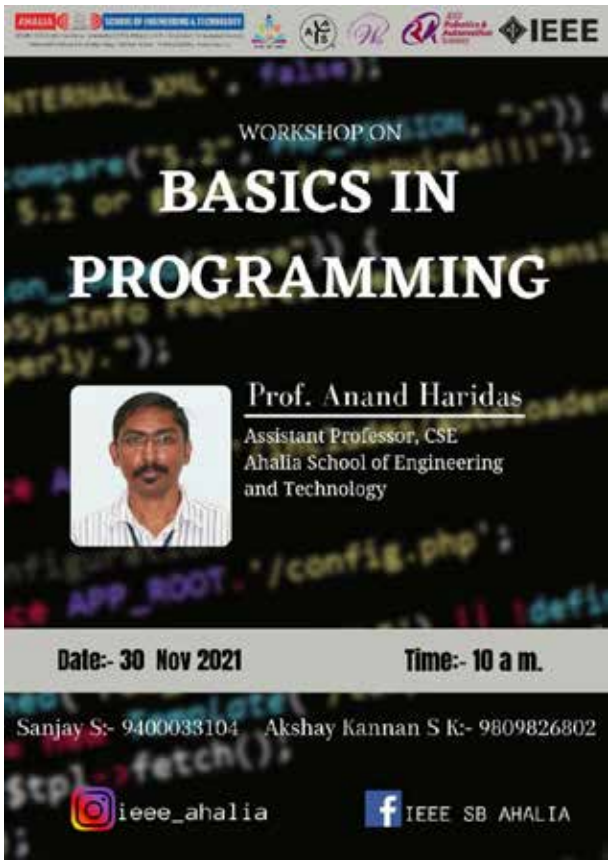
15 December 2021

On 15/12/2021 Wednesday the Industrial visit from Ahalia School of engineering and Technology was to the exhibition organised by BEML on account of Azadi Ka Amrit Mahotsav. The students from S7 CSE were taken for the exhibition. One teacher from CSE (Mr. Roshan Sanu Y.), Mr. Abhijith Valsan (Training and Placement Officer, Ahalia School of Engineering and Technology), Ms Bindu Valoor (Manager, Academics Outreach, Ahalia group of Institutions) and Ms Rinsy M. (Counselling Psychologist, Ahalia Group) accompanied them. IV started from Ahalia School of Engineering and Technology at 1.15 pm and returned back at 3.15 pm.



WORKSHOP ON 'BASICS IN PROGRAMMING'

Department of Electronics and Communication Engineering, Ahalia School of Engineering and Technology organises a workshop on 'Basics in programming' on 30 November 2021.The session was handled by Mr. Anand haridas, Assistant Professor , Dept. of CSE, ASET.



WEBINAR ON "INTRODUCTORY NOTE TO BIO INSPIRED ALGORITHMS"

Department of Electrical and Electronics Engineering, Ahalia Palakkad ISTE Chapter of Ahalia School of Engineering and Technology organises a Webinar on "Introductory Note to Bio Inspired Algorithms" on 1st December 2021.The session was handled by Mrs. R. Priya , Assistant professor ,Mankula vinayagar Institute of technology ,Puducherry.



WEBINAR ON "A SPECIAL CONCRETE WITH NON-CORROSIVE REINFORCEMENT"



The Civil Engineering Department of Ahalia School of Engineering and Technology organized a Webinar on topic "A Special Concrete with Non-Corrosive Reinforcement" on 18th December 2021 at 5.00 PM. Ms. Swetha S. of Fifth semester Civil Engineering gave the welcome address. The presidential address was delivered by Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology. The webinar was presented by Dr.Komathi Murugan, Post-Doctoral fellow, IIT Madras. She spoke about the technical aspects and importance of Non-Corrosive Reinforcement in the modern construction industry. She also gave an insight about the Researches going on in the field of textile reinforcement and its various applications. The session was wrapped up by handing over a virtual memento to the resource person by Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology. 67 participants attended the event.

"ADVAYA"

"ADVAYA" was NSS Fest organized by APJAKTU NSS CELL and NSS UNIT OF GEC BARTONHILLS for fighting against Dowry, in connection with Dowry Prohibition Day(Nov 26). Various competitions were held in online mode. Around 30+ entries where contributed by students of Ahalia School of Engineering and Technology. In that Fest we have got 2 winners:-
Rahul R Menon (S5 CSE) - 2nd prize in Photography contest.

Soumyasree, Swetha, Akshaya, and Swapna of S5 CE - 3rd in Group Presentation Competition.


Rahul R Menon
S5 - CSE


Soumya Sree
S5 - CE


Swetha
S5 - CE


Akshaya
S5 - CE


Swapna
S5 - CE

And finally Ahalia School of Engineering and Technology NSS Cell Unit No. 513 has Secured overall 3rd Position in Kerala.

PALAKKAD VISION 2030

Palakkad Management Association (PMA) prepared and released a Vision Document 2030 proposing action plan for sustainable development of the district. Ahalia Group of Educational Institutions is the knowledge partner of PMA for Vision 2030.

Dr. P. R. Sreemahadevan Pilai, Director, Ahalia Group Academic Institutions is the Chairman of Education Vertical of Vision 2030.

The Vision 2030: Phase-II, which is the implementation phase is the way forward. A meeting was organised to brain-storm this on 08 December 2021 at Madhava Raja Club. Shri. Mohan Murthi, MD, Reliance Industries, Europe was the chief guest. Mr. Abhijith Menon, Training and Placement Officer, ASET and Ms. Bindu Valoor, Manager, Academics Outreach, had discussion with him regarding the collective development of Palakkad. He proposed to envision a broader time frame i.e. Vision 2050, as Palakkad has huge scope for development; but a lot of ground work have to be done in the meantime.



NATIONAL ENERGY CONSERVATION DAY CELEBRATIONS

December 14th is celebrated as National Energy Conservation Day. In connection with it Ahalia School of Engineering and Technology & Ahalia Alternate Energy Pvt. Ltd. along with Centre for Environment and Development & Energy Management Centre, Government of Kerala, Trivandrum, organized a seminar on energy conservation from 1.00pm to 4.30pm on the same day.

The chief guests of the day were Shri. K Babu, MLA, Nenmara Constituency, Dr. Krishna Kumar Kishor, Executive Director, Ahalia Group of Institutions and Vice-Principal, Ahalia School of Engineering and Technology and Dr. G Muruganantha, Head of the Department, Electrical & Electronics Engineering. The resource persons for the seminar were Shri. Mohandas T V, Sr. Consultant, Athul Energy Technologies, Thrissur Shri. Santhosh A, BEE Accredited Energy Auditor, Athul Energy Consultants Pvt. Ltd., Thrissur,Dr. Sasi K Kottayil, Adjunt Professor, Tezpur University The gathering included Heads of all departments and staff members of department of electrical and electronics engineering of Ahalia School of Engineering and Technology, NSS Volunteers and members of Ahalia Alternate Energy Pvt. Ltd.

The programme began with a welcome address by Ms. Sowmya S, Assistant Professor, Department of electrical and electronics engineering, Ahalia School of Engineering and Technology. The presidential address was delivered by Dr. Krishna Kumar Kishor, Executive Director, Ahalia Group of Institutions and Vice-Principal, Ahalia School of Engineering and Technology. The inaugural address was delivered by Shri. K Babu, MLA, Nenmara Constituency. The first session entitled "Energy Conservation-Technical Aspects" from 01.30 PM to 2.15 PM was handled by Shri. Mohandas T V, Sr. Consultant, Athul Energy Technologies, Thrissur. The second session entitled "Energy conservation in buildings" from 02.15 PM to 03.00 PM was handled by Shri. Santhosh A, BEE Accredited Energy Auditor, Athul Energy Consultants Pvt. Ltd., Thrissur. Third session entitled "Electric Vehicles" from 03.00 PM to 03.45 PM was handled by Dr. Sasi K Kottayil, Adjunt Professor, Tezpur University. The vote of thanks was delivered by Ms. Swathy M V, Assistant Professor, was handled Ahalia School of Engineering and Technology.







URJA KIRAN 2021 - 2022 - GO ELECTRIC CAMPAIGN

Ahalia School of Engineering & Technology organized energy conservation awareness program Energy Management Center of the Government of Kerala and Ahalia School of Engineering and Technology, Palakkad organized an energy conservation awareness program as part of the Urja Kiran project. Malampuzha MLA, Shri. A. Prabhakaran inaugurated the function. Students and the public held an energy conservation rally and an energy conservation pledge. All the participants collected signatures for energy conservation and others from their side. Pudsery Grama Panchayat President Smt. Praseetha, Malampuzha Block Panchayat Member Mrs. Sundari Dileep, teachers of Ahilya School of Engineering and technology Dr. Krishnakumarkishore (Vice Principal), Lakshmi Suresh, Roshan Sanu and Subin Chacko spoke on this occasion.the event held at Seminar Hall of Ahalia School of Engineering and Technology Students and staff attended. As part of the drive to increase energy conservation, energy conservation stickers prepared by college students and teachers in the field of electrical engineering have been distributed to various institutions in the district. The Electrical Department of the College has decided to turn the Central Government's Energy Ray Project and Energy Management's Energy Conservation Program into a week-long celebration.













ENERGY CONSERVATION AWARENESS WEEK

The Ahalia School of Engineering and Technology joins hands with Energy Management Center, Government of Kerala in spreading awareness among the public, the need for being energy efficient.We see it as our responsibility to educate the youth and curb the wastage of energy in all forms. To actualize this vision, we celebrated 15 - 23 December 2021 as Energy Conservation Awareness Week.

We visited the following schools in Palakkad to meet the students and teachers to seek their support in this regard. Our representative stuck the Energy conservation sticker near all switchboards in the school premises. This sticker reminds the students and staff to switch off the lights/fan/appliances after use. As it is said "little drops make the mighty ocean", this one thoughtful gesture can bring about a positive change in student mindset. It's necessary to catch them young to inculcate these values and habits.







Adi Sankara Vidya Peedam, Nallepilly





Ahalia Public School, Palakkad









Assisi HS School, Kanjikode







Basel Evangelical Mission
Higher Secondary School, Palakkad





Bharathamatha Higher Secondary
School, Chandranagar



GBHSS Chittur



RKMALP School, Kalyanapetta





Sreekrishna High School, Nallepilly



St. Paul's English Medium School, Kannimari



St. Paul's Higher Secondary School, Kozhinjampara





Vijayamatha Convent Higher Secondary School, Chittur



MES HS School,
Olavakkode



PMG HS School,
Palakkad







Sreenarayana Public School,
Elappully







Government Moyan Model
Girls High School, Palakkad



Government Higher Secondary School, Elappully



Sreekrishna Higher Secondary School, Nallepilly

ASET SOCCER LEAGUE (ASL)

The 3rd edition of ASET Soccer League's (ASL 2021-22) the biggest intramural sports festival of ASET kicks off on 21/12/2021. The football league is conducted in the format of the Indian Super League.







CHRISTMAS DAY CELEBRATIONS

Christmas Day is celebrated as the anniversary of the birth of Jesus of Nazareth. Popular customs include exchanging gifts, decorating Christmas trees, attending church, sharing meals with family and friends and, of course, waiting for Santa Claus to arrive. All we want for Christmas is… Carols! The holidays are not only the perfect occasion to spend time with loved ones while sharing gifts and cookies, but we also have the ideal opportunity to sing our hearts out.Ahalia school of Engineering and Technology celebrates the Christmas Carols as a perfect family function every year. On this occasion, our students and all staff members gathered. Sweets and lunch were distributed and shared.











PRESENTATIONS IN THE CONFERENCES,FDP & WEBINAR BY THE FACULTY MEMBERS

Dr. G. Murugananth Professor & Head, Department of EEE, Ahalia School of Engineering and Technology, Palakkad. handled a Webinar Session on “Drafting a Quality Research Article - Means and Methods” organized by the Department of Information Technology, in association with IQAC, Sree Krishna College of Technology Coimbatore on 18-12-2021

PARTICIPATION IN FDPs, WORKSHOPS AND WEBINARS BY THE STAFF MEMBERS

Mr. Dhanesh S. AP - Deapartment of ME, Ahalia School of Engineering and Technology, Palakkad has participated the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 26 July, 2021 to 30 July, 2021.

Dhanesh S, AP - Department of ME, Ahalia School of Engineering and Technology, participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Internet of Things" from 13/09/2021 to 17/09/2021 at J C Bose University of Science and Technology YMCA.

Dhanesh S, AP - Department of ME, Ahalia School of Engineering and Technology, has undergone Innovation Ambassador training (Foundation Level) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

Dhanesh S, AP - Department of ME, Ahalia School of Engineering and Technology, has participated in the KTU sponsored 3day online faculty program on ‘Data Analytics Using R’ organized by the department of Computer science Engineering ,TKM Engineering College, Kollam from 23rd june to 25th june 2021

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OUR PLACEMENTS



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AHALIA HEALTH, HERITAGE & KNOWLEDGE VILLLAGE, PALAKKAD - 678557. PH: 04923-226666



Vol 7/Issue 8

July 2022

ASET NEWS

A Monthly Newsletter of

Ahalia School of Engineering & Technology

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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ASET NEWS

Vol 7/Issue 8, July 2022

VISION

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

IN THIS ISSUE...

Principal's Message	3
Achievements	4
Placements	4
Staff Writeups	5
ASET Activities	10

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ASET NEWS

Vol 7/Issue 8, July 2022

PRINCIPAL'S MESSAGE

GOODBYE TO PLASTIC BAGS!!

Marine researcher Charles Moore discovered the Great Pacific Garbage Patch, a 1.6 million square kilometer floating mass of plastic and trash (2019).



Dr. P. R. Sreemahadevan Pillai
Principal

International Plastic Bag Free Day, a global initiative that aims to eliminate the use of plastic bags, is being celebrated on July 3. Plastic bags may seem like a grocery shopping convenience, but they are also a huge strain on the environment. It can take up to 500 years for plastic bags to disintegrate, so they make up a large portion of what stays in our landfills and pollutes our waterways. For most of our history, single-use products were blasphemous. But through the end of the Industrial Revolution and into the modern era, plastic became a cheap and plentiful resource. Plastic bags are just one perfect example. From birth to ban, the history of the plastic bag has impacted our world. In 1933, polyethylene, the most commonly used plastic, was created by accident at a chemical plant in Northwich, England. While polyethylene had been created in small batches before, this was the first synthesis of the material that was industrially practical, and it was initially used in secret by the British military during World War II. By 1965, the one-piece polyethylene shopping bag was patented by the Swedish company Celloplast. Designed by engineer Sten Gustaf Thulin, the plastic bag quickly began to replace cloth and plastic in Europe. After controlling 80 percent of the bag market in Europe, plastic bags went abroad and were widely introduced to the United States in 1979. Plastic companies began to aggressively market their product as superior to paper and reusable bags. It wasn't until 1997 that sailor and researcher Charles Moore discovered the Great Pacific Garbage Patch, the largest of several gyres in the world's oceans where immense amounts of plastic waste have accumulated, threatening marine life. It was discovered that plastic bags are notorious for killing sea turtles, which mistakenly think they are jellyfish and eat them. Bangladesh became the first country in the world to implement a ban on thin plastic bags in 2002 after it was found that plastic bags played a key role in clogging drainage systems during disastrous flooding. Other countries quickly followed suit, such as South Africa, Rwanda, China, Australia and Italy. International Plastic Bag Free Day looks for safer alternatives to demonstrate that a world without the use of so much plastic is possible. It is part of the Break Free from Plastic Movement, which began in September 2016, and has been joined by nearly 1,500 different organizations. The movement is looking for solutions to the plastic pollution crisis, to make the planet safer for humans, the environment and wildlife. China, Israel, South Africa, Netherlands, Morocco, Kenya, Rwanda, Mauritania, Sri Lanka, Papua New Guinea, Vanuatu, Albania and Georgia have also implemented plastic bag bans. India's efforts to ban certain single-use plastics began in 2009, when the state of Himachal Pradesh in northern India became the first to ban plastic shopping bags. Delhi, India's capital city, adopted a more expansive ban that included bags, cutlery, cups, and plates in 2017. One reason for the abundance of plastic bags is economics. A standard plastic grocery bag costs very meager to produce, compared to a thick paper bag. Disposable plastic bags pollute the rivers, oceans, land and even cause harm to marine life. It is important to control the plastic pollution in the world; otherwise, we are staring at an environmental disaster. The best way to curb the use of single-use plastic globally is to use cloth bags, reusable bags, or paper bags. Plastic is hazardous to the health of animals on land and in the seas as it chokes their airways. The amount of plastic bags produced every year is extremely high, almost 5 trillion units every year. About 3% of the total plastics are recycled, but the percentage is meager compared to the usage. Like marine litter, it is also believed that plastics can cause cancers in humans as they have chemical additives in them. International Plastic Bag Free Day first started in the year 2008; earlier it was marked only in Catalonia but a year later was announced by the European Union as well. This day was made to research more about the issue with plastics and how to decompose it easily and comfortably. On this day, we should recycle and reuse every plastic product or use reusable plastic containers that we already have and stop purchasing any already-packaged food as it is harmful to health. Furthermore, you can get fresher produce at a much lower price. This day is to create awareness through social media, television, and radio - this can help reach out to a lot of people. People also volunteer to clean a river, a beach or their communities as it helps keep our environment clean and safe for all. Stop or reduce purchasing plastic water bottles; we can comfortably carry a bottle with us when we go out of our houses. Skip the plastic straws; use the paper ones that are now readily available.

ACHIEVEMENTS

THE ASET ACADEMIC TOPPERS IN THE 2nd SEMESTER EXAM 2018 - 2022



Vishnu Ram B.
CSE (SGPA 9.86)



Amritha M. H.
ECE (SGPA 9.60)



Akshara R.
CE (SGPA 9.48)



Sreevalsan K. R.
EEE (SGPA 9.14)



Aswin Krishna K.
ME (SGPA 7.55)

PLACEMENTS

ALUMNI JOINED IN AHALIA GROUP



Bhadra Mahesh
B.Tech. EEE (2017-21)
Software Developer

STUDENTS PLACED IN VARIOUS COMPANIES



Vishnu M.
B.Tech. CSE (2018-22)

Placed at Nest Digital as Software Engineer Trainee.



Varsha V.
B.Tech. CE (2018 - 22)



Priya V. P.
B.Tech. CE (2018 - 22)

Placed at Federal Bank.

INCORPOREAL MIRACLE WORKERS



Anand Haridas
Asst Prof. - CSE

This literary work is a humble attempt at stitching together various occult incidents rather miracles from around the globe that had been carried out at various time instances by the various saints and saintly figures at behest of the almighty in order to aid mankind in their speedy eternal return.

Dead child wakes up alive:
One day a child was found drowned in the pool. The parents rushed the inert body of the child to a nearby doctor and after a thorough check up; doctor declared the child was dead. The inconsolable parents then rushed to the Saintly- Nityananda Avadhutha of Ganeshpuri, with the body of the child in the father's arms. They knocked at the door of Saint Nityananda Avadhutha. After prolonged knocking he finally came out. The grieving parents said, "Our child is dead." He said, "No child dies. Place him here in my room and go and sleep." After a half hour Nityananda Avadhutha of Ganeshpuri came back to the grieving parents and said, "Come and get your child. He has slept long enough." The child was alive.

Dead man speaks:
In Lisbon, the city where St. Anthony was born, there were two people who hated each other to the core. One evening the son of one of them met the son from the rival family, which was living close to Saint. Anthony's parents. Filled with hatred, and seeing that no one else was around, he stabbed the other young man to death. He then buried the corpse in the garden of Anthony's father. Martin, Anthony's father, tried to prove his innocence, but the grisly evidence found in the family garden was enough to convict the poor man of the murder. Just when things were at their worst, God revealed to Anthony, who was in Padua, the plight of his father. Immediately, the Saint through divine intervention reached the court room and asked that the body of the murdered man be produced immediately. Anthony approached the corpse and, in a firm voice, asked the man to tell who had killed him. To the amazement of all, the corpse sat up and clearly said the name of the murderer and attested the innocence of Anthony's father, who was freed at once. The revived man then turned to Anthony and asked absolution from his sins, before dying again.

Severed eye reinstated:
The Sufi mystic- Sheikh Farid used to arrange hot water for his master's ablutions. On a very wet and cold, stormy night, he realized he had no way to light a fire, as everything around was either cold and humid or wet. So he left the sanctuary in search of fire. He kept walking through the dark rainy night, and had become quite wet and started to shiver, but he did not give up his search. Finally, he perceived a light at a distance and he started walking towards it. He finally arrived at the door of building. He knocked on it and a voice asked who it was. After he revealed his name, a person answered the door and asked why he had come there. Sheikh Farid answered, that he was led there by light of the lamp, and he was looking for a way to light a fire, to heat water for his master's ablutions. The person demanded money in return of service. As Sheikh Farid didn't have money with him he offered one of his 'eyeballs' as the payment. He arrived back at the sanctuary and performed his duties, as usual. In the morning, when his master was engaging an audience with spiritual discourse, Sheikh Farid came in with a bandage covering his eye that had been bleeding. His master asked him why he had tied a bandage to his eye. Sheikh Farid replied that his eye was infected. His master smiled at him and said, "You are right, open your bandage now". When Sheikh Farid opened his bandage, he rubbed his eye and opened it and found that his eyeball was back. His master then said, "This new eyeball is a little smaller than the one the Lord gave you. I could not compete with Him, so I got you a smaller one." It is said that whoever ascends to the spiritual throne of Saint -Sheikh Farid, from then on, has one eye that is smaller than the other...

(Courtesy- multiple sources on miracles)

COLUMN: THE ENGLISH LANGUAGE

Nikhat Zareen, the Indian pugilist, breaks world records.



Abhijit V.
Asst. Prof. - ECE
&
T&P Officer

Who is a pugilist?
Meaning: A professional boxer or a fighter.

Example Sentences: The performance of Indian pugilists was appreciated across the globe.

The singer is still waiting for his day in the sun.
Meaning: When we say someone's day in the sun, it means that the time has come for him to be in the limelight. In other words, the time when he shines and is appreciated. The duration of popularity.

Example Sentences:
It was his day in the sun when he scored a double century in his first match

Play possum
Meaning: (1) Pretend to be asleep or unconscious (as a possum does to avoid attack), (2) feign ignorance.



Etymology: Opossums are Australasian marsupials that pretend to be dead when they are threatened. They literally mean 'white animals'.

Example Sentences: Why do our politicians play possum when volunteers of their parties are killing themselves?

What does the word 'intangible' mean? How is it used in various contexts?
Meaning:Tangibles are the things that could be touched or perceptible by touch. Intangible things cannot be touched or felt by touch.
Synonyms: impalpable

Etymology: In Latin tangere means 'touch'. All words that contain 'tangere' are associated with the feel of touch. The word tangible originated from Latin. Tangent, in mathematics, also has a similar origin.

Usage: The atmosphere is completely intangible as is the energy.

Lambasts
Meaning: Criticize (someone or something) harshly or scold someone or some action.

Etymology: Origin could be traced to Latin where lam means to beat or whip. To thrash someone harshly.

Usage: If you lambast someone, you criticize them severely, usually in public.

Example Sentences: The Russian President was lambasted by the US for waging war against Ukraine.

Antiphrasis
Meaning: Similar to sarcasm. Opposite of what the phrase means. Ironic or humorous use of words in senses opposite to the generally accepted meanings.

Etymology: Greek, "anti' means opposite and the 'Phrase'.

Example Sentences: How much hard work have you done to fail this examination? Did you understand that what I told you is an antiphrasis?

Eccedentesiast
Meaning: A person who fakes a smile.
When I searched for "Eccedentesiast" in the Merriam-Webster Dictionary website I found that "The word you've entered isn't in the dictionary. Click on a spelling suggestion below or try again" using the search bar above.
But there exists a word and it means someone who fakes a smile.

Example Sentences: Although the wound was extremely painful, I didn't show it. I was an eccedentesiast at that moment.

What is the difference between inquiry and enquiry?

Readers are invited to email their answers or to send their queries and new words to tandp.aset@ahalia.ac.in.

SHUKRAYAAN MISSION OF ISRO



Nithyasree S.
S4 - ECE



Amritha M. H
S4 - ECE

Humans have been undeniably fascinated with what lies beyond the earth's thin atmosphere. Indians are no exception to this. But Indian space dreams were deemed impossible right from the start. It was an audacious idea, especially a farsighted one which was very expensive and needed a vast amount of resources. There were also questions about why India should embark on such a risky experiment when the benefits were not clear to most people at that time. But, thanks to a few venturous gentlemen, we embarked on our own space adventure. In the 1950s and 1960s, being the closest neighbour of earth and cheaper to get to, for some scientists, Venus seemed like an attractive planet to explore. Also, Venus's atmosphere looked much similar to that of earth. But a series of USSR landers and NASA orbiters launched through the late 1980s told a different story. They found the surface of Venus is more than 450 °C, and its atmospheric pressure is almost 100 times that of Earth's. As a result of these discoveries, scientists eventually gave up on Venus. But then the European Space Agency's 2005



Venus Express orbiter found Venus's chemistry to be more complex than previously thought. Japan's 2010 Akatsuki orbiter revealed, previously unknown atmospheric structure and dynamics. As per recent data, Venus has more nitrogen in parts of its atmosphere than models predicted; and a group announced that it found phosphine—a possible sign of life—in Venus's clouds, although researchers are debating those results. This indicates Venus has more interesting surprises instored for us. So, scientists and space agencies are once again into the Venus mission.

After Chandrayaan and Mangalyaan, ISRO is now planning to launch Shukrayaan-I, which will be the country's first orbiter mission to the hottest planet-Venus. The spacecraft to orbit Venus will study its surface, the presence of the life-friendly element- phosphine in its atmosphere and will also unravel the mysteries under the sulphuric acid clouds enveloping it. The December 2024 window is being targeted for its launch with orbital maneuvers planned for the following year when earth and Venus would be so aligned that the spacecraft could be put in the neighbouring planet's orbit using a minimum amount of propellant. The next similar window will be available in 2031 only.



The inaugural session of the one-day national meet on Venus science.
Credit: Department of space ISRO, Government of India

ISRO chairman Somnath has warned against repeating experiments conducted by previous missions to Venus and focuses on unique high-impact outcomes .“The goal is to review that unique additional knowledge observation can be done and see that we are not repeating what has already been done. Repeating some of them is not a crime but if we bring uniqueness, it will have an impact globally,” he said.

Venus- often called Earths twin because of its similar size and density, is one of the four inner terrestrial planets. It has a thick, toxic atmosphere filled with carbon dioxide and yellowish clouds of sulphuric acid that trap heat, causing a runaway greenhouse effect. The surface is a rusty colour and it's peppered with intensely crunched mountains and thousands of large volcanoes. One big difference from Earth is that, Venus rotates on its axis backward, compared

to most of the other planets in the solar system. Also, it has crushing air pressure at its surface, more than 90 times that of earth. The orbiter will be put in a 500×60,000 km orbit and will be able to lower (aero brake) into a 300km circular orbit in 6-8 months.

The experiments planned in the mission include an investigation of the surface processes and shallow sub-surface stratigraphy(like active volcanic hotspots & lava flows), studying the structure, composition and dynamics of the atmosphere. Also analyses solar wind interaction with Venusian Ionosphere. It will give an insight into the evolution of Earth-like planets and the atmospheric conditions. It will also aim to provide a futuristic vision of how climate change can have a massive impact on a planet. The thick atmosphere and surface activity on Venus is a difficult area to maneuver. To have a deeper understanding, high-resolution synthetic aperture radar is used to examine the Venusian surface, which is covered by dense clouds that make it impossible to view the planet's surface. The mission will also bring an instrument to examine the planet's atmosphere in infrared, ultraviolet and submillimetre wavelengths. International instruments entailed are Venus Infrared Atmospheric Gases Linker (VIRAL) which is a Collaboration between LATMOS, France and Russian federal space agency Roscosmos and IVOLGA- A laser heterodyne NIR spectrometer to study the structure and dynamics of the Venusian mesosphere. Another instrument will be a Swedish-Indian collaboration known as the Venusian Neutrals Analyser, which will examine how charged particles from the sun interact with the atmosphere of Venus. The satellite is most likely to be launched on GSLV Mk II, while it might also make its journey on an even more powerful GSLV Mk III to enable it to carry more instruments or fuel.

Shukrayaan-I will give a big boost to India's aerospace ecosystem. Technological spinoffs are inevitable for any interplanetary mission and India's Venus mission is likely to put new horizons within reach of the country's aerospace start-ups. Technologies powering Shukrayaan will usher in new opportunities for India's aerospace sector to come into its own. ISRO has already opened its doors to private players to participate actively in the space sector and this mega project would be an ideal platform to commercialise ground operations such as mission support and satellite broadband operations.

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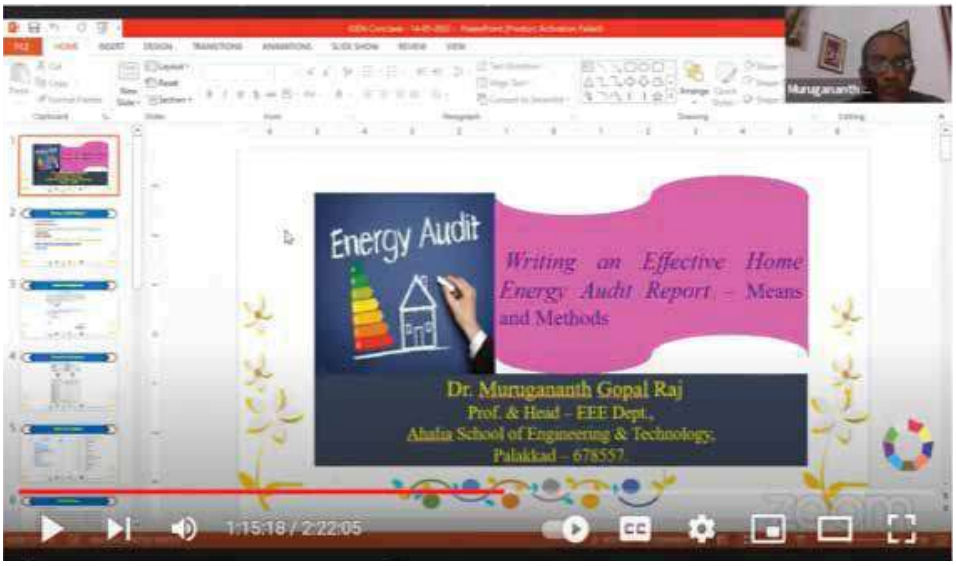
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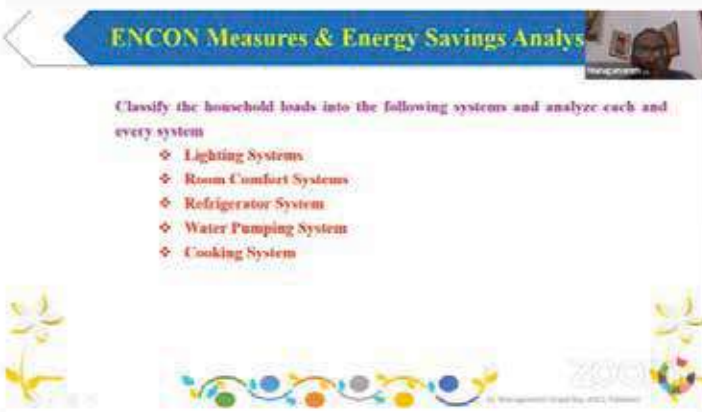
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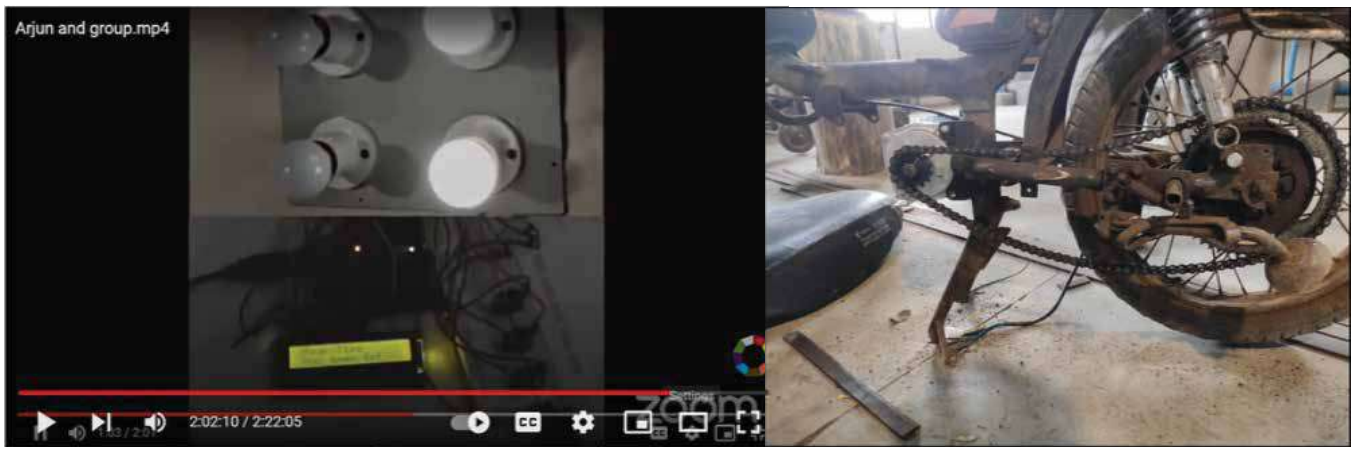
Green 9 ENSAV club of Ahalia School of Engineering and Technology, participated in the Second International Conclave SDG 71 organized by the Institute of Green Engineer's from 13 to 16 May 2022, a 20 hours programme for four days.

ASET Green9 ENSAV club presented the events organized by the club on 14th May 7 pm to 8pm.The programme begin with a beautiful instrumental prayer song from Pramod Krishna P of 3rd year EEE ASET. Followed by a Welcome address by Jamsheer of 4th year EEE. Dr Murugananth Gopal Raj, Professor & HOD EEE, ASET, presented a session on "Writing an effective home energy audit report – Means and Methods". Following the presentation, Mr. Arjun of 2nd Year EEE, reported the activities conducted by ASET EnSAV club for the past years 2020-21 & 2021-22. A short film based on energy conservation done by students of 3rd year EEE was presented in the conclave.



Followed by a beautiful violin presentation from Pranav of 1st year EEE. Then it was the time for presentation of various energy conservation activities and projects done by EnSAV members and student's of 4th year EEE. Session on Wick farming, Vis-TEK and SDG 7and 13 based projects were also presented. Then future endeavours were presented by Adarsha of first year EEE. Ms Swathy MV,AP EEE ASET, proposed the vote of thanks. Vaishnavi and Gautham M of 3rd year EEE done the MOC. The event was coordinated by Mr. A. Manickavasagam, AP, EEE, ASET.





VISIT TO AHALIA SOLAR AND WIND POWER PLANTS

58 students and 2 Staff of Government Polytechnic College, Palakkad visited ASET and Ahalia Alternate Energy Pvt. Ltd. on 27 May 2022.ASET Alumni, Mr. Amrithraj and Mr. Hari, engineers at Ahalia Alternate Energy Pv. Ltd., briefed the students about the functioning of Ahalia Solar and Wind power plants, followed by a field tour. Dr. P. R. Sreemahadevan Pillai, Principal, ASET, addressed the students and motivated them. Prof. Lakshmi Suresh, Nodal Officer, IEDC, ASET, invited the students for IDEATE TO INNOVATE program scheduled on 03 June 2022. Ms. Bindu Valoor, Manager-Academics Outreach, coordinated the entire program.









MEETING WITH ELAPPULLY PANCHAYAT

Ahalia School of Engineering and Technology is joining hands with Elappully Panchayat in Panchayat development activities. A meeting of representatives of Elappully Panchayat and Ahalia School of Engineering and Technology was held at Elappully Panchayat Community Hall at 2:30 p.m. on 30 May 2022. Shri. Rameshan, standing committee member welcomed the participants. Smt. Revathi Babu, Panchayat President presided over the meeting. Sunil Kumar, Vice President, Elappully Panchayat, felicitated both the parties for entering into this association. Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology, Palakkad & Director, Ahalia Group Academic Institutions suggested offering technical support for the proposed development activities in water conservation, agriculture, healthcare, education etc. Panchayat can use the technical excellence of the faculty and students of Ahalia School of Engineering and Technology. Dr Sudhodanan, State Secretary, OISCA, proposed to organise eye camps in schools. Shri. Joseph, Water Aid India, said a survey of open wells, borewells, ponds etc. should be done to identify the water availability in the Panchayat. The database currently available is many years old, hence not reliable.



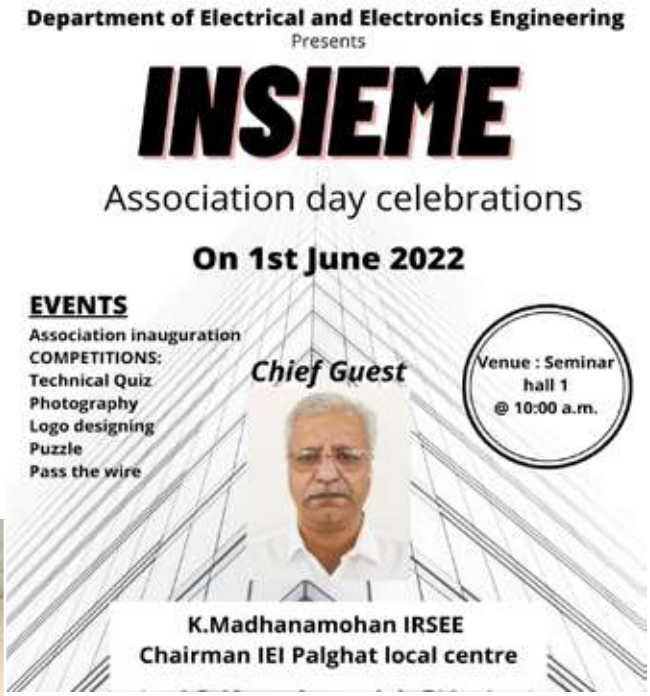


Ahalia School of Engineering and Technology will support in starting a Facebook page for Elappully Panchayat and also maintain it. Prof. Abhijit Menon is entrusted with the development of a website and FB page for better information dissemination in the Panchayat. The new rooms being constructed in GLPS, Pallatheri hasn't received sanctions for electrical wiring and plumbing work. Dr. Murugananth, HoD EEE will inspect and help for electrical wiring and Dept. of Mechanical Engineering will help for the plumbing work. This will be a hands on experience for students too. On 15 June ASET will support the Agriculture department in organising a training program on Paddy farming for the farmers in the Panchayat. The venue can be Ahalia Campus or Elappully Panchayat community hall. Ms. Bindu Valoor will liaise with the Panchayat officials to organise this training. Prof. Preeja, Prof. Prabha and Prof. Vignesh will prepare the survey form for comprehensive data collection in the Panchayat.

INSIEME - EEE ASSOCIATION DAY CELEBRATIONS

Department of Electrical and Electronics Engineering has conducted association day "INSIEME" on 1st June 2022.The session started with the prayer and the event was inaugurated by K Madhanmohan IRSEE Chairman IEI Palakkad local Centre in the presence of our Principal Dr P Mahadevan Pillai and our EEE department Hod Dr Murugananth Gopalraj.
Various technical and non-technical events were conducted as a part of the association day which included technical and non technical quiz, fun events, games and a lot more. The program was aimed to bring unity and compassion among the members of the department.

The event was conducted by the students of the Department of EEE with the help of our Hod and department teachers.















IDEATE TO INNOVATE '22

Innovation and Entrepreneurship Development Centre of ASET in association with Institution's Innovation Council conducted an event Ideate to Innovate'22 on 3/6/2022.The event comprises of 3 categories.

1.Idea Pitching competition :8 teams presented their innovative ideas. The students explained their idea in 10 min and 5 minutes were reserved for questions and answers from the panel of judges as well as the audience. It was great to see how students shared their unique and innovative ideas related to business. Teams were judged on the basis of Novelty, Originality, Feasibility and Presentation of their idea. .2 teams from external college and the rest of them were internal teams. Total of 35 participants attended the program.

2.Shrishti'22-Project Expo:12 participants showcased their projects in front of a panel of eminent judges.

3.Technical Workshop on Robotics: A workshop on "Industry Applications of Robotics" was conducted and led by Mr. Niranjan SDR, Founder & CEO of Mukkudal Robotics Ltd., Coimbatore. Hands-on training of EV3 Lego Robot was given.Students were encouraged to try their hand at assembling and modeling of Robots.31 participants attended the same.



ASET PREMIER LEAGUE SEASON 3

The Students of ASET had conducted the 'ASET PREMIER LEAGUE SEASON 3- (APL)' from 2022 April 21st to June 4th at ASET Ground. The APL Season 3 matches are coordinated by Mr. Bibin. B, Assistant Professor in physical education. 8 teams participated in this tournament. The first round of the tournament was played in a round-robin format. Team Professors XI was the League topper with 14 points. Semifinal and Final matches are played in Knockout format. The Final was conducted on 2022 June 4 in ASET Ground. Principal Dr. P. R. Sreemahadevan Pillai was inaugurated and witnessed the final match. Team RISING STARS were the Winners and Team KINGSMEN XI are the Runners up of the tournament. The principal distributed the winner's trophies and individual medals to the Participants. AMRUTHESH from S6 CIVIL was selected as 'PLAYER OF THE TOURNAMENT' and BEST BOWLER of the tournament with most wickets. NISHANTH from S8 ME was selected as 'BEST BATTER' of the tournament. SANGAMESHWAR from S2 CSE was the 'EMERGING PLAYER' of the tournament. Team THUNDERS are selected for the 'FAIR PLAY AWARD'. More than 115 students participated in the tournament. A great deal of enthusiasm was seen in the students and faculty members.





ENVIRONMENT DAY

World Environment Day Celebration by Ahalia School of Engineering and Technology at the Kerala Armed Police Battalion 2 camp at Palakkad. Grateful to Shri. V.K. Sreekandan MP, Shri. A. Prabhakaran MLA, Shmt. Mrunmayi Joshi IAS, District Collector, Shri. Ajit Kumar IPS, Commandant, Shmt. Bindu P.R., Panchayat President, the Police Officials, hundreds of students, teachers, OISCA volunteers, Government officials, and voluntary workers, who made the program colorful and did the planting of 800 tree saplings



ONLY ONE EARTH

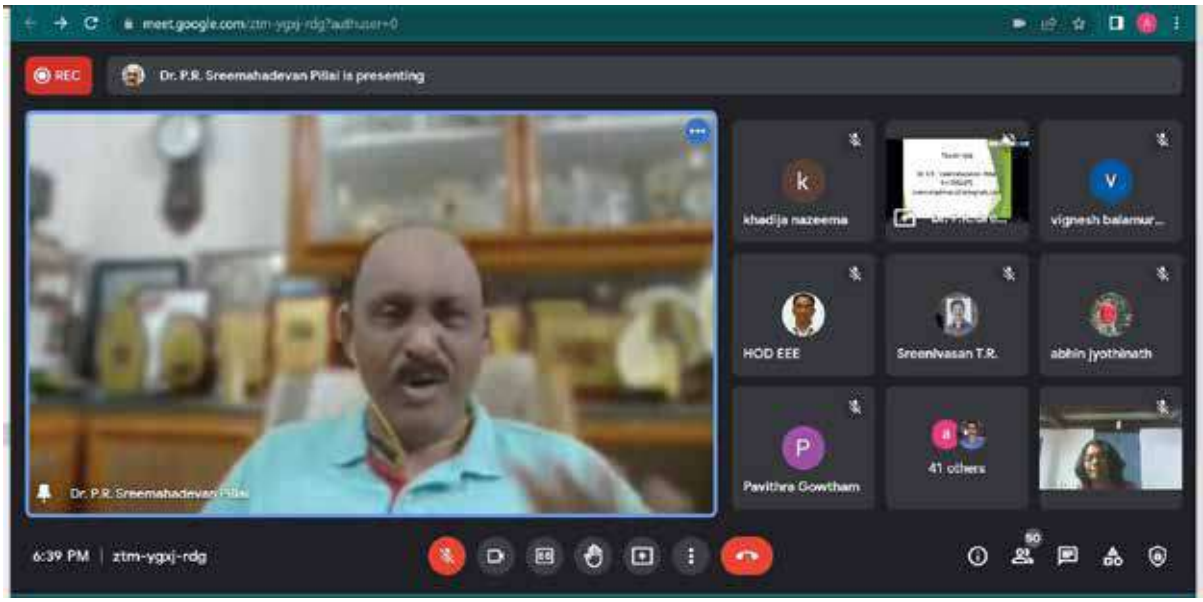
Tech Talk Series 006 - Only One Earth was organized in association with Kerala Armed Police II Battalion, Muttikulangara, Student Police Cadet, IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 05 June 2022.



Dr. P. R. Sreemahadevan Pillai, Principal, ASET was the resource person. The session dealt with various facts about the formation of the earth and the effects of climate change. The resource person shared some useful tips to save the earth from destruction.

60 plus participants attended the webinar.

This event was coordinated by Ms. Bindu Valoor, Manager-Academics Outreach, Ahalia Group, Palakkad.



WEBINAR ON CAMPUS PLACEMENT & HIGHER STUDIES THROUGH GATE

Ahalia School of Engineering and Technology organised a Webinar in association with Unacademy Learning App on June 11th,2022 at 5 PM on the topic "Campus Placements and Higher Studies through GATE". The session was led by Dr.G Santhosh Kumar (Advisory Member of UPSC examination reforms). 28 students actively participated in the webinar. The program was coordinated by Mr. Roshan Sanu.Y (AP/CS).



SESSION ON 'INDIA AND THE WORLD – BUILDING A GREAT NATION'

Shri. Mohan Murti, Managing Director, Europe, Reliance Industries Ltd., addressed the students of Ahalia School of Engineering and Technology and Ahalia School of Management on How to Build India into a Great Nation, on 14 June 2022. He gave an insight on how Indians are perceived by other nationalities and what are the opportunities and challenges that lie ahead of us in the global arena.

Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology & Director, Ahalia Group Academic Institutions, offered the presidential address. Dr. Krishna Kumar Kishor, Vice Principal, Ahalia School of Engineering and Technology & Executive Director, Ahalia Group Academic Institut,ions and Dr. Vijayachandran Pillai, Principal & Director, Ahalia School of Management offered the felicitation address. Ms. Arya R. Krishna, S6 ECE, ASET, welcomed the august gathering. Ms. Farzana Noushad, S2 MBA, ASM introduced the speaker. Ms Bindu Valoor, Manager-Academics Outreach, proposed the vote of thanks. Ms. Soumya Sree, S6 CE, ASET anchored the event.





CIVIL ASSOCIATION DAY

Association Day Celebration of Civil Engineering Department was inaugurated by Mr.Shabir Koodathil(CEO,SteelMax Rolling Mills) and Presided by Dr. P.R Sreemahadevan Pillai (Principal-ASET) . Thereafter a talk on Entrepreneurship was delivered by Mr.Shabir Koodathil.



FAREWELL DAY

An evening dedicated to rejuvenating all the memories of college life. A light-hearted event, which would flood the memories from the past and allow you to relive them all over again and much more to make the evening worth cherishing. Farewell is used to express good wishes on parting. The colourful memories of the days spent by the students were gathered to share again before they were cast away from the campus of Ahalia School of Engineering and Technology to start a promising career. The program starts with Prayer by Ms. Soumya M Assistant Professor - CSE, ASET. The welcome address was given by Dr. B. Balamurugan, HoD ECE Department. The Presidential Address was given by Dr. P R Sreemahadevan Pillai Principal, ASET, Dr. Krishna Kumar Kishor, Vice-principal, and Prof. Prakash give the felicitation address. Students and Staff shared their experiences spent on the campus and also gave a quick review of the memories they cherish from the campus. As a token of appreciation, a memento was also distributed to all the toppers of the departments. Miss Kavya Mukundan of S8 ECE Proposed the vote of thanks. The program was successfully organized by the College students Council.



OUTGOING STUDENTS OF ASET (2018 - 2022 BATCH)

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Civil Engineering
Batch : 2018 - 2022



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Computer Science & Engineering
Batch : 2018 - 2022



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Electronics & Communication Engineering
Batch : 2018 - 2022



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Electrical & Electronics Engineering
Batch : 2018 - 2022



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Mechanical Engineering
Batch : 2018 - 2022



ASET wishes All The Very Best and a bright Future to the out going students..!

EYE CHECKUP CAMP

In association with Elappully Grama Panchayat, Ahalia School of Engineering and Technology & Ahalia Foundation Eye Hospital is organising Free Eye Check Up for the students of schools in Elappully Panchayat.

Two years of online education has triggered some health issues in children. This drive is dedicated to identify vision related ailments in students, so medical care can be offered at the earliest.

The inauguration of the event was held in Sree Narayana Public School, Elappully on 20 June 2022 at 9:30 a.m. The vision of 1200 students and over 100 teachers of Sree Narayana Public School, Elappully will be checked during this week.

In the coming days, this activity will be extended to other schools in Elappully Panchayat.

Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology, Palakkad, & Director, Ahalia Group Academic Institutions, India, inaugurated the program. Shri. Balan C., President, SNES, presided over the event, Smt. Rajakumari K., Education Standing Committee Chairman, Elappully Panchayat and Dr. Sudhodanan, State Secretary, OISCA, & Academic Director, SNPS offered felicitation.Shri. Pradeesh Sundaram, Assistant Manager, Ahalia Foundation Eye Hospital proposed the vote of thanks.

Smt. Revathi Babu K., President, Elappully Grama Panchayat,
Shri Bhavadas, Vice President, SNES, Shri. Vasudevan, Treasurer, SNES, Shri. Babu, Vice President, OISCA Elappully Chapter, Prof. Abhijit Menon, Training and Placement Officer, Ahalia School of Engineering and Technology, Shri. Arun, Marketing Executive, Ahalia Foundation Eye Hospital graced the occasion.
The event was coordinated by Ms. Bindu Valoor, Manager-Academics Outreach, Ahalia Group, Palakkad.



INTERNATIONAL YOGA DAY CELEBRATION 2022

International Yoga Day was celebrated at Ahalia School of Engineering and Technology on 21st June 2022 from 10 am to 12 pm in Association with the Physical Education Department and National Service Scheme Unit of ASET at Seminar Hall 1. The program started with Prayer. Ms. Mithra PC delivered the Welcome Address.Dr.P.R Sreemahadevan Pillai, Principal ASET delivered the Presidential Address. After that the celebration was Inaugurated by Shri. Vipin Chandran, Yogacharya, Sivanandasramam. He also led a session on Yoga which contained deep insights about the application of Yoga in the human body followed by small breathing exercises which relaxes the human body and mind. The program ended with Vote of Thanks by Ms. Naeema Nazeer. Second year students of Ahalia School of Engineering and Technology participated in the program.



RUDHIRAM - BLOOD DONATION CAMP

NSS Unit of Ahalia School of Engineering and Technology organised a Blood Donation Camp in association with District Blood Bank, Palakkad on 21st June 2022. The camp started at 9:30 am and ended at 1:00 PM. Students and staff of ASET donated their blood in the camp. A total of 44 units of Blood was donated in the camp.



CHOICES AFTER SSLC

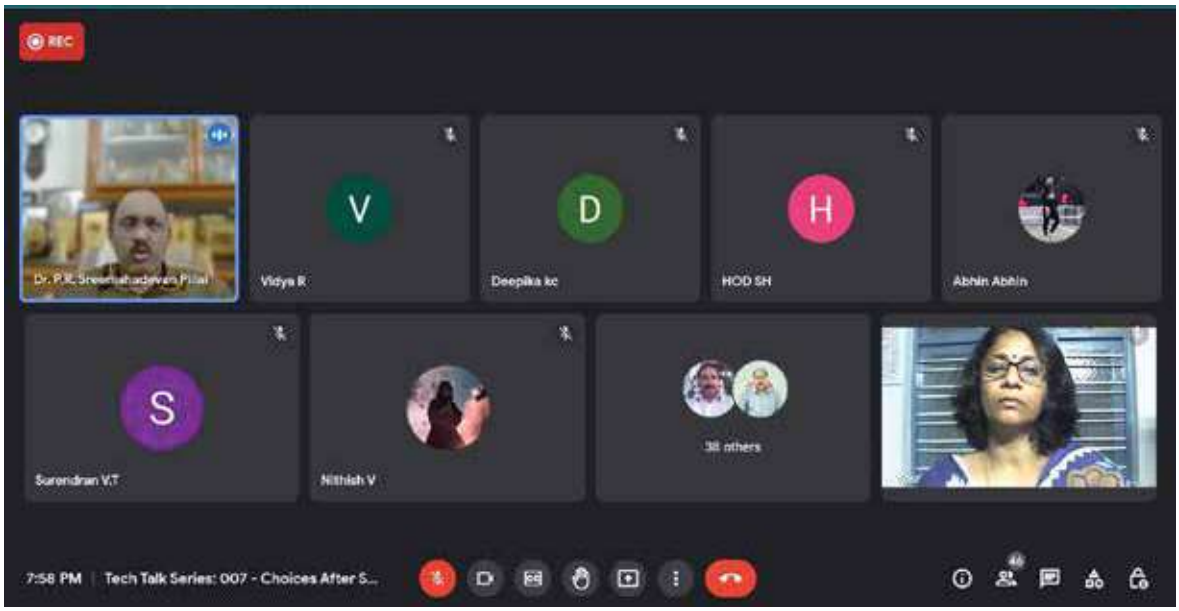
Ahalia School of Engineering and Technology organised an interactive session on Choices after SSLC in association with IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 22 June 2022 at 7 p.m.

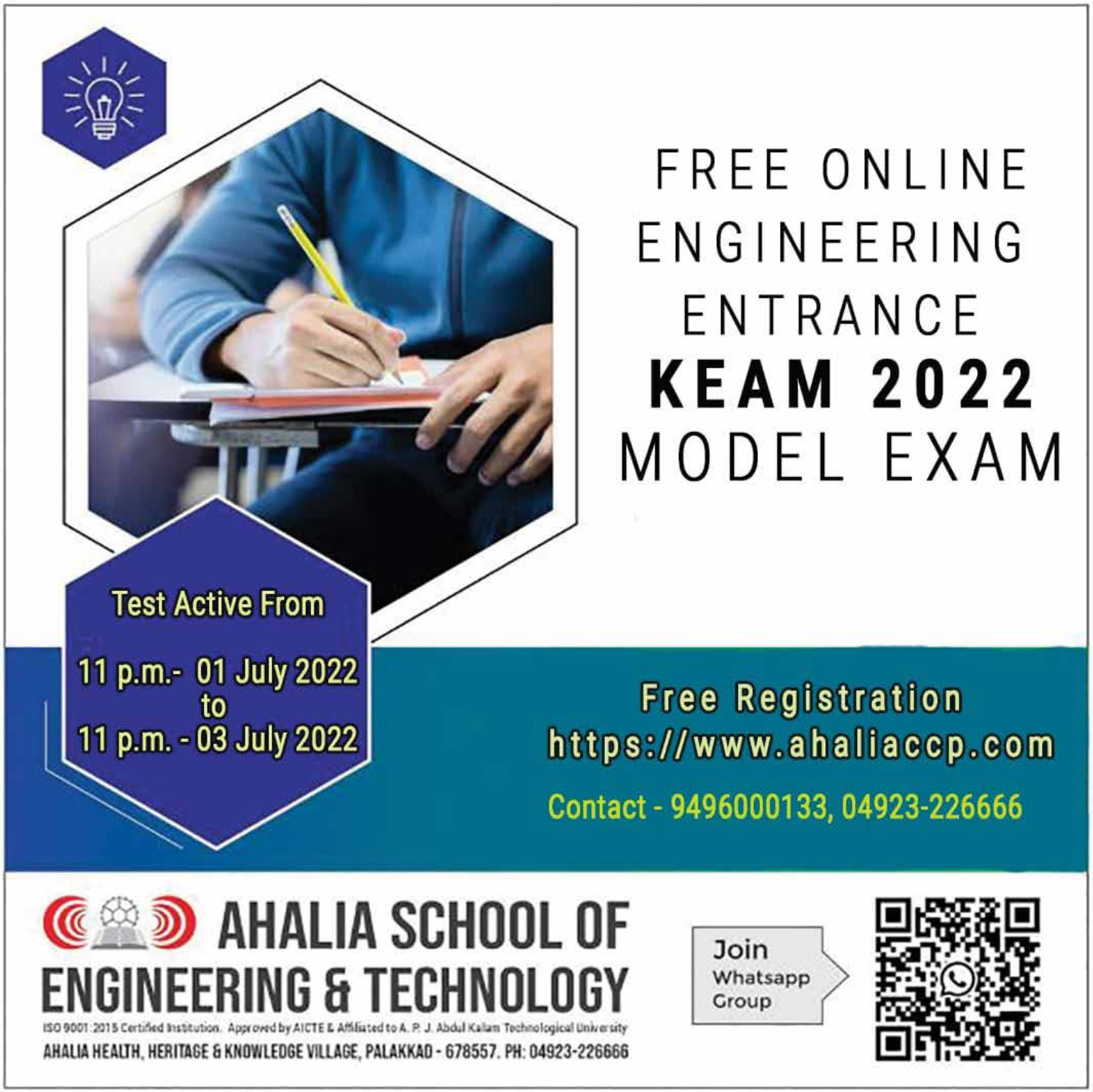


The course a student chooses after tenth standard is crucial. Proper guidance at the right time can help them opt for a better course that align with their interest and also have huge career prospects. This was one such session where the participants could get their queries answered by a learned resource person.

The resource person was Dr. P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology & Director, Ahalia Group Academic Institutions, India.

Sixth semester students of Ahalia School of Engineering and Technology Ms. Bhavya and Ms. Deepika offered welcome address and vote of thanks respectively. 75 plus participants attended the session. Ms. Bindu Valoor, Manager-Academics Outreach, Ahalia Group, Palakkad, coordinated the event.





FREE ONLINE ENGINEERING ENTRANCE KEAM MODEL EXAM 2022.

Ahalia School of Engineering and Technology is conducting free online KEAM model exam for engineering entrance aspirants. (Slots on 01/02/03 July 2022)

Register for the exam now @ *https://ahaliaccp.com/signup*

For more details contact:
https://wa.link/r54ppc or visit *https://www.ahaliaccp.com/*.

Cell: 9496000133

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Management & Staff of Ahalia School of Engineering and Technology

Congratulates all students of B.Tech (2018-2022) *for being offered multiple placements*

Congratulations

B.Tech

(2018 - 2022)

100% interested students offered placements



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Vol 6 Issue 7
July 2021

ASET NEWS

A Monthly Newsletter of
Ahalia School of Engineering & Technology

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Vision

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

Mission

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.
To promote research and consultancy for institution development and contribution to the society

PRINCIPAL'S MESSAGE

World Population Day 2021



Dr. P. R. Sreemahadevan Pillai
Principal

World Population Day is an annual event, observed on July 11 every year, which seeks to raise awareness of global population issues. This year's World Population Day is the twenty-seventh to be observed, with the theme being COVID-19 and Beyond: A Spotlight on Uganda's Adolescent Reproductive Health. World Population Day was established by the Governing Council of the United Nations Development Programme in 1989. It was inspired by the public interest in Five Billion Day on July 11, 1987, the date on which the world's population reached five billion. World Population Day aims to increase people's awareness on various population issues such as the importance of family planning, gender equality, poverty, maternal health and human rights.

The world population increases by 100 million approximately every 14 months. The world population reached 7,400,000,000 on February 6, 2016; 7,500,000,000 on April 24, 2017 and 7,700,000,000 in 2019. It is expected to grow to around 8.5 billion in 2030, 9.7 billion in 2050, and 10.9 billion in 2100. In this second year of COVID-19, we are suspended in an in-between state, where parts of the world are emerging from the deep recesses of the pandemic, while others are locked in battle with the corona virus as access to vaccines remain a distant, deadly reality. The pandemic has compromised health care systems, particularly in the area of sexual and reproductive health. It also exposed and exacerbated gender-based inequities: gender-based violence increased under lockdown, as did the risk of child marriage and female genital mutilation as programmes to abolish the harmful practices were disrupted. Significant numbers of women left the labour force – their often low-paying jobs were eliminated or care giving responsibilities for children learning remotely or for home bound older people increased – destabilizing their finances, not just for now but in the long run. Against this backdrop, many countries are expressing growing concern over changing fertility rates. Historically, alarmism over fertility rates has led to abrogations of human rights. United Nations Fund for Population Activities (UNFPA), now re-christened as United Nations Population Fund, advises against reactionary policy responses, which can be extremely harmful if they violate rights, health and choices. The agency emphasizes that women must be empowered educationally, economically and politically to exercise choice over their bodies and fertility.

The recent past has seen enormous changes in fertility rates and life expectancy. In the early 1970s, women had on average 4.5 children each; by 2015, total fertility for the world had fallen to below 2.5 children per woman. Meanwhile, average global lifespans have risen, from 64.6 years in the early 1990s to 72.6 years in 2019. In addition, the world is seeing high levels of urbanization and accelerating migration. 2007 was the first year in which more people lived in urban areas than in rural areas, and by 2050 about 66 per cent of the world population will be living in cities. These mega trends affect economic development, employment, income distribution, poverty and social protections. They also affect efforts to ensure universal access to health care, education, housing, sanitation, water, food and energy. To more sustainably address the needs of individuals, policymakers must understand how many people are living on the planet, where they are, how old they are, and how many people will come after them.

Despite constitutional guarantees of gender equality in many countries, worldwide, on an average, women enjoy just 75% of the legal rights of men. Quantitative surveys suggest that between 4% - 29% of women who use contraception do so without their husbands' or partners' knowledge. Only 55% of women have the power to make their own decisions. An estimated 58% of female victims of murder were killed by an intimate partner or member of their own family, amounting to 137 women every day. This has

International days and weeks are occasions to educate the public on issues of concern, to mobilize political will and resources to address global problems, and to celebrate and reinforce achievements of humanity. The existence of international days pre-dates the establishment of the United Nations, but the UN has embraced them as a powerful advocacy tool. The pandemic has wreaked a devastating toll on this generation. We need a joint programme between UNFPA and other United Nations agencies and civil society stakeholders to improve health care and social services. It is high time to address the population dynamics and its impact on society.

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CONGRATULATIONS

The Management, Principal, Staff and Students of ASET congratulate the ASET toppers in the University 2nd & 7th Semester examination.

ASET TOPPERS: 2019 - 23 (2nd Semester)


Aswathi. S
CE


Sabarish. R
CSE


Vaishnavi V.
EEE


Rahil Roshan
ME


Arya R Krishna
ECE

ASET TOPPERS: 2017 - 21 (7th Semester)


Rafseena M. K.
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CSE


Harisankar T.
ME


Ajees
EEE

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Google data garage is a skill training platform in the digital world by Google. It deals with data processing and tools to make the business successful, interview skills and career growth.



S. Vaisakh
S1 - CSE

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Ashok Rajat
2016 - 20 CE
Junior Engineer



Shamnad T. K.
2016 - 20 CE
Junior Engineer

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Akash V.
ME



Harisankar T.
ME



Monish J.
ME



Vishnupriya K.
ECE



Megha K. A.
ECE



Jissy R.
ECE



Amitha Mohandas
CSE



K. Deepthi
CSE



Ajay Prakash Nair
CSE



Ramya Vijayakumar
CSE



Vishnu Prasad
CSE



Anandu K.
CSE

ALIENS ARE REAL!



Anand Haridas
Asst Prof. - CSE

The Aliens and the concomitant UFO sightings are an overly contentious topic that has remained a mystery and continues to be so in its entirety or at least in parts for many a centuries till date. Probably the incidents of sightings of these extra terrestrial ultra modern space ships with varied geometries equipped with camouflaging capabilities, unmatched velocity and much more, added to the presence of extremely hostile and strange visitants inside it, could be the longest argued and most belligerent subject in history of mankind next to the one on 'existence of God'.

There has been countless incidents of UFO sightings from different corners of the earth over the past many decades some of them were brought on record using various highly sophisticated sensing and recording devices the latest being the US Navy's laudable effort that has quite convincingly captured these ultra modern spaceships hovering over our planet, to add more credibility and cogency to it, the most powerful defence office in the world- the Pentagon has of late verified and released a press note stating that the strange fast moving object that was captured on US navy camera sometime earlier was indeed a UFO. And this top level testimonial from the highest echelon can aptly be considered as a precursor towards renaming UFOs to IFOs as these objects are no longer unidentified rather they are pretty much identified. But the purpose of visit of theirs, still remains very much unknown.

Aliens, the travelers inside these UFOs probably are an evolved living being, rather an evolved soul that perhaps has the occult powers to materialize and dematerialize in and out of a human form at their will, and these aliens being highly evolved souls, as against the popular belief, can never do any harm to the human beings or for that matter to any living beings on this planet earth, they can only aid us in whatever way possible to raise the entire human race to a higher pedestal of consciousness and existence. These aliens are understood to be inhabitants of far off galaxies that could be ahead of our galaxy by at least a century in all aspects which is strongly justified by the astonishing capabilities of their vehicle, the UFO, something which probably works on highly advanced principles of nanotechnology that are still beyond the grasp of our scientists and engineers.

These apparitions, being highly evolved never deliberately materialize in front of a human being because they being advanced can very well sense the thoughts of a normal human and it can very well discern that such an act would be extremely scary and fatal from the point of view of a human. But these aliens who in a way are our own brethrens are always on the lookout for an opportunity to lend a helping hand to the human race which has got itself heavily tangled in a bloated pursuit for worldly and materialistic goodies which has lead to the vicious episodes of violence and many a horrendous acts on this planet to which we the humans has almost got accustomed to. This noble purpose of theirs to assist the humans in whatever way possible could be the reason why there has been innumerable UFO sightings throughout the history, in fact these aliens are on the constant lookout for the right set of people and community or even a grouping on the planet earth that are much evolved to accommodate an alien in their conscious thoughts so that these brethrens of ours from far off planets could work through these people or grouping to carry out their divine purpose of raising the humans and all the inhabitants of the planet earth to a higher level of existence where there are no geographical or emotional boundaries or separation among living beings, where living beings freely communicate through thoughts what is often referred to as telepathy by the modern science. But unfortunately these aliens could not find success till this moment in their countless endeavors for the want of such an evolved set of human grouping on this planet earth.

But going by the earnest, tenacious and unceasing efforts of theirs, it could very well be said that these apparitions would definitely, one day be able to carry out their godly mission which would subsequently revolutionize this entire planet in a big way leading to the formation of a renewed and reformed earth devoid of any sort of unjustness that perhaps would be beyond our immediate comprehension and grasp. Unfortunately to witness that revolutionary day our present lifetime would be too insufficient as that 'would be' glorious day seemingly lies many a centuries from here....

ഞാൻ ഞാനായിരുന്നാൽ മതി



Anima P. S.
Admin. Asst.

എടീ... നീയൊന്നു പതുക്കെ നടക്ക്... സ്റ്റേയർ കുലുങ്ങുന്നു.. സ്കൂളിന്റെ മുകളിലെ പടി കയറികൊണ്ടിരിക്കുമ്പോൾ ഒരുത്തൻ ഇതു പറഞ്ഞതും എല്ലാവരും കൂടി പൊട്ടിച്ചിരിച്ചു...ഒന്നും പറയാതെയവൾ മുന്നോട്ട് നടന്നു..പതിവുപോലെ സ്കൂൾ വിട്ട് ചിരിച്ചു കൊണ്ട് വീട്ടിലേക്ക് വരുന്ന ദിവ്യയുടെ മുഖം അന്ന് വല്ലാതെ കറുത്തിരിന്നു.... അമ്മ കാര്യം എന്താണെന്ന് തിരക്കിയെങ്കിലും അവൾ ഒന്നും പറയാതെ കുറച്ചുനേരം കണ്ണാടിയ്ക്കു മുൻപിൽ നോക്കി നിന്നു...തന്നെ തടിച്ചിയെന്നും ആനയെന്നുമെല്ലാം കളിയാക്കി വിളിച്ചവരെ തിരിച്ചു കളിയാക്കി വിളിക്കാൻ വേറെ പേരൊന്നും അവൾക്ക് കിട്ടിയില്ല ... സ്കൂൾ വിട്ട് വന്നപ്പോൾ കഴിക്കാൻ മേശപ്പുറത്ത് വച്ചിരുന്ന സ്വാദേറിയ ദോശയും ചട്നിയും അവളെ നോക്കി ചിരിക്കുന്നതു പോലെ തോന്നി..അമ്മയുടെ ചോറും മീൻകറിയോടും ഇനി മുതൽ ഇഷ്ട്ടക്കേട് കാണിക്കേണം..അമ്മേ ഇനി മുതൽ രാത്രി ഭക്ഷണം വേണ്ടാ....ഇന്നു മുതൽ ഡയറ്റിംങ് ആണ് ഞാൻ..വളരെ ഉച്ചത്തിൽ വിളിച്ചു കൂവി..അകത്തുണ്ടായിരുന്ന നായക്കുട്ടി ജിക്കു അവളെ ക്കുന്നുണ്ട്..നോക്കണ്ട നീ അതും കൂടെ നിനക്ക് തന്നെ..അത് എന്താ മോളെ നിനക്ക് ഭക്ഷണം വേണ്ടാത്തത്? ...നിനക്ക് ഇഷ്ട്ടപ്പെട്ട ചോറും മീൻകറിയുമുണ്ട്...എന്നാൽ നാളെ തൊട്ട് തുടങ്ങിയാല്ലോ ഡയറ്റിംങ്ങ്?? ..മനസ് നിറയെ ചോറിനോടും മീൻകറിയോടുമുള്ള കൊതിയാണ്.....ഇനിയും എല്ലാവരും എന്നെ തടിച്ചി എന്ന് വിളിക്കില്ലെ... കഴിക്കില്ല എന്ന് തന്നെ അവൾ ഉറപ്പിച്ചു.രാത്രി കിടക്കുന്നേരം അവളുടെ മനസ്സു മുഴുവൻ അപകർഷതകൊണ്ട് നിറഞ്ഞു..മറ്റുള്ളവരെപ്പോലെയല്ല ഞാൻ എൻറെ ശരീരം വളരെ മോശമാണ്.. അവൾക്ക് ഉറങ്ങാൻ കഴിഞ്ഞില്ല..അമ്മയും അച്ഛനും എന്നെപ്പോലെ തടിച്ചല്ലല്ലോ ഇരിക്കുന്നേ പിന്നെ ഞാൻ എങ്ങനെയാ ഇത്രയും തടിച്ചത്... പല കളിയാക്കലുകളും അവളിൽ അടിച്ചേൽപ്പിച്ചു കൊണ്ടിരുന്നു... പഠിക്കാൻ മിടുക്കിയായിരുന്ന അവൾ എല്ലാ വിഷയങ്ങളിലും മികച്ച പ്രകടനം കാഴ്ച്ചവെച്ചിരുന്നു..വളരെ പ്രതീക്ഷയോയെ സ്കൂൾ ജീവിതത്തിൽ നിന്ന് കോളേജ് ജീവിതത്തിലേക്കുള്ള യാത്രയാരംഭിച്ചു... കോളേജിൻറെ തുടക്കത്തിൽ തന്നെ നവാഗതരെ സ്വാഗതം ചെയ്യാൻ സീനിയേഴ്സും ഉണ്ടായിരുന്നു...അന്ന് കിട്ടിയ റാഗിങ്ങ് അവളുടെ തടിയെ കളിയാക്കി കൊണ്ട് തന്നെയായിരുന്നു.. ഡാൻസ് കളിക്കാൻ അറിയില്ലെന്നു പറഞ്ഞ അവളെ തടിച്ചവർ കുലുങ്ങി കളിക്കുന്നത് കാണാൻ രസമാണെന്ന് പറഞ്ഞായിരുന്നു അവഹേളനം.ക്ലാസ്സിൽ കയറിയപ്പോൾ അവൾക്ക് ആരോടും മിണ്ടാൻ തോന്നിയില്ല..പലരും അങ്ങോട്ടും ഇങ്ങോട്ടും പരിചയപ്പെടുന്നത് അവൾ കാണുന്നുണ്ട്..ഒന്നും സംസാരിക്കാതെ ഒരു ബെഞ്ചിന്റെ അറ്റത്തിരുന്നു... ഇന്റർവെൽ ആയപ്പോൾ അവളുടെ അടുത്ത് വന്ന് ഒരു സുഹൃത്ത് പരിചയപ്പെട്ടു..പതിയെ പതിയെ അവളുടെ സങ്കടങ്ങളും സന്തോഷങ്ങളും പങ്കുവെക്കുന്ന സുഹൃത്തായി മാറി.. സൗഹൃദം കൊണ്ട് മാറ്റാൻ കഴിയാത്ത ഒന്നുമില്ല ഈ ലോകത്ത്...അവളിലെ കഴിവ് കണ്ടെത്താനും അവളെ മോട്ടിവേഷൻ ചെയ്യാനും കാരണമായത് ഈ സൗഹൃദം തന്നെയാണ്.. മറ്റുള്ളവർ എങ്ങനെ കളിയാക്കിയാലും അതൊന്നും തന്നെ ബാധ്യക്കേണ്ട കാര്യങ്ങൾ അല്ലാ എന്ന് അവൾ മറസിലാക്കി..മറ്റെല്ലാവരെക്കാളും മികച്ചൊരു ശബ്ദം അവൾക്കുണ്ടായിരുന്നു.. കോളേജ് എഫ്.എമിലൂടെ ക്ലാസ്സ് റൂമിലും വരാന്തകളിലും കേട്ടു കൊണ്ടിരുന്ന ശബ്ദം അവളുടേതായി മാറി...കോളേജിലെ മൈതാനത്ത് സംസാരിച്ചിരിക്കുന്നതിടയിൽ ആണ് ടൗണിലുള്ള എഫ്.എമിലേക്ക് ആളെ ആവശ്യമുണ്ടെന്നൊരു പരസ്യം കാണുന്നത്.. എനിക്ക് ഒന്നും കഴിയില്ല എന്ന് വിചാരിച്ചിരുന്ന അവളെ സുഹൃത്തിന്റെ നിർബന്ധം കൊണ്ട് ഇന്റർവ്യൂ പങ്കെടുക്കുകയും ചെയ്തു..രണ്ടു ദിവസത്തിനു ശേഷം സെലക്റ്റ് ആയി എന്നു പറഞ്ഞ് കോൾ വന്നു.അവളുടെ ഉയർച്ചയുടെ ആദ്യ പടിയായി ആ ഇൻറർവ്യൂ മാറി.ഈ ഭൂമിയിൽ കുറച്ചു പേരെങ്കിലും അവൾ ഇവിടെ ജീവിച്ചിരിക്കുന്നുണ്ടെന്ന് അറിയാൻ തുടങ്ങി.. എല്ലാ കളിയാക്കലുകളും അവളുടെ ജീവിതം മാറ്റിമറിച്ചു...ഇന്ന് അവൾ ലോകം അറിയപ്പെടുന്ന ഒരു മോട്ടിവേറ്റർ ആണ്. തൻറെ പോരായ്മകൾ വകവെക്കാതെ മറ്റുള്ളവരുടെ സങ്കടങ്ങൾക്കൊരാശ്രയമായി.മറ്റുള്ളവരുടെ പ്രശംസയിൽ സ്വയം അഭിമാനം കണ്ടെത്തി പിന്നീട് അവൾ ലോകം അംഗീകരിച്ച ഒരുവളായി മാറി...





Sowmya Sree M.
2019-23, CE

തരുണങ്ങൾ

കാലം പറഞ്ഞതു മാത്രമേ
നേരന്നുചൊല്ലിടും ലോകമേ
മറന്നു പോയി തിരഞ്ഞിടാൻ
പഠിച്ചതെന്തെന്നും അറിഞ്ഞതെന്തെന്നും.
അമ്മയെന്നാൽ ആയിരം പ്രപഞ്ചത്തിന് സമം
അമ്മയല്ലാതെ മറ്റൊരു ലോകമില്ലെന്നും ഓർക്കുക
ഭൂമി സൂര്യനെ ചുറ്റും പോലെ
മരങ്ങൾ വേരിൽ ഉറക്കുന്നത് പോലെ
ഞങ്ങൾ എല്ലാം അവളിൽ അഭയം തേടുന്നു
ആർത്തവത്തെ അശുദ്ധിയെന്ന്
ചൊല്ലിയ നീ ഓർക്കുക ലോകമേ.
നിന്റെ ഭൂമിയുമശുദ്ധിയാണെന്ന്
കാലമേ നീ പറഞ്ഞതു തെറ്റ്
നേരന്ന് ചൊല്ലിയ ലോകവും തെറ്റ്
മറന്നുപോയതും തെറ്റ്
പഠിച്ചതുമറിഞ്ഞതും തെറ്റ്
മാറണം ഈ ചിന്തകൾ
വളരണമീ മനുഷ്യർ
ഉയരണം ഈ നാവുകൾ
പറയണം കനൽ വാക്കുകൾ
കാലമേ പിറക്കട്ടെ ഇനിയൊരു ലോകം
നേരറിയാനായ്
നേരുതിരയാനായി.



Aswin Haridas
2020 - 24 ECE

ASET ACTIVITIES

FDP ON ADVANCED ENGINEERING MATERIALS AND CHARACTERISATION TECHNIQUE

The Department of Mechanical Engineering, Ahalia School of Engineering and Technology organized a 3-day online Faculty Development Programme, sponsored byAPJ Abdul Kalam Technological University (KTU) on "Advanced Engineering Materials & Characterization Technique" from19.05.2021 to May 21.05.2021. The programme was coordinated by Prof. D Prakash (Head of the Department), Mr. Dheeraj P (Assistant Professor) & Mr. Anil M(Assistant Professor) Prof D Prakash welcomed the gathering and briefed about the FDP and its importance. He explained various outcome of the program. He gave a brief outline of program and requested all participants to enrich their knowledge from this FDP by their effective participation.

The programme was inaugurated on 19th May 2021 by Dr. P.R Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology and Director, Ahalia group of Academic Institutions. He pointed out the importance of material science for all the engineering branches. He stressed on the necessity of participation for such online Faculty Development Programme (FDP) in the current academic scenario. He appreciated the Department for taking the initiative and bringing funded programmes. Dr. Krishna Kumar Kishor, Vice- Principal, Ahalia School of Engineering and Technology and Assistant Director, Ahalia Group of Academic Institutions, felicitated the gathering. He highlighted the need to study new technologies related to the material development. He felt that the participants will find this 3-day FDP productive and enriching their knowledge. Mr. Dhanesh S, Assistant Professor, Mechanical Engineering proposed the vote of thanks.

There was a total of 9 sessions. Each session was handled by experts from reputed academic institutions like IITs, NITs and other renowned institutions. Various topics like Micro-Machining, Additive Manufacturing, Characterization Technique, Nano-Indentation etc. were handled by these experts. A total of 95 participants from across the country registered and 44 participants actively participated in the programme.

The FDP was concluded with valedictory function on 21 May 2021. The chief Guest for Valedictory function was Dr. U. Sudeep, Professor, NSS College of Engineering, Palakkad. The session ended with a thank-you note from Prof. D Prakash, FDP Coordinator. He emphasized the enormous contributions of the members of the Organizing Committee and the experts. He also thanked Dr. P.R. Sreemahadevan Pillai, Principal of the Ahalia School of Engineering and Technology and Director of the Ahalia Academic Institutions Group, and Dr. Krishna Kumar Kishor, Vice President and Assistant Director of the Ahalia Academic Institutions Group. He thanked the members of the Ahalia Management for the support extended for conducting the event. He also expressed his sincere gratitude to all the speakers who have devoted their precious time. He thanked all the participants for their active involvement in all the three days and for making this event a grand success.



Prof. D. Prakash
HoD - ME



Dr. P. R. Sreemahadevan Pillai
Principal



Dr. Krishna Kumar Kishor
Vice Principal



Dr. Sudeep U.
Prof. - ME
NSS College of Engg. Palakkad

TECHNICAL SESSION

Day 1

Session 1 was handled by Dr. U Sudeep, Professor, Department of Mechanical Engineering, NSS College of Engineering, Palakkad. The topic of the session was "Introduction to surface & Material Characterization", where he pointed out the need for characterization. He gave a brief explanation with the help of few examples.



Dr. Sudeep U.
Prof. - ME
NSS College of Engg. , Palakkad

Session 2 was handled by Dr. S Kanmani Subbu, Assistant Professor, Department of Mechanical Engineering, IIT Palakkad. The topics of his session include the need for micro-machining, conventional and non-conventional micro machining, variants of micro EDM and the issues related to micro-machining



Dr. S. Kanmani Subbu
Asst. Prof. - ME
IIT Palakkad

Session 3 was handled by Dr. Pramod V R, Professor, Department of Mechanical Engineering, NSS College of Engineering, Palakkad. The topic of the session was "Modern Trends in Composite Materials". The session contents include the modern composite materials, their advantages and disadvantages, effect of fibre orientation and methods of manufacturing.



Dr. Pramod V. R.
Prof. - ME
NSS College of Engg. Palakkad

Day 2

Session 1 was handled by Dr. Aneesh Kumar P, Professor, Department of Mechanical Engineering, NSS College of Engineering, Palakkad. The topic of the session was "Functionally Graded Materials, an overview". He talked about this new class of composite materials which draws considerable attention these days. He discussed the specification and applications of the Functionally Graded Materials and compared the same with traditional materials.



Dr. Aneesh Kumar P.
Prof. - ME
NSS College of Engg. , Palakkad

Session 2 was handled by Dr. D Kesavan, Assistant Professor, Department of Mechanical Engineering, IIT Palakkad. The topic of the session was "Metal Additive Manufacturing". He presented a brief overview about the need of metal Additive manufacturing in industries. He went to discuss the steps involved and concluded with the opportunities of research in the field.



Dr. D. Kesavan
Asst. Prof. - ME
IIT Palakkad

Session 3 was handled by Dr. Hanas T, Assistant Professor, School of Materials Science and Engineering, NIT, Calicut. The topic of the session was "Nanotechnology & Medical Materials". He started with a small introduction to the world of Nanotechnology and went to discuss some nano scale effects and its anomalies. He also discussed its medical applications and also the areas of current research.



Dr. Hanas T.
Asst. Prof.
School of Material Sci.
& Engg. NIT Calicut

Day 3

Session 1 was handled by Dr. U Sudeep, Professor, Department of Mechanical Engineering, NSS College of Engineering, Palakkad. The topic of the session was "Few micro/nano manufacturing techniques for advanced materials". His topic of discussion included additive manufacturing for making porous structured bio-implants, fabrication of atom probe tomography needle using Focus Ion Beam Machining and three precision finishing techniques (AFF, MRF and MRAFF)



Dr. Sudeep U.
Prof. - ME
NSS College of Engg. , Palakkad

Session 2 was handled by Dr. R Vaira Vignesh, Assistant Professor, Department of Mechanical Engineering, Amrita School of Engineering & Technology, Coimbatore. The topic of the session was "Engineering the corrosion kinetics of Magnesium Alloy for Biodegradable Implant Applications". His started with the need for biodegradable implants and the materials used for such implants. He discussed Friction stir processing of Magnesium alloy AZ91 with and without SiO2 and concluded with their limitations.



Dr. R. Vaira Vignesh
Asst. Prof. - ME
Amrita School of Engg. & Tech.
Coimbatore

Session 3 was handled by Mr. Arunkumar M, Assistant Professor, Department of Mechanical Engineering, NSS College of Engineering, Palakkad. The topic of the session was "Mechanical Behavioural study using Nano-Indentation". He explained typical P-h curves for the loading portion of a nano indentation and schematics of indenter tips. He also gave a short introduction to the background of Atomic force microscope and its applications.
The following Feedback was received from the participants:

• 81.6% of the participants felt that the delivery and presentation of the Resource Persons were excellent and 16.3% of the participants felt that it was very good.

• 79.6% of the participants responded that the coordination of the FDP as excellent 16.3% of the participants felt that it was very good.

• Most of the participants gave excellent rating for all the sessions they attended in terms of usefulness and effectiveness.



Arun Kumar M.
Asst. Prof. - ME
NSS College of Engg., Palakkad

AICTE-ISTE SPONSORED SIX DAY FDP ON MACHINE LEARNING AND OPTIMIZATION – PHASE III

The Department of Electronics and Communication Engineering, of Ahalia School of Engineering and Technology Palakkad had organized an AICTE –ISTE sponsored Online Faculty Development Programme (FDP) on "Machine Learning and Optimization" Phase-III during 17-22, May 2021.

This FDP designed with the state-of-the-art concepts of Machine Learning and Optimization that comprises of theory as well as hands-on sessions.

The objective was to address modern trends in the field of Artificial Intelligence with real-time problem-solving.

To motivate faculty members from engineering domains like electronics etc. to adopt latest technologies like Machine Learning and Optimization.

The faculty members will gain knowledge in Machine Learning principles through a lot of practical applications covering industrial case walk-throughs and real-time applications.

To provide hands-on training to faculty members on various tools and platforms of machine learning, data science and Optimization.

To provide platform to faculty members to interact with industry experts from these domains.

To make faculty members aware that machine learning, data science technologies need to increase employable skills and also empower faculty members in these technologies by providing opportunity of learning.

The course was designed to benefit academicians, researchers, and practicing engineers

INAUGURAL SESSION

The Faculty Development Programme (FDP) on "Machine learning and Optimization" Phase III was inaugurated on 17th May 2021 by Col. B .Venkat, Director, Faculty Development Cell, AICTE, New Delhi. The welcome address was given by Dr.V. Balamurugan, Professor and Head, Department of ECE, Ahalia School of Engineering and Technology, Palakkad. In the welcome speech, he endorsed the importance of Teaching and learning process. Dr. P .R Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology and Director, Ahalia group Academic Institutions presided over the function. He mentioned the FDP's of this kind would help to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development programmes. Dr Krishnakumar Kishor , Vice Principal Ahalia School of En-

gineering and Technology and Assistant Director, Ahalia group Academic Institutions felicitated the gathering . He urged the participants to actively involve in the technical sessions. Ms. Vijitha Khan, Assistant Professor, Department of ECE delivered the vote of thanks.



Dr. V. Balamurugan
Prof. & HoD -ECE
ASET



Dr. P. R. Sreemahadevan Pillai
Principal
ASET



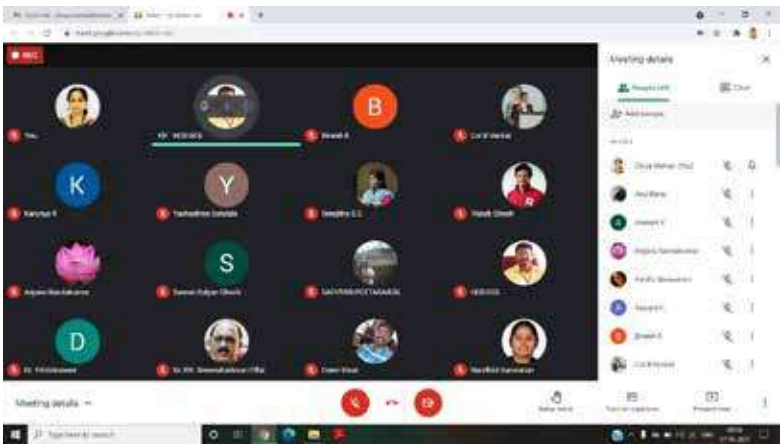
Col. B. Venkat
Director -
Faculty Develpoment Cell
AICTE, New Delhi

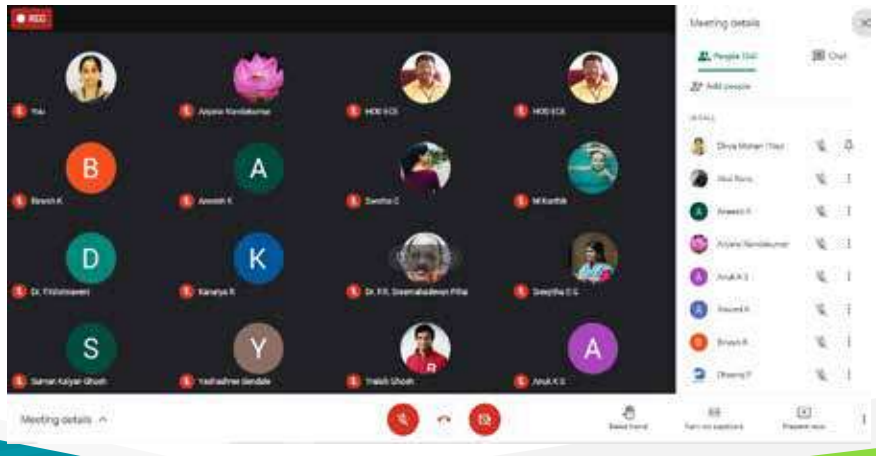


Dr. Krishnakumar Kishor
Vice - Principal
ASET



Mrs. Vijitha Khan
Asst. Prof. - ECE
ASET





17th May 2021

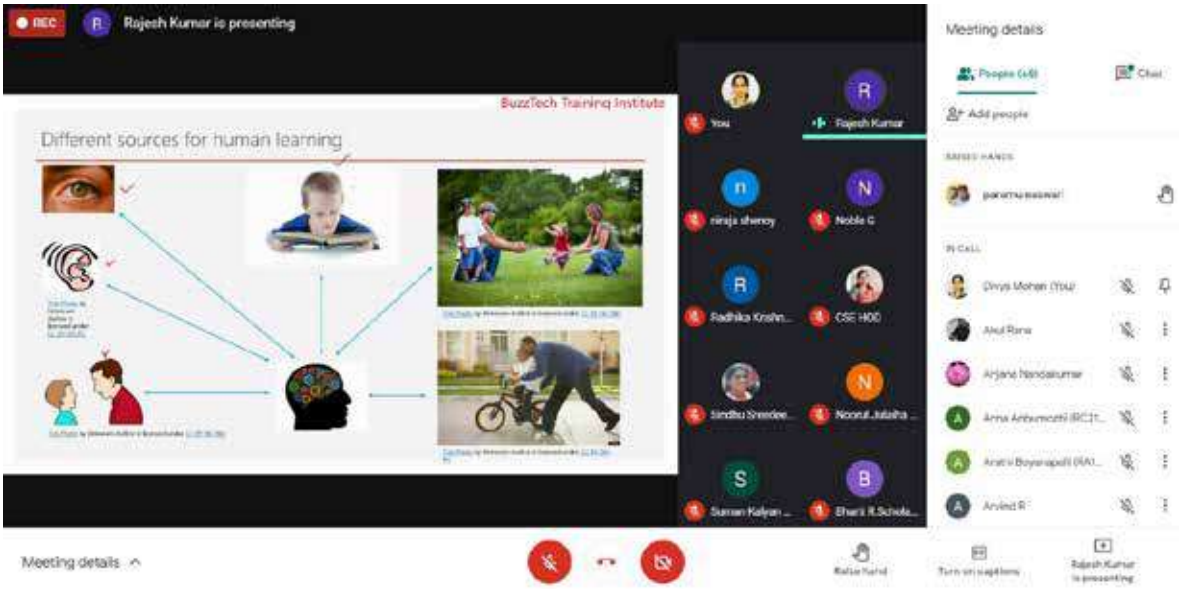
Session I & II - Machine learning techniques and tools, supervised learning, unsupervised learning and reinforcement learning, Regression and classification

In this session he discussed in detail about types of Machine learning, supervised learning, unsupervised learning and reinforcement learning, then regression and its classification, machine learning end to end process. The session was really helpful for building a basic idea on the concept of machine learning. And he also explained about ANACONDA, which were the easiest way to install python libraries. He also dealt with the advanced areas in AI and ML. The speaker enumerated regression and regression problem and Machine learning through various examples.



Mr. H. Rajesh Kumar
Founder, BuzzTech Training Institute, Coimbatore.

He started with definition of machine learning and a concise introduction to the fundamental concepts in machine learning and popular machine learning algorithms. He explained the standard and most popular supervised learning algorithms including linear regression, logistic regression, decision trees, knearest neighbour, an introduction to Bayesian learning and the naïve Bayes algorithm, support vector machines and kernels and neural networks with an introduction to Deep Learning.



He described the types of machine learning algorithms are mainly divided into four categories: Supervised learning, Un-supervised learning, Semi-supervised learning, and Reinforcement learning. Performing machine learning involves creating a model, which is trained on some training data and then can process additional data to make predictions. Various types of models have been discussed for machine learning system when training a machine learning model, one needs to collect a large, representative sample of data from a training set. Data from the training set can be as varied as a corpus of text, a collection of images, and data collected from individual users of a service. Overfit is something to watch out for when training a machine learning model. Trained models derived from biased data can result in skewed or undesired predictions. The various factors to be considered while designing a system in machine learning were discussed in detail. The session concluded at 01:00 P.M

Session III - Data preprocessing for Machine Learning, Exploratory Data Analysis (EDA), Data Cleaning and Feature Engineering

The following concepts were covered in the session. He started the session by explaining steps in Data Preprocessing in Machine Learning, acquire the dataset, import all the crucial libraries and data set, identifying and handling the missing values, splitting the dataset, feature scaling etc. Data preprocessing is an integral step in Machine Learning as the quality of

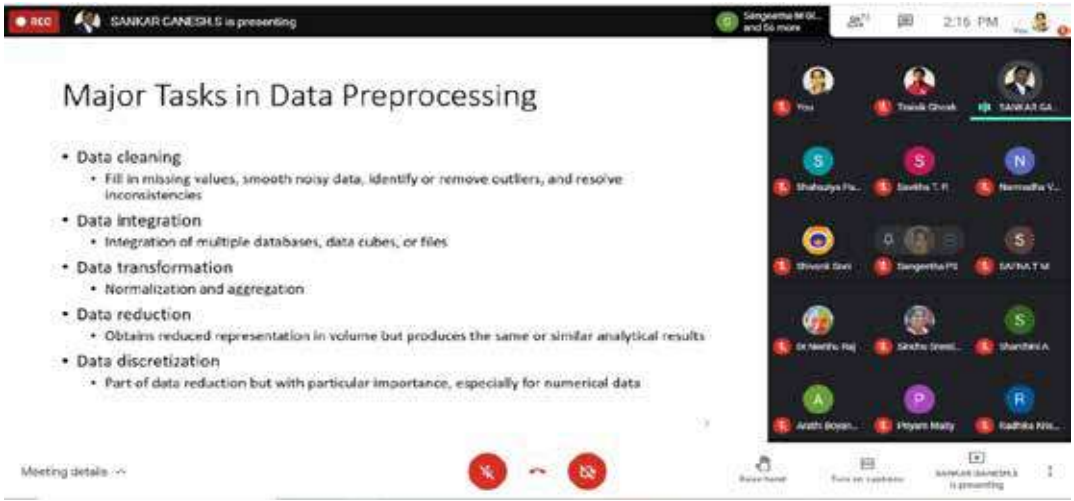
data and the useful information that can be derived from it directly affects the ability of our model to learn; therefore, it is extremely important that preprocess data before feeding into the model.

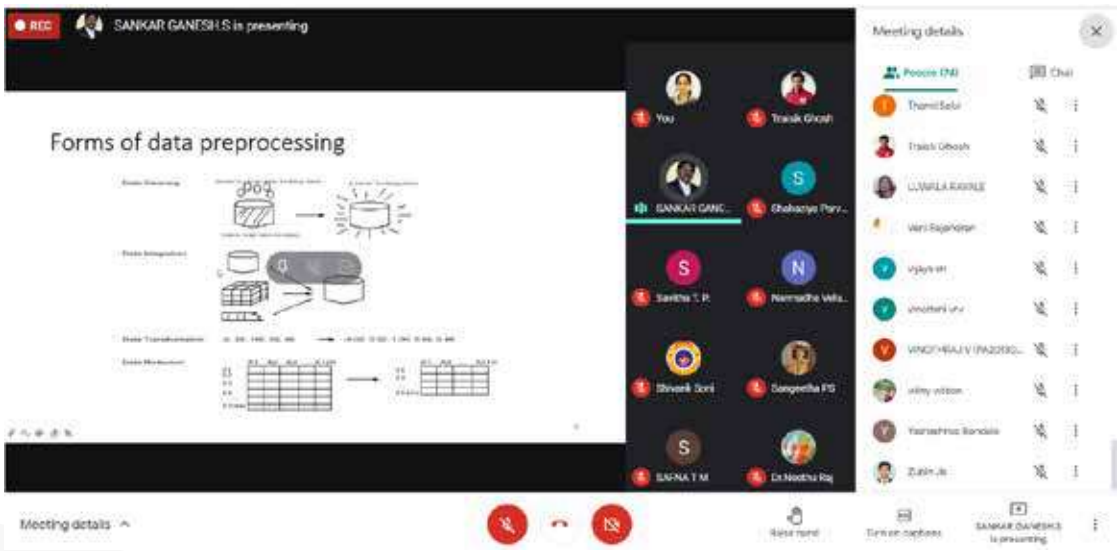


Dr. S. Sankar Ganesh
Asst. Prof. Sr. Grade 1
Dept. of
Communication Engineering,
School of Engineering,
Vellore Institute of Technology

Exploratory data analysis (EDA) is a term for certain kinds of initial analysis and findings done with data sets, usually early on in an analytical process. The primary goal of EDA is to maximize the analyst's insight into a data set and into the underlying structure of a data set, while providing all of the specific items that an analyst would want to extract from a data set, such as: a good-fitting, parsimonious model. a list of outliers. He explained that Python and R language are the two most commonly used data science tools to create an EDA. Python: EDA can be done using python for identifying the missing value in a data set. Other functions that can be performed are — the description of data, handling outliers, getting insights through the plots.

Data cleaning as a process of subtraction and feature engineering as a process of addition. Feature engineering is the process of using domain knowledge to extract features (characteristics, properties, attributes) from raw data. A feature is a property shared by independent units on which analysis or prediction is to be done. Features are used by predictive models and influence results. Feature engineering is useful to improve the performance of machine learning algorithms and is often considered as applied machine learning. Selecting the important features and reducing the size of the feature set makes computation in machine learning and data analytic algorithms more feasible.Dr.S. Sankar Ganesh concluded his session by discussing the recent trends and applications of Data Cleaning and Feature Engineering





18th May 2021

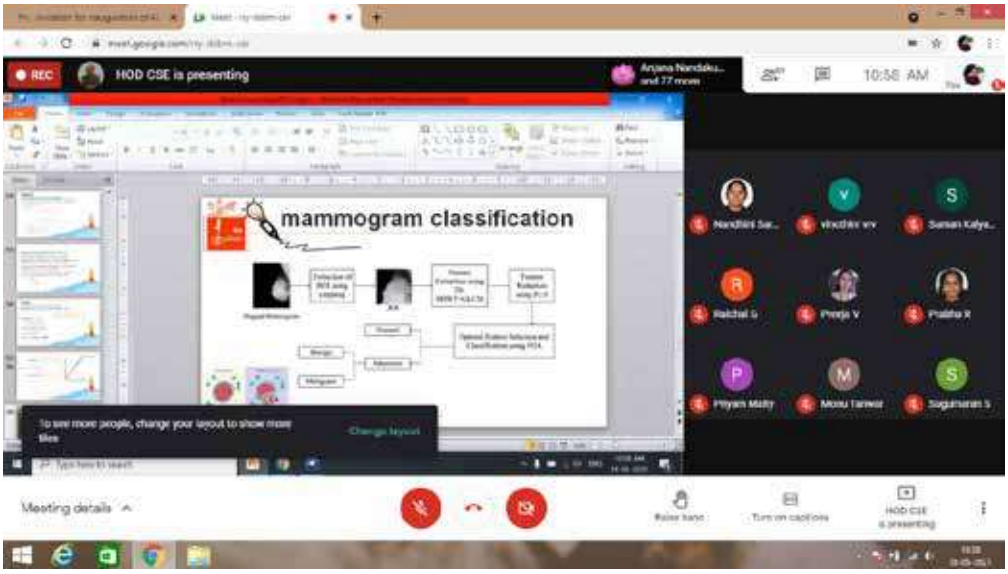
Session I - Dimensionality Reduction-Subset Selection, Principal Component Analysis using Google COLAB

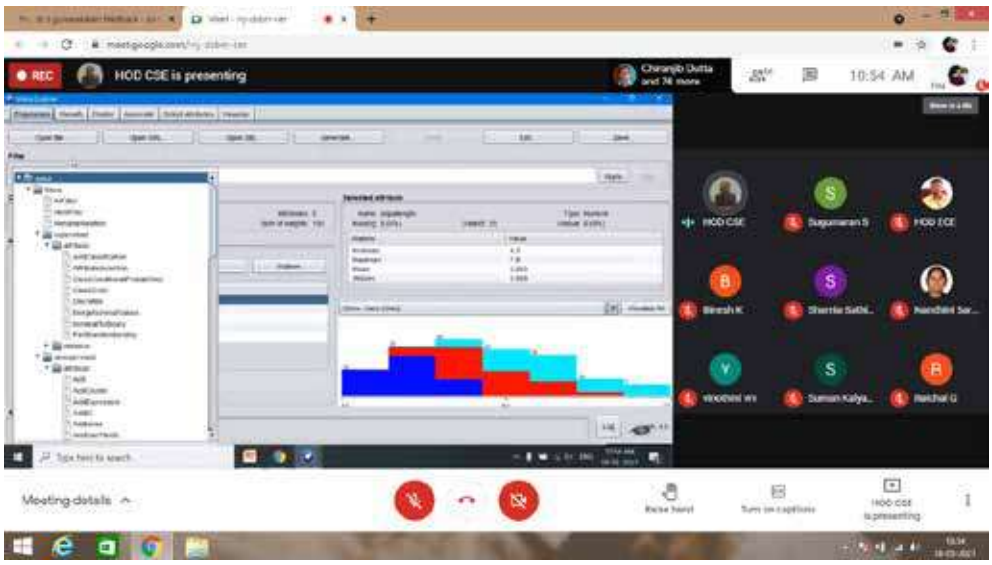


Dr. S. Gunasekaran
Prof. & HoD - CSE
ASET

The first session was about Dimensionality Reduction-Subset Selection, Principle Component Analysis using Google COLAB by Dr.Gunasekaran, HOD-CSE-Ahalia school of Engineering and Technology. In his talk he concentrated more on principal component analysis (PCA). "PCA is fundamentally a dimensionality reduction algorithm, but it can also be useful as a tool for visualization, for noise filtering, for feature extraction and engineering, and much more". Using PCA for dimensionality reduction involves zeroing out one or more of the smallest principal components, resulting in a lower-dimensional projection of the data that preserves the maximal data variance.

He enumerated PCA with a mammogram classification example. PCA's main weakness is that it tends to be highly affected by outliers in the data. For this reason, many robust variants of PCA have been developed, many of which act to iteratively discard data points that are poorly described by the initial components. He pointed out the significance of Google COLAB for using Principle component analysis. The session was really informative and helpful for realizing much about PCA.





Session II - Support Vector Machine-Implementation-Optimal Separating Hyper Plane

The session 2 was handled by Dr.P.Balakrishnan, Associate Professor in the Department of Analytics, School of Computer Science and Engineering(SCOPE),Vellore Institute Of Technology. He started with introduction to machine learning and its various applications. He completed his session with SVM implementation.



Dr. P. Balakrishnan
Assoc. Prof.,
Dept. of Analytics.
Vellore Institute of Technology

This session covered details of the support vector machine (SVM) technique, a sparse kernel decision machine that avoids computing posterior probabilities when building its learning model. SVM offers a principled approach to problems because of its mathematical foundation in statistical learning theory. SVM constructs its solution in terms of a subset of the training input. SVM has been extensively used for classification, regression, novelty detection tasks, and feature reduction. This chapter focuses on SVM for supervised classification tasks only, providing SVM formulations for when the input space is linearly separable or linearly non separable and when the data are unbalanced, along with examples. The session also presented recent improvements to and extensions of the original SVM formulation along with a case study.

Support Vector Machine or SVM is one of the most popular Supervised Learning algorithms, which is used for Classification as well as Regression problems. However, primarily, it is used for Classification problems in Machine Learning. The goal of the SVM algorithm is to create the best line or decision boundary that can segregate n-dimensional space into classes so that we can easily put the new data point in the correct category in the future. This best decision boundary is called a hyperplane.SVM chooses the extreme points/vectors that help in creating the hyperplane. These extreme cases are called as support vectors, and hence algorithm is termed as Support Vector Machine. The two different categories are classified using a decision boundary or hyperplane.

SVM can be of two types:

➤ Linear SVM: Linear SVM is used for linearly separable data, which means if a dataset can be classified into two classes by using a single straight line, then such data is termed as linearly separable data, and classifier is used called as Linear SVM classifier.

➤ Non-linear SVM: Non-Linear SVM is used for non-linearly separated data, which means if a dataset cannot be classified by using a straight line, then such data is termed as non-linear data and classifier used is called as Non-linear SVM classifier.

➤ He concluded with the hyperplane. There can be multiple lines/decision boundaries to segregate the classes in n-dimensional space, but need to find out the best decision boundary that helps to classify the data points. This best boundary is known as the hyperplane of SVM .The dimensions of the hyperplane depend on the features present in the dataset, which means if there are 2 features then hyperplane will be a straight line. And if there are 3 features, then hyperplane will be a 2-dimension plane.Always try creating a hyperplane that has a maximum margin, which means the maximum distance between the data points. The data points or vectors that are the closest to the hyperplane and which affect the position of the hyperplane are termed as Support Vector. Since these vectors support the hyperplane, hence called a Support vector.



ASET ACTIVITIES

Session III - Decision Trees- Entropy, Information Gain, Tree construction, ID3, Issues in Decision Tree learning- Avoiding Over-fitting, Reduced Error Pruning



Dr. G. Nalinipriya
Prof. - IT
Saveetha Engg. College
Chennai

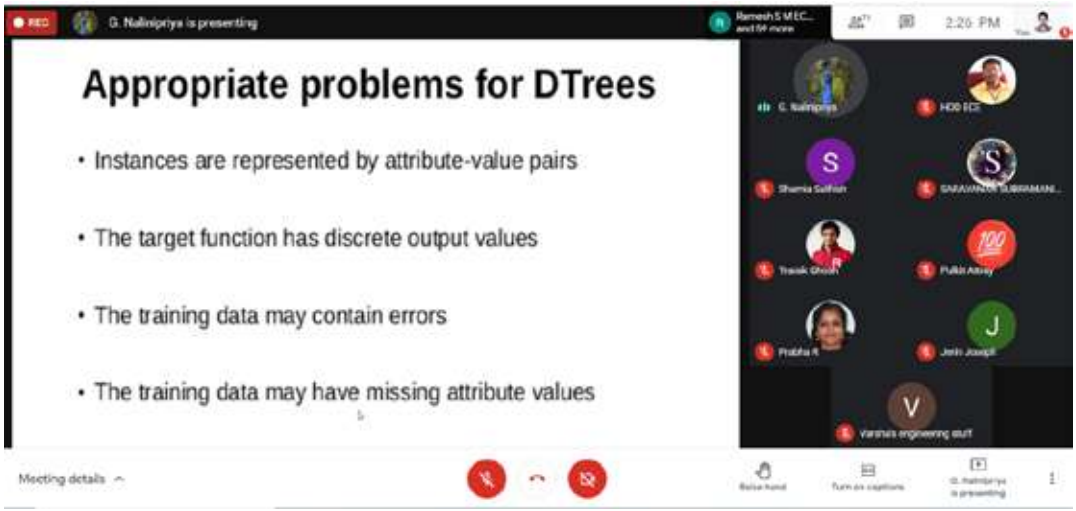
Decision Tree is a supervised learning technique that can be used for both classification and Regression problems, but mostly it is preferred for solving Classification problems. It is a tree-structured classifier, where internal nodes represent the features of a dataset, branches represent the decision rules and each leaf node represents the outcome. In a Decision tree, there are two nodes, which are the Decision Node and Leaf Node. Decision nodes are used to make any decision and have multiple branches, whereas Leaf nodes are the output of those decisions and do not contain any further branches. It is a graphical representation for getting all the possible solutions to a problem/decision based on given conditions.

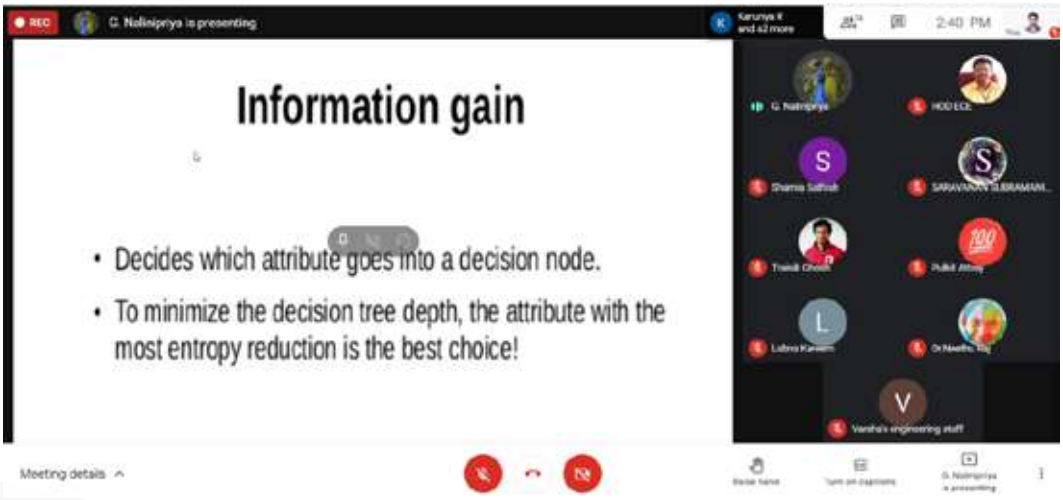
Appropriate Problems for Decision Tree Learning

Instances are represented by attribute-value pairs

- The target function has discrete output values
- Disjunctive descriptions may be required
- The training data may contain errors
- The training data may contain missing attribute values.

She concluded her session by Issues in Decision Tree learning.





19th May 2021

Session I - Neural Networks- The Perceptron, Activation Functions, Training Feed Forward Network by Back Propagation. Feed Forward Multilayer Neural Networks- the Back propagation Algorithm-Implementation.



Dr. Sridhar Swaminathan
Asst. Prof. - CSE
Bennett University, Noida

The following concepts were covered in two sessions

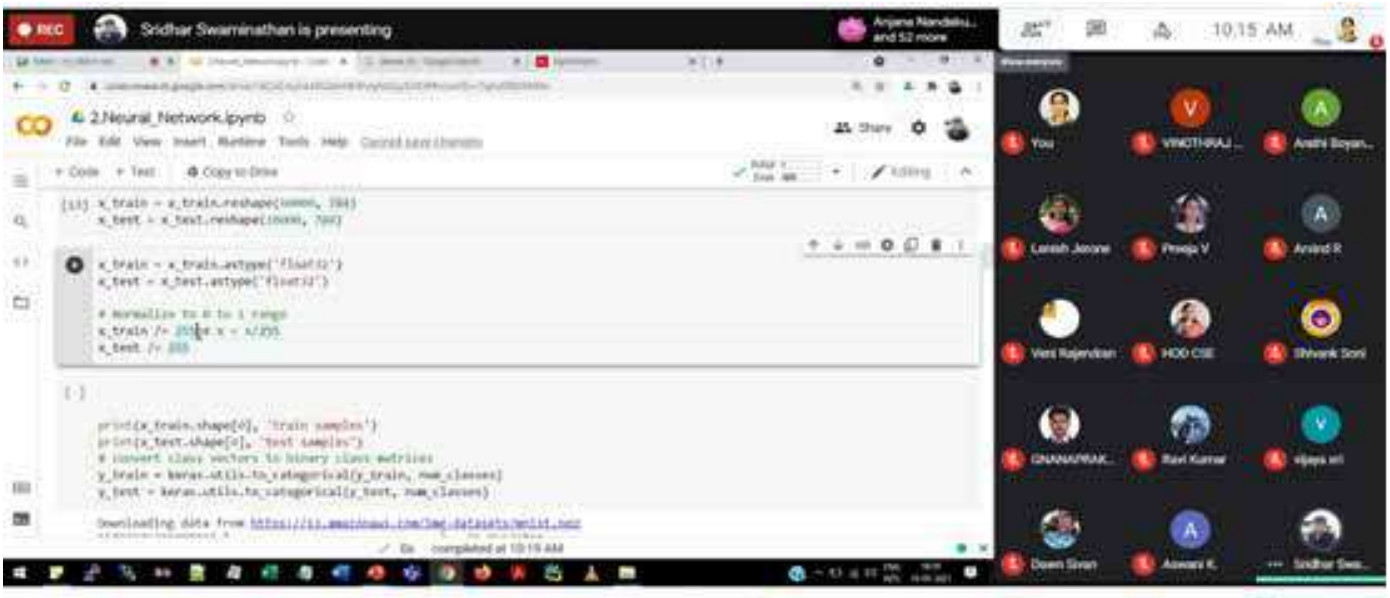
Neural Networks- the Perceptron, Activation Functions, Training and Feed Forward Multilayer Neural Networks- the Back propagation Algorithm -Deep Neural Network.

He started the session by introducing neural networks, the basic idea behind a neural network is to simulate lots of densely interconnected brain cells inside a computer so you can get it to learn things, recognize patterns, and make decisions in a humanlike way. Neural networks are computing systems with interconnected nodes that work much like neurons in the human brain. Using algorithms, they can recognize hidden patterns and correlations in raw data, cluster and classify it, and – over time – continuously learn and improve. Some of the most important types of neural networks and their applications.

The following types were discussed in the session.

- Feedforward Neural Network – Artificial Neuron.
- Radial Basis Function Neural Network.
- Multilayer Perceptron.
- Convolutional Neural Network.
- Recurrent Neural Network (RNN) – Long Short Term Memory.
- Modular Neural Network.

Training a perceptron is an optimization problem which involves iteratively updating the weights in a way that minimizes the error function. We derived the error function and defined what an updated weight should be based on a current weight and the error calculated at the current iteration. A feedforward neural network is an artificial neural network wherein connections between the nodes do not form a cycle. As such, it is different from its descendant: recurrent neural networks. The feedforward neural network was the first and simplest type artificial neural network devised.



Session II - Feed Forward Network by Back Propagation.

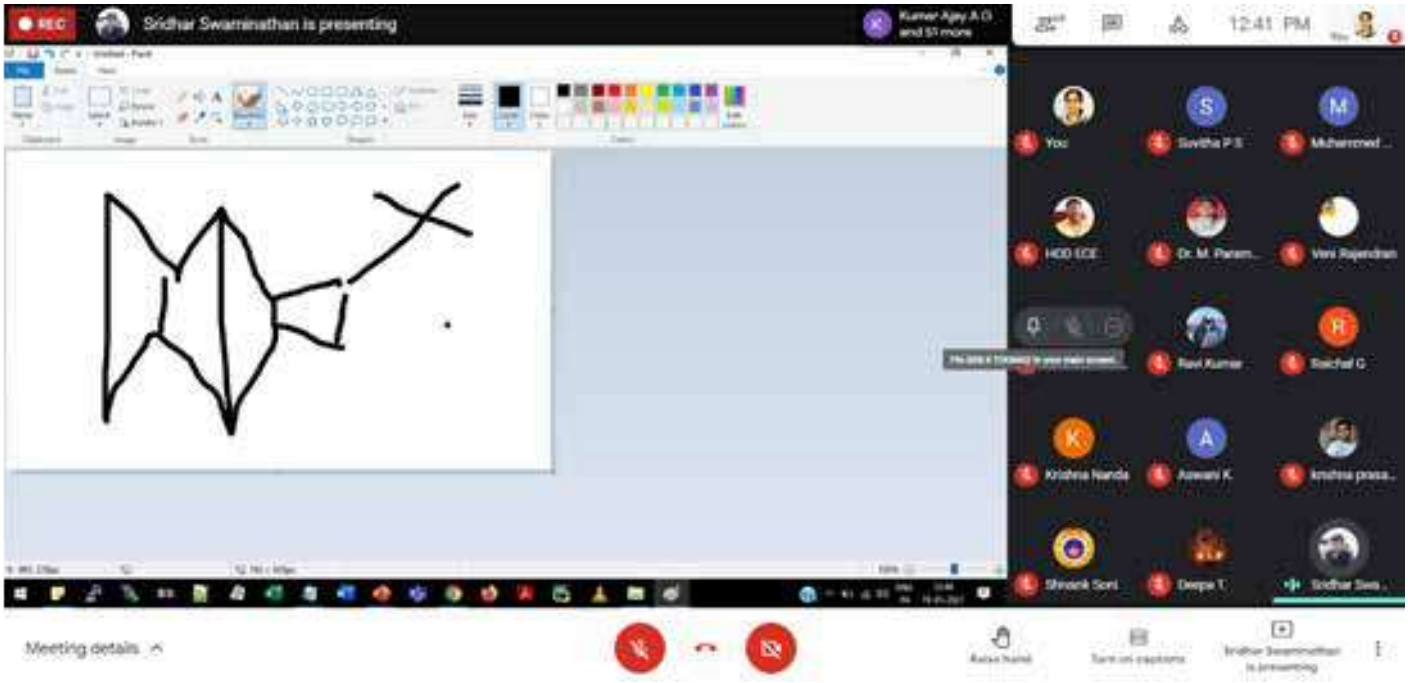


Dr. Sridhar Swaminathan
Asst. Prof. - CSE
Bennett University, Noida

Feed-forward neural networks are primarily used for supervised learning in cases where the data to be learned is neither sequential nor time-dependent. That is, feedforward neural networks compute a function f on fixed size input x such that f (x) ≈ y f(x) \approx. y f(x) ≈y for training pairs (x, y) (x, y) (x,y).

Back-propagation is the essence of neural net training. It is the method of fine-tuning the weights of a neural net based on the error rate obtained in the previous epoch (i.e., iteration). Proper tuning of the weights allows you to reduce error rates and to make the model reliable by increasing its generalization. The backpropagation algorithm works by computing the gradient of the loss function with respect to each weight by the chain rule, computing the gradient one layer at a time, iterating backward from the last layer to avoid redundant calculations of intermediate terms in the chain rule; this is an example of dynamic . Deep learning algorithms run data through several "layers" of neural network algorithms, each of which passes a simplified representation of the data to the next layer. Deep learning algorithms learn progressively more about the image as it goes through each neural network layer.

At a very basic level, deep learning is a machine learning technique. It teaches a computer to filter inputs through layers to learn how to predict and classify information. Observations can be in the form of images, text, or sound. The inspiration for deep learning is the way that the human brain filters information. Deep learning is a subset of machine learning in artificial intelligence that has networks capable of learning unsupervised from data that is unstructured or unlabeled. Also known as deep neural learning or deep neural network. Deep learning utilizes both structured and unstructured data for training. Practical examples of deep learning are Virtual assistants, vision for driverless cars, money laundering, face recognition and many more. He concluded the session with practical implementation.



Session III - Learning Theories.

Dr. P.R Sreemahadevan Pillai started the session by sharing his thoughts and experiences. He started the session by asking several questions and he asked, how do people learn? He explained the Behaviorist Learning Theory. Behaviorism is one of the classic learning theories; it predates cognitivism and most of the other theories were explained. Behaviorism suggests

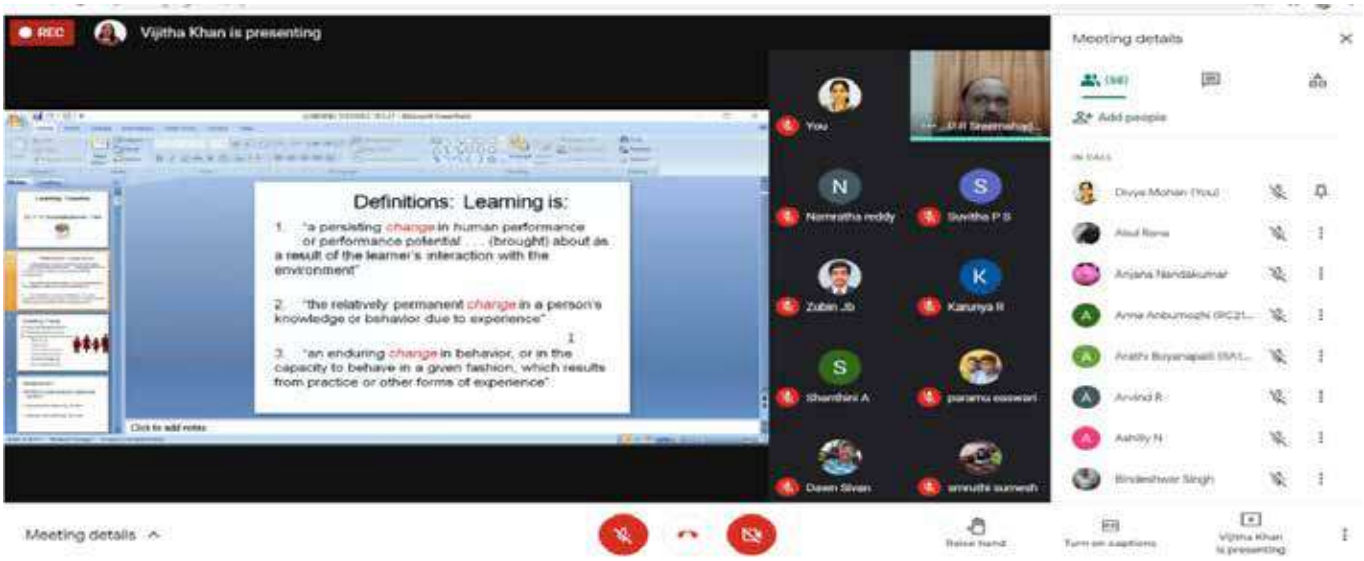
that the learner is a 'blank slate' and that all human behavior can be caused or explained by external stimuli. The basic learning theories are Behaviorism, Cognitivism, Social Learning Theory, Social Constructivism, Multiple Intelligences, Brain-Based Learning.etc..



Dr. P. R. Sreemahadevan Pillai
Principal
ASET

He explained "although there are many different approaches to learning, there are four basic types of learning theory: behaviorist, cognitive constructivist, and social constructivist. This session provided a brief introduction to each type of learning theory. The theories were treated in four parts: a short historical introduction, a discussion of the view of knowledge presupposed by the theory, an account of how the theory treats learning and student motivation, and, finally, an overview of some of the instructional methods promoted by the theory was presented. He discussed Cognitive Learning Theory (CLT) which is about understanding how the human mind works while people learn".

The theory focuses on how information is processed by the brain, and how learning occurs through that internal processing of information. Social learning theory, or SLT, is predicated on the notion that learning occurs through social observation and subsequent imitation of modeled behavior. According to SLT, humans learn from observing the actions and resulting consequences of others. Educational Benefits of Applying Multiple Intelligences Theory. This means that each student has their own intelligence superiorities and weaknesses. Called a learning style, these intelligence domains determine how easily or difficultly a student can learn through a specific teaching method. The psychology of learning is a theoretical science that covers the various psychological theories that relate with learning. Other theories, such as those related to motivation, like the growth mindset, focus more on the individual. The major concepts and theories of learning include behaviorist theories, cognitive psychology, constructivism, social constructivism, experiential learning, multiple intelligence, and situated learning theory and community of practice. Dr. P.R. Sreemahadevan Pillai concluded the session by discussing importance of learning theories because they "help us to understand both how knowledge is created and how people learn



20th May 2021

Session I - Machine learning for Natural Language processing and POS tagging Map reduce for Machine Learning and large-scale data augmentation

The first session was about Machine learning for Natural Language processing and POS tagging Map Reduce for Machine Learning and large-scale data augmentation by Dr. Anand Kumar M Assistant Professor (Grade I), Department of Information Technology, NIT Suratkal. He started with the basics of machine learning and comparison of machine learning with artificial intelligence. after that he enumerated the benefits of machine learning for natural language processing. 'Part-of-speech (POS) tagging is a popular Natural Language Processing process which refers to categorizing words in a text (corpus) in correspondence with a particular part of speech, depending on the definition of the word and its context. One of the oldest techniques of tagging is rule-based POS tagging. Rule-based taggers use a dictionary or lexicon for getting possible tags for tagging each word. If the word has more than one possible tag, then rule-based taggers use hand-written rules to identify the correct tag. Disambiguation can also be performed in rule-based tagging by analyzing the linguistic features of a word along with its pre-

ceding as well as following words' he said.

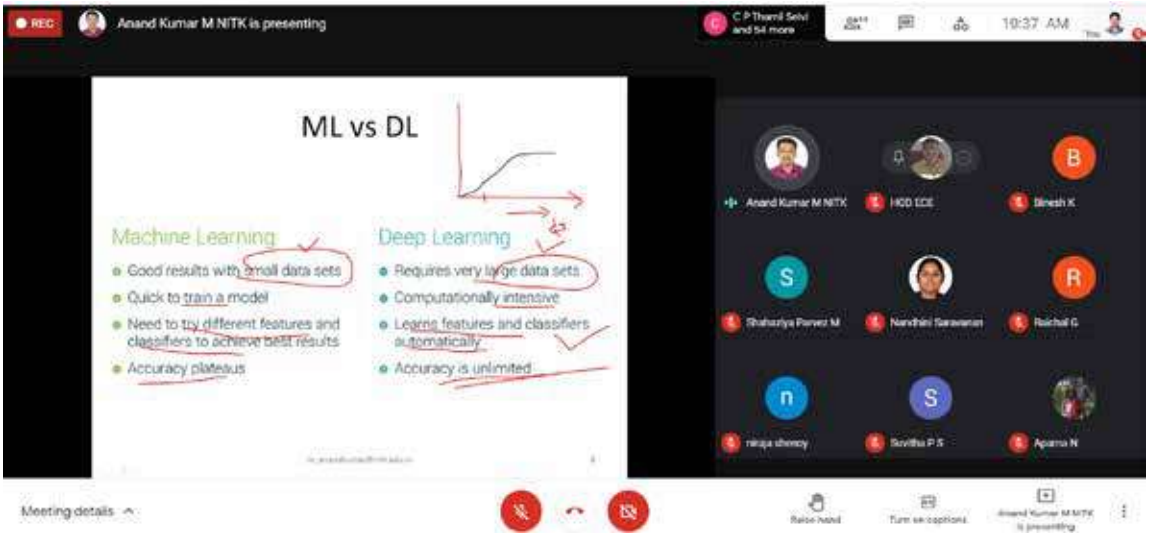


Dr. Anand Kumar M.
Asst. Prof. Gr I
Dept. of IT
NIT Suratkal

He explained the concept of Map Reduce for Machine Learning, which is MapReduce is a programming model and an associated implementation for processing and generating big data sets with a parallel, distributed algorithm on a cluster. A MapReduce program is composed of a map procedure, which performs filtering and sorting (such as sorting students by first name into queues, one queue for each name), and a reduce method, which performs a summary operation (such as counting the number of students in each queue, yielding name frequencies). The "MapReduce System" (also called "infrastructure"

or "framework") orchestrates the processing by marshalling the distributed servers, running the various tasks in parallel, managing all communications and data transfers between the various parts of the system, and providing for redundancy and fault tolerance.' He said.

'The model is a specialization of the split-apply-combine strategy for data analysis.It is inspired by the map and reduce functions commonly used in functional programming, although their purpose in the MapReduce framework is not the same as in their original forms. The key contributions of the MapReduce framework are not the actual map and reduce functions (which, for example, resemble the 1995 Message Passing Interface standard's reduce and scatter operations), but the scalability and fault-tolerance achieved for a variety of applications by optimizing the execution engine As such, a single-threaded implementation of MapReduce is usually not faster than a traditional (non-MapReduce) implementation; any gains are usually only seen with multi-threaded implementations on multi-processor hardware. The use of this model is beneficial only when the optimized distributed shuffle operation (which reduces network communication cost) and fault tolerance features of the MapReduce framework come into play. Optimizing the communication cost is essential to a good MapReduce algorithm' he said.



Session II - Emotional Capture and Speech Recognition of NLP using Machine Learning – Implementation



Dr. Anand Kumar M.
Asst. Prof. Gr I
Dept. of IT
NIT Suratkal

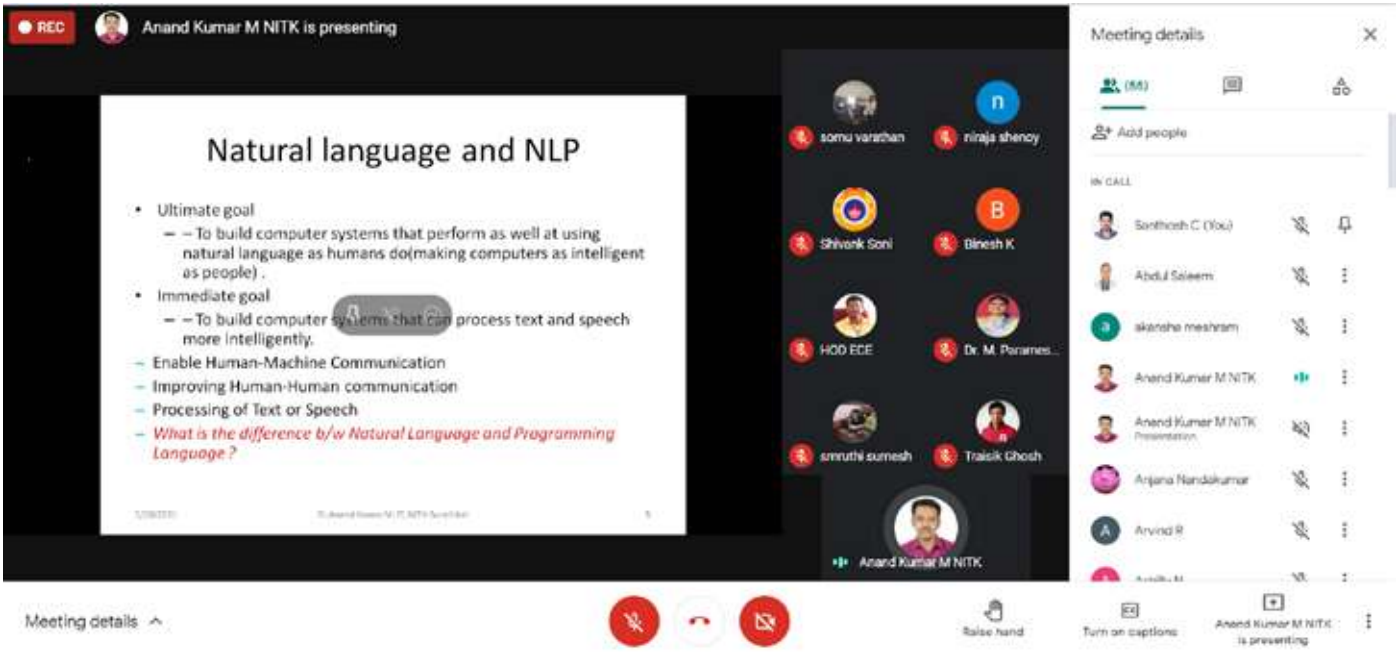
The session started by enumerating the benefits of machine learning techniques in speech recognition. He first mentioned the areas in which speech recognition is used and also he cited some examples. He said that Speech recognition is an interdisciplinary subfield of computer science and computational linguistics that develops methodologies and technologies that enable the recognition and translation of spoken language into text by computers. He also enumerated the areas in which speech recognition is used.

After enumerating the practical usage of speech recognition in natural language processing he explained the concept of machine learning in natural language processing. 'Deep Neural Network Solutions are unimpressive with small data sets but they shine as we increase data and model sizes. Here's the process we've looked at so far. We extract features from the audio speech signal with MFCC. Use an HMM acoustic model to convert to sound units, phonemes, or words. Then, it uses statistical language models such as N-grams to straighten out language ambiguities and create the

final text sequence. It's possible to replace the many tune parts with a multiple layer deep neural network.' He said.

In machine learning, pattern recognition, and image processing, feature extraction starts from an initial set of measured data and builds derived values (features) intended to be informative and non-redundant, facilitating the subsequent learning and generalization steps, and in some cases leading to better human interpretations. Feature extraction is related to dimensionality reduction.

When the input data to an algorithm is too large to be processed and it is suspected to be redundant (e.g. the same measurement in both feet and meters, or the repetitiveness of images presented as pixels), then it can be transformed into a reduced set of features (also named a feature vector). Determining a subset of the initial features is called feature selection. The selected features are expected to contain the relevant information from the input data, so that the desired task can be performed by using this reduced representation instead of the complete initial data.' He said.



Session III - Hands-on Workshop with LaTeX



Dr. Krishna Kumar Kishor
Vice Principal

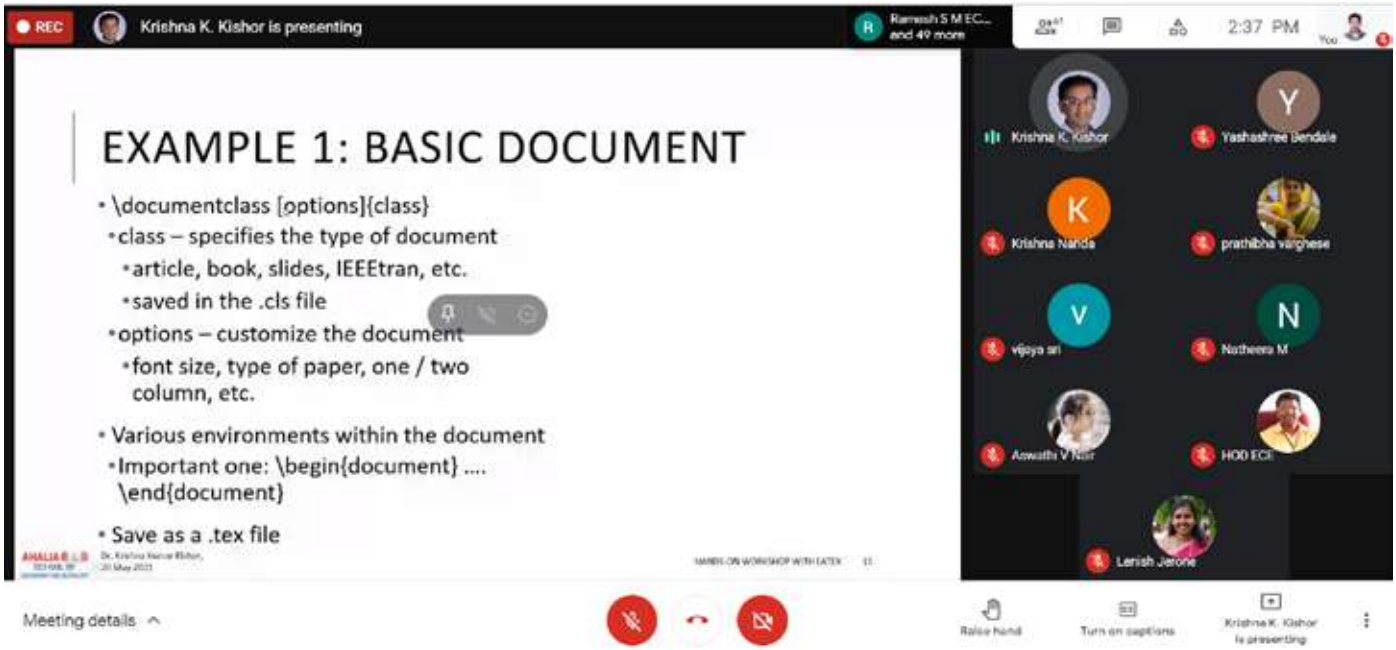
Session was started with an introduction of latex and its advantages over the other document making application. He explained the concept of latex programming with several examples. Initially he asked to install the latex software in participants' computers, also enumerated the steps to install the application. After that he started to explain the creation of a thesis and report using latex that includes the creation of titles, subtitles, index, addition of pictures and creation of bibliography.

"For writing math equations in LaTeX, there are two writing modes: the inline mode and the display mode. The inline mode is used to write formulas that are part of the text and the display mode is used to write expressions that are not part of the text and hence are put on different lines. And for adding images we need to use the graphicx package. To use it, we include the following line in the preamble: \usepackage{graphicx}.The command \graphicspath{ {./images/} } tells LATEX that the images are kept in a folder named images under the directory of the main document" . He detailed.

"The \includegraphics{universe} command is the one that actually included the image in the document. Here universe is the name of the file containing the image without the extension, then universe.PNG becomes universe. The file name of the image should not contain white spaces nor multiple dots." He explained.

At last, he explained the method to add bibliography. 'The environment thebibliography produces a list of references; such list will be titled "References" in an article document class, and "Bibliography" in book and report document classes. A parameter inside braces, 9 in the example, indicates the number of entries to be added; this parameter cannot be greater than 99. To cr-

eate a bibliography entry the command \bibitem is used. A parameter inside braces is set to label this entry and can later be used as identifier for this reference. After the closing brace the text with the name of the author, the book title, and publisher and so on is entered.' He spoke.



21st May 2021

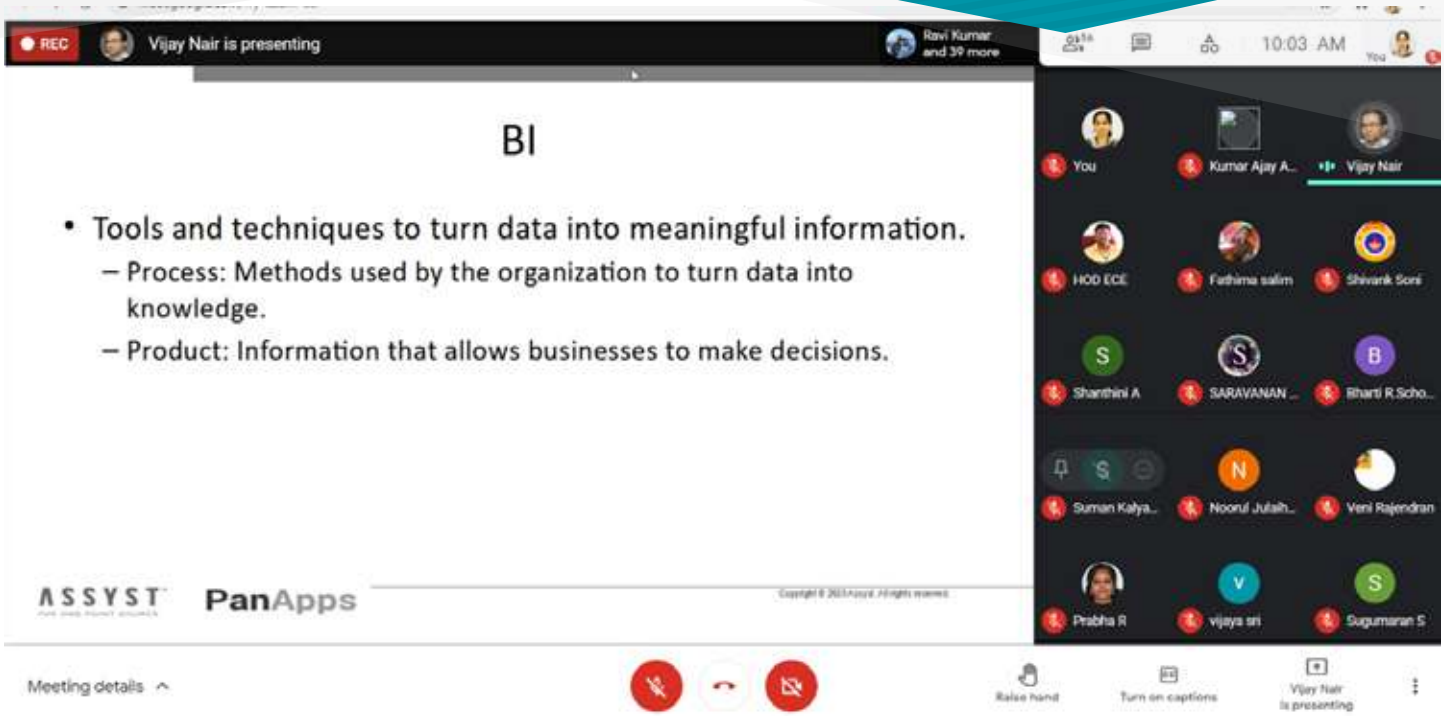
Session I - Advanced business intelligence and Internet of Things using machine learning
Session II - Image Processing and Medical Diagnosing using Machine Learning



Mr. Vijay Nair
CTO
Assyst Intl. Pvt Ltd.
Kochi

He started with a brief introduction. The Internet of Things (IoT) applications have grown in exorbitant numbers, generating a large amount of data required for intelligent data processing. However, the varying IoT infrastructures (i.e., cloud, edge, fog) and the limitations of the IoT application layer protocols in transmitting/receiving messages become the barriers in creating intelligent IoT applications. These barriers prevent current intelligent IoT applications to adaptively learn from other IoT applications. Finally, he discussed the key factors that have an impact on future intelligent applications for the IoT.

The Internet of Things (IoT) paradigm is both revolutionary as well as an enabler of automated and convenient lifestyles for modern day humans. The evolution of the IoT can be attributed to a confluence in advances that took place over the past decade in computing, communication, and application design. The resulting sphere of influence of IoT has expanded rapidly to cover the whole human race. IoT devices in common use to facilitate our daily activities include the smart phones, home assistants such as Google Play, smart vehicles, building automation systems comprising smart elevators and temperature control systems, and unmanned aerial vehicles such as drones for environmental monitoring and leisure. The large-scale proliferation of IoT devices stretch beyond these devices to within the storage centers such as back-end cloud facilities which are geographically dispersed. As a result, a large volume of data is generated by IoT devices and their supporting platforms, for transfer and subsequent storage and processing at back-end cloud storage centers. IoT devices generate a constant stream of raw data, which cannot be discerned for meaningful knowledge unless the data are processed through application of techniques such as knowledge discovery and machine intelligence. The heterogeneity of the data generated from various IoT deployments is dependent on the application domain, comprising, smart healthcare, social media, e-agriculture, e-health, smart electricity grids, and smart vehicles. IoT devices are designed with custom protocols that consider the resource constrained nature of these devices, in order to preserve power usage associated with device operations. The most common IoT application-layer protocols are Constrained Application Protocol (CoAP), Message Queuing Telemetry Transfer (MQTT), Advanced Message Queuing Protocol (AMQP), and HyperText Transfer Protocol (HTTP).



The MQTT and AMQP protocols are deployed on IoT devices with access to a continuous power supply, or to a renewable power source. Such protocols facilitate transfer of longer messages and are thus more power-hungry. On the other hand, the CoAP protocol is light-weighted and is designed for highly resource-constrained IoT devices; where resource-constrained devices are those that have very limited computing resources and network bandwidth. HTTP protocol is the most resource-intensive IoT communication protocol and is best suited for higher end IoT devices, possessing higher communication, computation, and storage capabilities. IoT devices produce a large volume of data that is locally processed, in limited manner, and transferred to a centralized computing node or a cloud storage facility, where it can be further processed or analyzed to produce knowledge. Machine learning is defined as a family of techniques for analyzing data, wherein the process of model building on training data is automated, i.e., requires little to no human intervention.

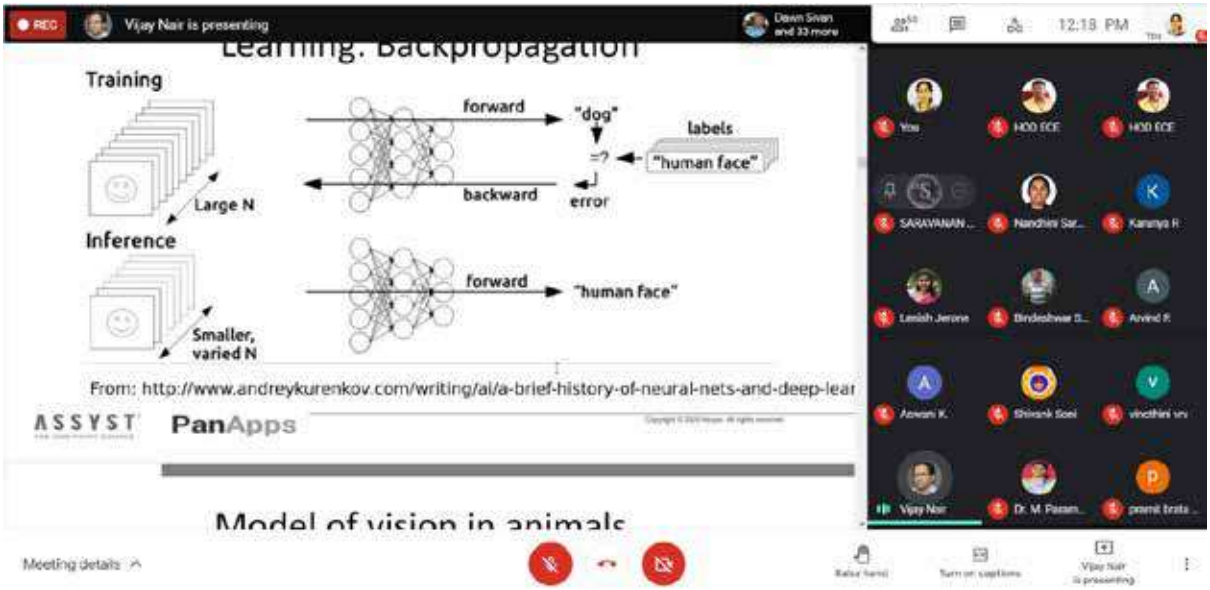
Consequently, the process of categorizing data into various classes is fully automated. The role of data analytics for IoT data processing cannot be understated, and machine learning is a very strong contributor to facilitate quick processing of large volume data emerging from IoT devices, for generating patterns of interest to analysts of the data. Contemporary computation and storage paradigms comprise cloud, fog, and edge computing. Through integration of these paradigms with the IoT, a robust data collection, storage, processing, and analytics framework emerge. Such a framework has the ability to provide real-time insights into data patterns and also facilitates the application of machine learning techniques for realizing intelligent data analytics for the IoT.

The second session started with an introduction to medical image processing.Machine learning approaches are increasingly successful in image-based diagnosis, disease prognosis, and risk assessment. He highlighted new research directions and discusses three main challenges related to machine learning in medical imaging: coping with variation in imaging protocols, learning from weak labels, and interpretation and evaluation of results. Supervised learning techniques, which learn a mapping from input data to output (labels) from a set of training examples, have shown great promise in medical image analysis. Pattern classification has been used for decades to detect, and later characterize, abnormalities such as masses in mammograms and nodules in chest radiographs based on features describing local image appearance. With improvements in computer hardware, it has become feasible to train more and more complex models on more data, and in the last few years, the use of supervised learning in image segmentation, recognition, and registration has accelerated.

Trained appearance models are replacing simple intensity and gradient models as a component in segmentation systems, and statistical shape models that describe the typical shape and shape variations in a set of training shapes have replaced free form deformable models in many cases. Several new methods learn to diagnose in a data driven manner, using multivariate classification or regression to directly map from imaging data to diagnosis. These techniques are not restricted by current knowledge on disease-related radiological patterns and often have higher diagnostic accuracy than more traditional quantitative analysis based on simple volume or density measures. Supervised quantification approaches can not only assist in dia-

gnosis, but are also increasingly used to predict future disease onset or progression. Models are then trained on data from longitudinal studies in which the disease status years after the acquisition of the baseline image is known. Also used multivariate sparse Cox regression to take time to event into account in the model and found that changes in plaque texture and volume in ultrasound images of the carotid artery could predict future vascular events better than traditional risk factors could.

Machine learning approaches appear to be taking over the field and are increasingly successful in image-based diagnosis, disease prognosis, and risk assessment. Many scientific and practical challenges still need to be addressed to unlock their full potential, including how to train strong models on little data, how to improve access to data, how to best make use of the image structure and particularities of medical imaging data in designing models, how to interpret results, and how to apply these results in clinical practice.With this he concluded the session.



Session III - Brain Tumor Detection using Deep Learning Techniques



Dr. U. S. Ragupathy
Prof. - EIE
Kongu Engg. College, Erode

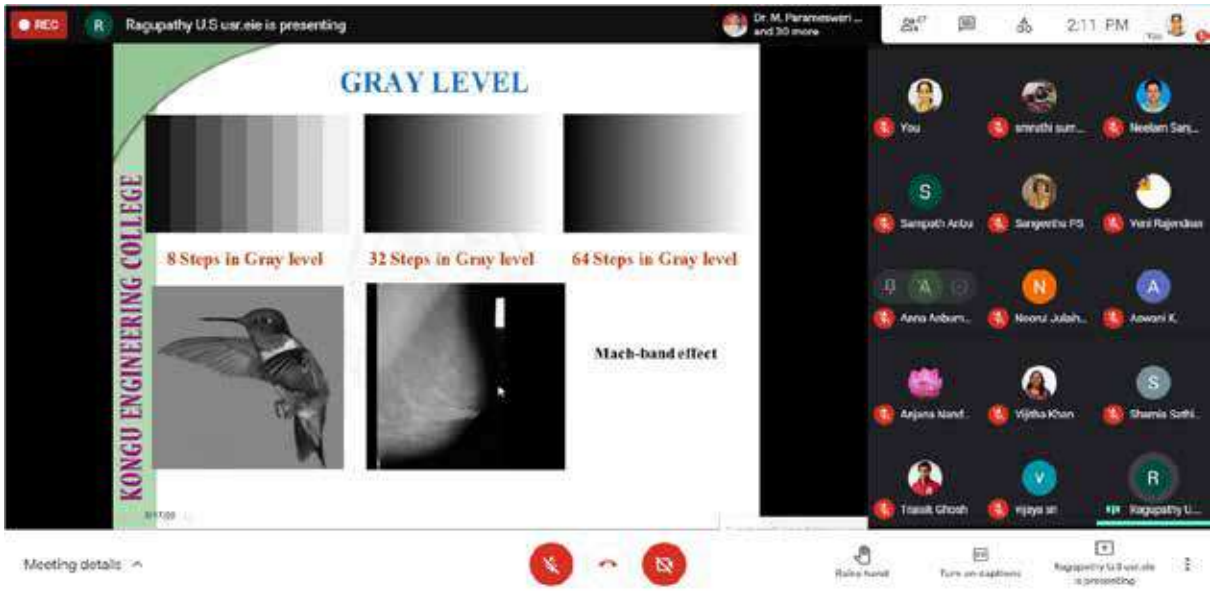
The following concepts were covered in the session. He started the session by explaining Deep learning which is a new challenge for all types of well- known applications such as Speech recognition, Image processing and NLP. Deep learning uses neural networks to learn useful representations of features directly from data. It uses a pertained neural network to identify and remove noise from images.

He gave introduction to deep learning in medical image processing, proceeding from theoretical foundations to applications, discussed general reasons for the popularity of deep learning, including several major breakthroughs in computer science. He reviewed the fundamental basics of the perceptron and neural network. Medical image processing is one of these areas which has been largely affected by this rapid progress, in particular in image detection and recognition, image segmentation, image registration, and computer-aided diagnosis. Discussed recent trends in physical simulation, modeling, and reconstruction that have led to astonishing results. The convolutional neural network (CNN) is a class of deep learning neural networks. CNNs represent a huge breakthrough in image recognition. They're most commonly used to analyze visual imagery and are frequently working behind the scenes in image classification.

An accurate Image segmentation is very important in image processing. The main purpose of the image segmentation is to partition the original image into uniform regions. Image segmentation can be applied as the pre-processing stage for the other image processing techniques. There are several techniques for segmentation MR image in image processing.

Image segmentation for bio-medical images has become basic fundamental process to perform significant quantitative search to determine the human organs, defected tissues etc. Image data augmentation is a technique that can be used to artificially expand the size of a training dataset by creating modified versions of images in the dataset. Image data augmen-

tation is used to expand the training dataset in order to improve the performance and ability of the model to generalize. For increased accuracy, image classification using CNN is most effective. The most common image data input parameters are the number of images, image dimensions, number of channels, and number of levels per pixel. Evaluate the performance of the GPU on a number of common algorithms used for three-dimensional image processing. The implemented algorithms include spatial transformations, real-space and Fourier operations, as well as pattern recognition procedures, reconstruction algorithms and classification procedures. MRI images are used to diagnose tumor in the brain. In this work, automatic brain tumor detection is proposed by using Convolutional Neural Networks (CNN) classification. The deeper architecture design is performed by using small kernels. The weight of the neuron is given as small.Dr.U.S. Ragupathy concluded his session by discussing the recent trends and applications of Deep Learning Techniques and methods to detect brain tumor.



22nd May 2021

Session I - Deep Learning and Blockchain technology. - AICoin, bitcoin, Deep Brain Chain-implementation



Dr. Prasant R. Nair
IQAC Coordinator &
Asso. Prof. - CSE
Amrita Vishwa Vidyapeetham
Coimbaotre

The Second session was about Deep Learning and Blockchain technology, AICoin, bitcoin and Deep Brain Chain. He started the session with basics of deep learning and artificial intelligence, after that he explained about blockchain technology '.A blockchain is a growing list of records, called blocks,that are linked together using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data (generally represented as a Merkle tree). The timestamp proves that the transaction data existed when the block was published in order to get into its hash. Blocks form a chain, with each additional block reinforcing the ones before it. Therefore, blockchains are resistant to modification of their data because once recorded, the data in any given block cannot be altered retroactively without altering all subsequent blocks.' he said.

After that he enumerated the applications of Blockchain technology such as bitcoins, big data etc. the he explained the advantages, 'By storing data across its peer-to-peer network, the blockchain eliminates a number of risks that come with data being held centrally. The decentralized blockchain may use ad hoc message passing and distributed networking. One risk of a lack of a decentralization is a so-called "51% attack" where a central entity can gain control of more than half of a network and can manipulate that specific blockchain record at-will, allowing double-spending.

At the end of the session he had given an idea about the bit coins and Alcoins, 'Bitcoin ( ) is a decentralized digital currency, without a central bank or single administrator, that can be sent from user to user on the peer-to-peer bitcoin network without the need for intermediaries. Transactions are verified by network nodes through cryptography and recorded in a public distributed ledger called a blockchain. The cryptocurrency is vented in 2008 by an unknown person or group of people using the

name Satoshi Nakamoto. The currency began to use in 2009 when its implementation was released as open-source software.' He spoke.



Session II - Probabilistic Models in ML for Recommendation System and Healthcare with Applications



Dr. J. Somasekar
Prof. & HoD - CSE
Gopalan College of Engg. & Mgt.
Banglore

The Second session was about Probabilistic Models in ML. He started with introduction to ML and detailed study on Baye's therorem. Bayes' theorem allows the risk to an individual of a known age to be assessed more accurately (by conditioning it on their age) than simply assuming that the individual is typical of the population as a whole. One of the many applications of Bayes' theorem is Bayesian inference, a particular approach to statistical inference. When applied, the probabilities involved in the theorem may have different probability interpretations. With Bayesian probability interpretation, the theorem expresses how a degree of belief, expressed as a probability, should rationally change to account for the availability of related evidence. Bayesian inference is fundamental to Bayesian statistics.

He pointed out that Baye's theorem is the basics of evaluation process. In machine learning, a probabilistic classifier is a classifier that is able to predict, given an observation of an input, a probability distribution over a set of classes, rather than only outputting the most likely class that the observation should belong to. Probabilistic classifiers provide classification that can be useful in its own right or when combining classifiers into ensembles. The session concluded with some applications of medical data.



Session III - Feedback and Assessment



Dr. V. Balamurugan
Prof. & HoD -ECE
ASET

Third session was handled by Dr.V.Balamurugan, HOD (ECE), Ahalia school of Engineering and Technology. The topic was "Importance of Assessment and Feedback". He discussed the importance of evaluation of feedback in the workplace. He mentioned some important points regarding feedback such as it provokes change and fuels growth, it gives people a sense of purpose, it improves employee engagement and it helps improve working relationships.

He pointed out the significance of Assessment as a critical step in the learning process, it determines whether o the course's learning objectives have been met o. He emphasized that assessment has an important role in education and it has a critical role in the teaching process. Through appropriate assessment, teachers can classify and give feedback and structure their teaching accordingly. Recently, educators and scientists are also giving significance in assessment. "The assessment process affects both organizers and participants, significance and consideration should be given to assessment procedures. A learner centric technique supports the perception that participants should be active members of a course, It can be said that assessment is a procedure and involves information and data regarding the development of any learning and teaching activity." he said.

VALEDICTORY FUNCTION

On the valedictory session, the chief guest was Prof. Vijay.D.Vaidya, Executive Secretary ISTE, New Delhi. Dr. P.R. Sreemahadevan Pillai , Principal, Ahalia School of Engineering and Technology, presided over the function. Dr. Krishna Kumar Kishor, Vice-Principal, Ahalia School of Engineering and Technology felicitated the gathering. Dr. V.Balamurugan, Coordinator of the programme, proposed the vote of thanks. The programme was concluded at 3.45pm



WORKSHOP BY ASET NSS UNIT

NSS Unit of Ahalia School of Engineering and Technology in association with Mahatma Gandhi National Council for Rural Education, Government of India organized a workshop on Guidance on Psychosocial Skills to Helpers and Support to Community during Pandemic. 110 students actively participated in the workshop and made it a worthwhile event. The program was coordinated by Mr.Roshan Sanu Y (NSS Program Officer, ASET) and Ms.Bindu Valoor (Ahalia School of Management).





NSS Unit of Ahalia School of Engineering and Technology organized a State Level online awareness program "Workshop on Rainwater Harvesting" on 12.06.2021(Saturday), 7.15 PM to 8.15 PM. The program started with NSS Song by NSS Volunteer. Mr. Roshan Sanu.Y (NSS Programme Officer, ASET) delivered the welcome speech. Then Dr. P.R.Sreemahadevan Pillai (Principal-ASET and Director-Ahalia Group of Academic Institutions) delivered the presidential address. Felicitations were delivered by the APJAKTU NSS CELL State Coordinator Dr.Joy Varghese. Then Aswin U(NSS Volunteer, ASET) introduced the trainer. After that the Resource Person Dr. Nisam Rahman (Chairman, Innovation and Research Society) led the session which included various methods for Rainwater Harvesting in our houses. Dr.V.S Gopal (Chairman, Ahalia International Foundation) also participated in the program. After the session, Ms. Vijitha Khan (Associate NSS Programme Officer, ASET) delivered the Vote of Thanks. The program ended with the National Anthem.

WORKSHOP ON LATEX



Vignesh D.
Asst. Prof. - S&H

Department of EEE & Ahalia Palakkad ISTE chapter organized a two day workshop on latex on 29th & 31st may 2021. The program was attended by eighth semester and sixth semester B-Tech students. The resource person for the Workshop was Mr. Vignesh D., Assistant Professor (S&H), Ahalia School of Engineering and Technology. LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.

The main objective of the workshop is to make the participants aware about LATEX. By the end of the workshop, the participants will be confident enough to do their documents using LATEX.

Day 1

The following topics were discussed.

- Introduction to LATEX- why LATEX?
- Basic Document Creation using Overleaf- changing the class (article, report) - section, subsection- chapter, paragraph, subparagraph- generating table of contents
- Formatting the Document- special characters- dashes and hyphens- spacing and newline- footnote- formatting (bold, italic, underline, emph)- itemize and enumerate- flush left and right-writing abstracts
- Advanced Topics- tables- mathematics- equations- Greek letters- equation numbering- vectors, using different packages
- Graphics- inserting image- giving caption and label
- Referencing- create references.

Day 2

Hands on practice session were conducted for all the participants. The students got the opportunity to have a hands on session on what they have studied and to clarify their queries on the same. Overall, the sessions were helpful for the students to take up their project report in LATEX as reviewed from the feedback received.

The co-ordinator of the program was Mrs. Sowmya S., Assistant Professor, EEE Department. Veenaa Raj, Assistant professor, EEE – Department. Overall twenty eight students attended the workshop.

WORLD ENVIRONMENT DAY CELEBRATIONS

Ahalia School of Engineering and Technology along with the National Service Scheme (NSS) Unit of Ahalia School of Engineering and Technology celebrated 'World Environment Day' on 05 June 2021. The volunteers of NSS actively participated in tree plantation drives to make their surrounding green. The theme resolute for the World Environment Day 2021 is 'Reimagine. Recreate. Restore' and its focal point is ecosystem restoration. Various activities were conducted to celebrate this year's World Environment Day.



WEBINAR ON BEYOND THE SYLLABUS

The Civil Engineering Association along with The Institution's Innovation Council conducted a webinar on the topic "Beyond the syllabus" on 26.05.2021. The session was handled by Dr. C.K. Subramania Prasad, Retired Professor and Head of the Civil Engineering Department, NSS College of Engineering, Palakkad. In the session, he discussed about the importance of thinking beyond the syllabus which he described as the process of adding value to education. He also emphasized the importance of taking part in co-curricular activities like paper presentations, group discussions, journal publications etc. He also urged the students to keep adding to their vocabulary by listening to news channels and referring the dictionary. He also advised the students to participate in extracurricular activities. The speaker also said that Entrepreneurship and Engineering are the two buzz words in any type of learning. The idea of entrepreneurship is to try and never give up and to think out of the box. The session was highly interactive and inspiring. A total of 80 participants attended the event.



WEBINAR ON HOW TO READ STRUCTURAL DRAWINGS

The Department of Civil Engineering Association organized a webinar on the topic "How to read structural drawings" on 29.05.2021. The session was handled by Er. Dileep Das K, Project Engineer, Ahalia Projects, Palakkad. In the session, he explained how to read a structural drawing. He explained about the practical aspects of Civil Engineering. He emphasized the importance of handling structural drawings. He explained the detailing of beams and columns. The session was highly inspiring. A total of 55 participants attended the event.



WEBINAR ON SCOPE OF ENGINEERS IN BIM

The event was organized by the Civil Engineering Dept. associated with Core Institute of Technology, Palakkad, to understand the BIM software, a construction management and execution tool used in civil engineering construction. The Webinar was inaugurated by our beloved Principal Dr. Sreemahadevan Pillai at 3 p.m. on 14.06.2021. BIM coordinator of Core Institute of technology, Mr. Aji K. Rajan was the Resource Person for the session. He discussed the core topics of BIM in the construction industry and its job opportunities. He started the session by explaining the engineering life cycle to students and its key factors such as concept, budget, designing, drafting, procurement, planning, execution and inspection. He also emphasized the basics qualities of an engineer. In the next section, he displayed the main features of BIM which includes Programming, conceptual design,
detailed design, analysis, documentation, fabrication, construction of 4D/5D, construction logistics, operation and maintenance, demolition and renovation. The need for BIM in civil engineering to investigate multiple scenarios and providing data-driven assurance of projects was also discussed. The difference in data execution of 3D and 4D BIM software was projected with key features. Altogether it was a fruitful two-hour session that helped
students in BIM exposure and to get an idea about career prospects in BIM. The event concluded with a thanks note by Anagha K. P. of the final semester Civil engineering dept.

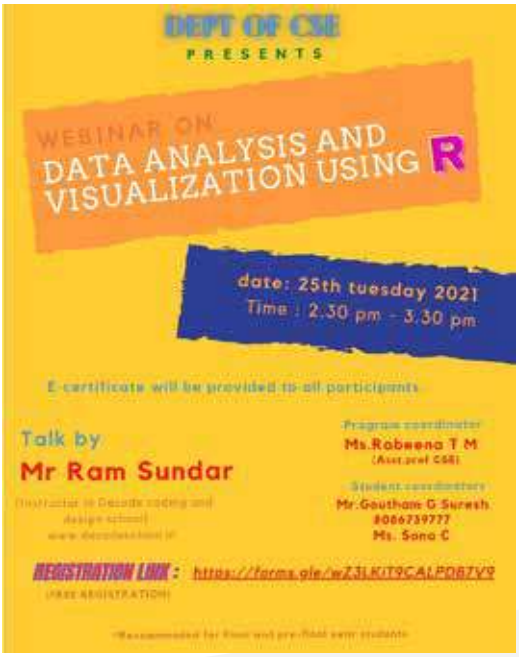


WEBINAR ON DATA ANALYSIS AND VISUALIZATION USING R

The event is a webinar on the topic "Data analysis and visualization using R" delivered by Mr. Ram Sundar of Decode Coding and Design School. The speaker clearly defined the various steps in data analysis process and given a good introduction to the language R. The programme was attended by 55 students from second and third year.



Ram Sundar
Decode Coding &
Design School



PAINTING COMPETITION

The Celebration of 75 years of India's Independence -"Azadi Ka Amrut Mahotsav" would commence 75 weeks prior to Independence Day 2022 and would extend up to Independence Day 2023. In this connection, the Department of Science and Humanities, Ahalia School of Engineering and Technology, Palakkad is organized an online painting competition entitled National Anti-Terrorism on 21st may 2021 for the B.Tech students. In this event five students from Ahalia School of Engineering and Technology were actively participated. First Prize secured by Sneha Krishna of first year Electronics and Communication Engineering department, Ahalia School of Engineering and Technology and second prize secured by Sreesha V of first year Electronics and Communication Engineering department, Ahalia School of Engineering and Technology.



Sneha Krishna
S2 - ECE



Sreesha V.
S2 - ECE

REVENTON 2021 - WEBINAR SESSIONS

ASET Innovation and Entrepreneurship Development Center (IEDC), and ASET Institute's Innovation Council (IIC) organized a webinar session - 'REVENTON 202' in june 2021, with the support of Kerala Startup Mission (KSUM).

MEET THE INNOVATOR



The speaker focused on the importance of becoming an entrepreneur. He described about the hurdles in the start up journey and also about the perks in the same

START NOW



The speaker elaborated about the relationship between our surroundings and the business ideas.He also encouraged the students to respect our nation and to come up with ideas that will make our country to flourish.

AUXILIA



The session mainly focused on various funding opportunities available for early stage entrepreneurs. The speaker emphasized on the importance of awareness about the schemes available from the government.

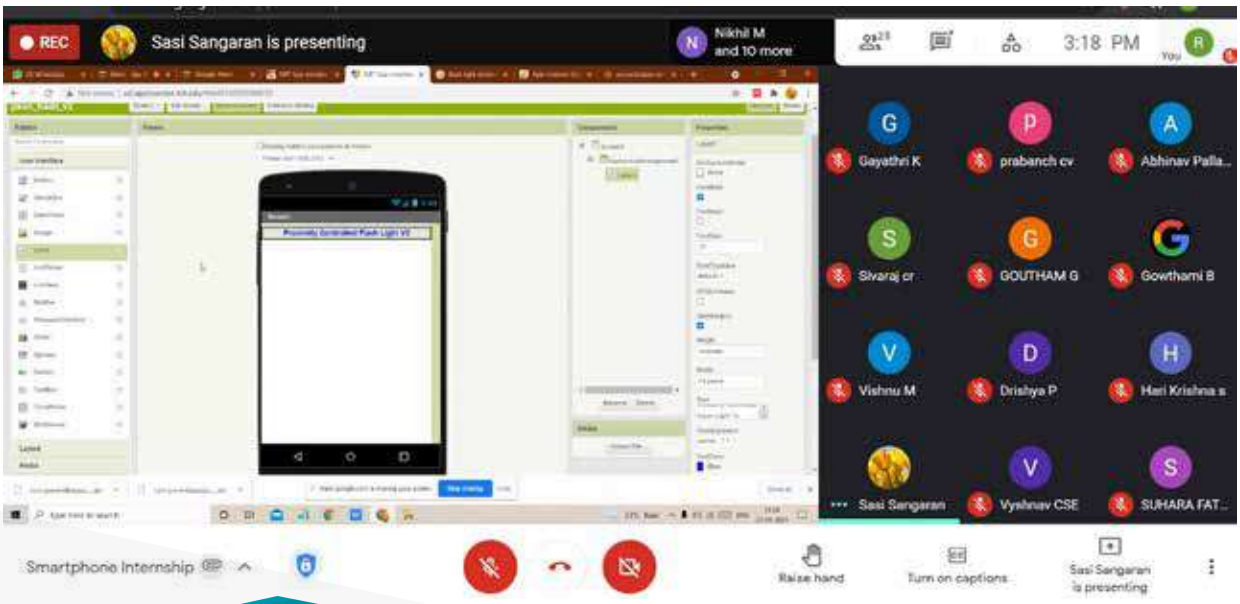
MEET THE ENTREPRENEUR REVENTON



The speaker encouraged the students to take up risks in their study period itself and to utilize every opportunity to make a good team with like minded people. He encouraged the participants to come out of the comfort zone so that progress will be ensured.

INTERNSHIP ON CONFIGURE YOUR SMARTPHONE SENSORS

The Department of Computer Science and Engineering, ASET conducted an internship program on the topic - "Configure Your Smartphone Sensors - Do It Yourself" from 20.05.2021 to 24.05.2021. The program was led by Mr.D.K.Sangaran, Embedded Design Engineer, Weathercaps Pvt. Ltd., Coimbatore. The program was inaugurated by Dr. S.Gunasekaran (HoD/CSE). The program included hands-on training session for the students in which various android applications were developed by them through which various sensors in the smartphones are accessed. Some of them included applications which controls the proximity sensor, accelerometer, flashlight, light sensor, step counter etc. in a smartphone. Students were able to develop the applications in an easy and efficient manner. 28 students from Third year CSE participated in the program. The faculty coordinator was Mr. Roshan Sanu.Y (AP/CSE) and the student coordinator was Akshith. K.M(S6CSE).



WEBINAR ON CERTIFICATE GENERATION USING AUTOCRAT

The IEEE Student Branch in association with the IEEE APS SBC, IEEE RAS SBC and IEEE WIE SB AG of Ahalia School of Engineering and Technology, Palakkad organized a webinar titled "Certificate Generation Using Autocrat" on 05 June 2021. A total of 78 participants attended the program (24 IEEE members and 54 non-IEEE members). The resource person for the webinar was Dr. Krishna Kumar Kishor (IEEE Student Branch Counsellor, Vice-Principal, Ahalia School of Engineering and Technology). The session gave a hands-on training on how to generate and email a bulk number of certificates using the Autocrat add-on. This event was coordinated by Mr. Anirudh K. (2nd year ECE) and Mr. Vishnu Venugopalan (1st year ECE).



Dr. Krishna Kumar Kishor
Vice Principal

WEBINAR - ANEMIA CAMPAIGN 12 PROGRAM

National Service Scheme Unit of ASET organized a Health Awareness Webinar - "Anemia 12 Campaign Program" in association with Unnat Bharat Abhiyan and ICDS, Malampuzha Block, on 20.06.2021 (Sunday) from 12 PM to 1 PM through Google Meet. The program was intended for the NSS and UBA volunteers of ASET. The program started with an NSS Song by Anjana.R (NSS Volunteer). Then Swetha.S(NSS Volunteer) delivered the Welcome Speech. After that Dr. P.R.Sreemahadevan Pillai(Principal-ASET and Director-Ahalia Group of Academic Institutions) delivered the Presidential Address. After that the session was handed over to the ICDS Supervisors. At first, Smt. Latha C.R(ICDS District Programme Officer-Palakkad) addressed the gathering. Then the awareness session was led by the presentation of Resource person Smt.Limi Lal T M(ICDS Supervisor) and Moderator Smt.Vanaja(ICDS Supervisor). After the session Aswin.U(NSS Volunteer) delivered the Vote of Thanks. The session ended with the National Anthem. 82 Volunteers from NSS and UBA participated in the program.

Resource Person



Limi Lal T. M.
ICDS Suprvisor

Moderator



Vanaja
ICDS Supervisor

LIST OF PRESENTATIONS IN THE CONFERENCES, FDP, WEBINARS BY THE FACULTY MEMBERS

1. Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered the key note address on "World Environment Day Celebration", jointly organized by department of postgraduate studies and research in botany & Ecoclub, on 05-06-2021 organized by Sanatana Dharma College, Alapuzha.

2. Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an invited lecture on **കൊറോണക്കാലത്തെ ജൈവസംരക്ഷണം**" on 05 June, organized by NSS Technical Cell, SSM Polytechnic College, Tirur

3. Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an invited lecture on "Development Vs Environment: The Civil Engineering perspective" on 10-06-2021 organized by Government College of Engineering, Kannur.

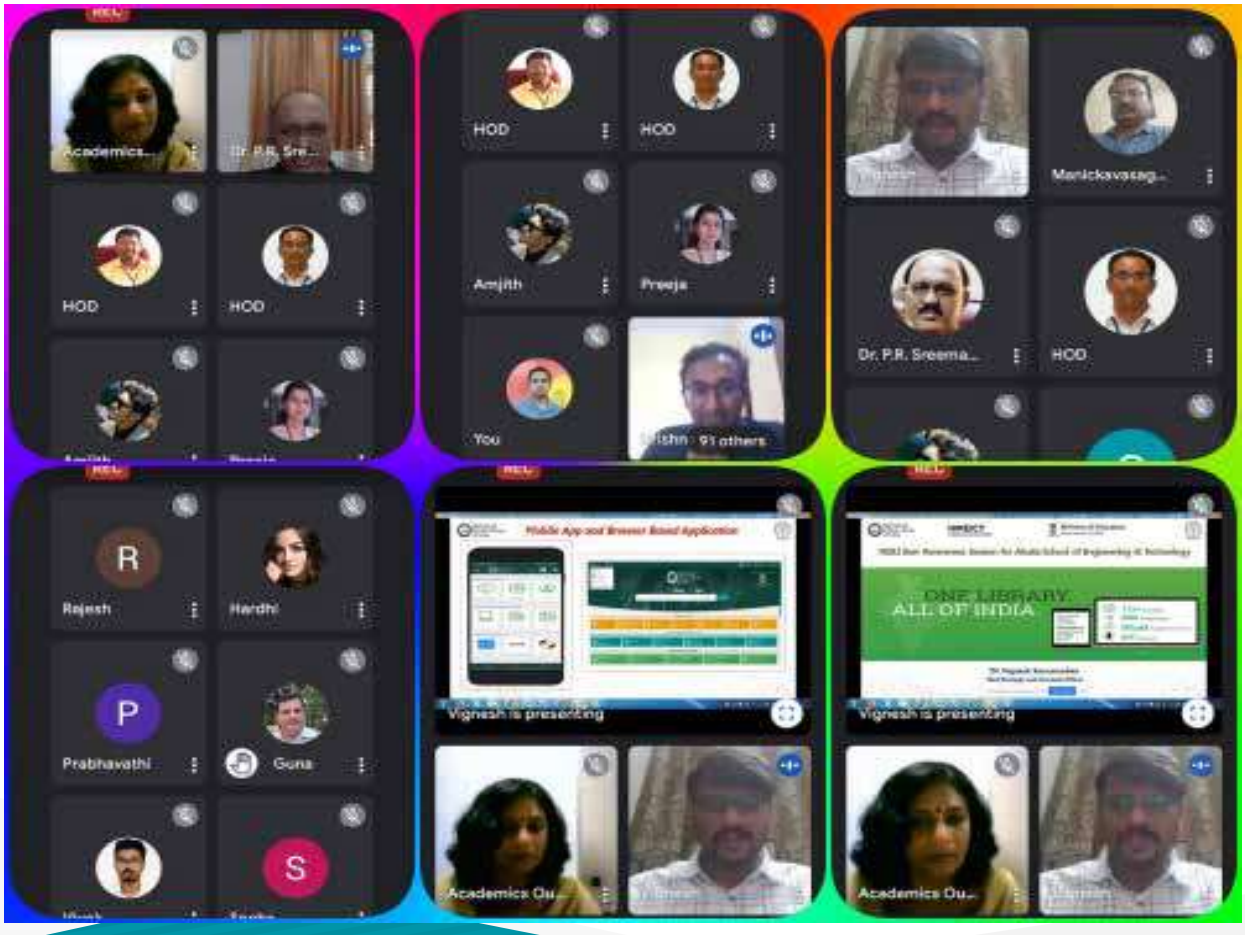
NATIONAL WEBINAR ON AWARENESS OF NDLI (NATIONAL DIGITAL LIBRARY OF INDIA)

Ahalia School of Engineering and Technology & ASET NDLI CLUB in collaboration with IIT, Kharagpur,West Bengal organized a National Level Webinar on "Awareness of NDLI (National Digital Library of India)" for Students, Faculty members and Staff from various Colleges on June 18, 2021 from 3.30 – 4.30 pm.

The webinar commenced with the welcome address delivered by Mrs. Bindu Valoor, Manager – Academics Outreach, Ahalia Group. Dr. P.R. Sreemahadevan Pillai , Principal , Presided over the function and give the presidential address . Dr. Krishna Kumar Kishor give the felicitation address. Dr. V.S. Gopal (Chairman, Ahalia International Foundation) also participated in the program.
Mrs. Bindu Valoor introduced the Resource Person, Dr. Vignesh Sornamohan, Chief Strategic and Outreach Officer, National Digital Library of India, IIT Kharagpur.

Dr. Vignesh Sornamohan introduced us to the beginnings of NDLI – he said it had been launched by the Ministry of Education, New Delhi and IIT, Kharagpur is the implementing institution. In his presentation, the Resource Person elaborated upon NDLI and its features, as well as the wide range of e-resources made available on NDLI Platform. He explained Use-Models of Content Access, Web Content Harvesting, NDLI Repository, Content contribution and Learning Management System. He demonstrated how NDLI e-resources could be browsed by type, subject, and sources. He also demonstrated how users could access different types of Learning Resources such as E- articles, audio lectures, e-books, Question papers, Theses, and Video Lectures. He emphasized that NDLI has taken special care of young students during the COVID-19 pandemic by offering e-resources for students of CBSE class 9,10 11 and 12. Participants were shown how to install NDLI App on their phones through Playstore. He also discussed how to Form an NDLI club in the institute. He said NDLI-Club is a platform for conducting learning-oriented events, both online and offline. He also discussed the benefits which students will get on joining the club.

The program gets over with the Vote of Thanks delivered by Dr. Balamurugan V, Professor & H.O.D – ECE Department, Chairman Library Committee. The event was coordinated by Mr. Lal S., Librarian, Aset , Mrs. Bindu Valoor, Manager, Academics outreach, Ahalia Group & Mr. Rajesh. P. Admin. Assistant, Aset. A total of 155 participants participated in the event.



KEAM COACHING 2021



Ahalia School of Engineering and Technology is conducting free coaching for Kerala Engineering, Architecture and Medical (KEAM) entrance examination preparation. The inauguration of KEAM Coaching 2021 was held on 20th June 2021. The inauguration commenced with the welcome address delivered by Dr. Binoy Balan, HoD – S& H, Ahalia School of Engineering and Technology, Dr. P.R. Sreemahadevan Pillai , Principal , Ahalia School of Engineering and Technology Presided over the function and gave the presidential address . Dr. Krishna Kumar Kishor, Vice Principal, Ahalai School of Engineering and Technology gave the felicitation address. Dr. P.C. Reghu Raj Principal, Government engineering College Palakkkad, Was the Chief Guest for the Event and gave the inaugural address. The program gets over with the Vote of Thanks delivered by Prof. Prakash, HoD – ME department. The event was coordinated by Mrs. Bindu Valoor, Manager, Academics outreach, Ahalia Group . The classes will begin on 20 June 2021. A free mock online entrance exam will be conducted on 18th july 2021.

For free online KEAM Mock Test contact Bindu Valoor - 9496000133., Sreejith P. B - 9447721311



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ALUMNI REMINISCENCE

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Aysha Thahsin Z.
2015-2019 - CSE
5th rank holder of A
PJAKT University in 2019

Greetings!!!

I am Aysha Thahsin of the 2015-19 KTU batch of CSE department. Hope you are doing good and convey my greetings to ASET family.

I am writing this message to you with utmost gratitude after passing out from ahalia in July 2019. For the past 1 and half year I am working in edutech field in UAE (DUBAI). Initially I started off as a course trainer, later on I took some certification on the field. Recently I got an opportunity in a company as a curriculum specialist and course designer. Yesterday was my product launch presentation and it was a dream come true moment for me to present a curriculum for coding courses like python and game development that was designed by me. The presentation was a success and I got a good appreciation.

I want to share this moment of my long term goal to those people who gave me determination to achieve something like this.

I would like to extend my sincere thanks to you and all other faculties of aset, special thanks to cse department and IEDC cell that played a major role in ideation of my product.

With regards,
Aysha Thahsin Z

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ASET NEWS

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Ahalia School of Engineering & Technology

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Grow as a centre of learning and research, transforming students to professionals with knowledge, skill,competence, commitment, confidence and ethics to serve the society

Mission

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

PRINCIPAL'S MESSAGE

World Environment Day 2021



Dr. P. R. Sreemahadevan Pillai
Principal

The United Nations Environment Programme (UNEP) annually organizes events for World Environment Day, which encourages worldwide awareness and action for the protection of the environent.It is celebrated on 5 June in over 100 countries.This year's observance of World Environment Day will be on the theme of 'ecosystem restoration' and focus on resetting our relation with nature.It will also mark the formal launch of the UN Decade on Ecosystem Restoration 2021-30 .World Environment Day is the United Nations' principal vehicle for encouraging worldwide awareness and action for the environment. Held annually since 1974, the Day has also become a vital platform for promoting progress on the environmental dimensions of the Sustainable Development Goals (SDGs). With the United Nations Environment Programme at the helm, over 150 countries participate each year. Major corporations, non-governmental organizations, communities, governments and celebrities from across the world adopt the World Environment Day brand to champion environmental causes.

The UN General Assembly has declared the years 2021 through 2030 as the UN Decade on Ecosystem Restoration. Led by the UNEP and the Food and Agriculture Organization (FAO) of the United Nations together with the support of partners, it is designed to prevent, halt, and reverse the loss and degradation of ecosystems worldwide. It aims at reviving hundreds of millions of hectares, covering terrestrial as well as aquatic ecosystems. A global call to action, the UN Decade draws together political support, scientific research, and financial muscle to massively scale up restoration.UNEP is the leading global voice on the environment. It provides leadership and encourages partnership in caring for the environment by inspiring, informing and enabling nations and peoples to improve their quality of life without compromising that of future generations.

World Environment Day, over the years, has grown to be the largest global platform for environmental public outreach and is celebrated by millions of people across the world, to acknowledge the urgency of preventing, halting and reversing the degradation of ecosystems worldwide. The campaign includes restoring mangroves and forests, as well as planting trees in urban settings, including schools, colleges, public parks and green belts. 2020 was a year of reckoning, facing multiple crises, including a global pandemic and the continued crises of climate, nature and pollution. The UN Decade on Ecosystem Restoration is intended to massively scale up the restoration of degraded and destroyed ecosystems to fight the climate crisis, prevent the loss of a million species and enhance food security, water supply and livelihoods. Reviving natural carbon sinks – such as forests and peat-lands –could help close the climate emissions gap by 25% by 2030. Replanting with native tree species can also help buffer some of the expected devastating effects of a warming planet, such as increased risk of forest fires. Currently, 3.2 billion people – 40% of the world's population– suffer from the continued degradation of ecosystems, such as losing access to fertile soil or safe drinking water.

The UN Decade runs from 2021 through 2030, which is also the deadline forthe Sustainable Development Goals and the timeline scientists have identified critical for avoiding the worst impacts of climate change. To achieve restoration at the required scale, incentives and financial investments must be made in changing the way lands and oceans are exploited, in research and education, and in inspiring a movement of people, businesses and governments through celebrating success stories.

Ahalia School of Engineering and Technology adds its bit to the celebration of the World Environment Day by conducting a short video creation competition for the degree and higher secondary school students, offering cash prizes for the best entries. I request students all over the world to imbibe the spirit of the day and spread the awareness on environment.

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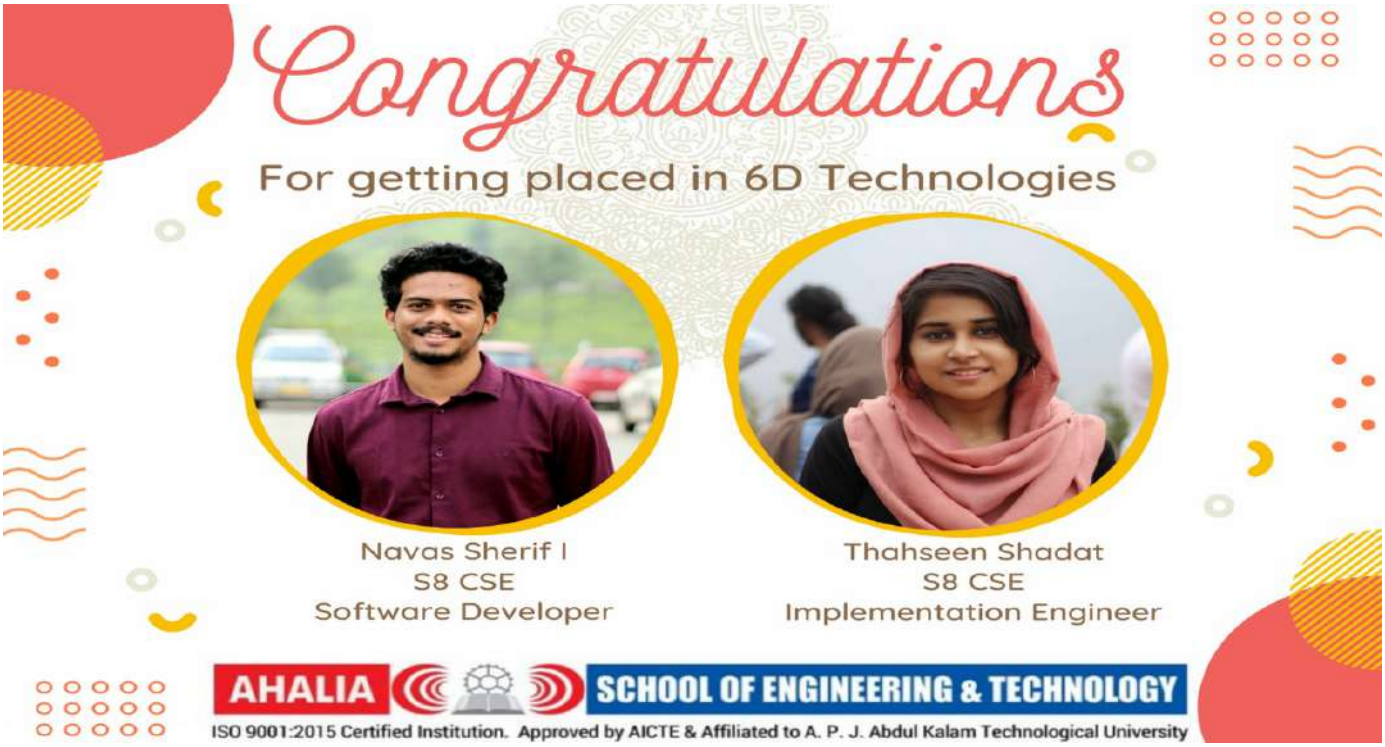
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CONGRATULATIONS





ഭൂമിയിലെ മാലാഖമാർ



Dr. P. R. Sreemahadevan Pillai
Principal

(ലോക നേഴ്സസ് ദിനത്തിന് ആലപിച്ചത്)

മാലാഖാമാരാണു ഭൂവിൽ, എന്നും
ആലംബം രോഗിക്കു നിങ്ങൾ
താവക ചിന്തകളില്ല, നിത്യം
സേവനം തന്നെ മനസ്സിൽ

മാരക രോഗങ്ങൾ ചുറ്റും, ഭയം
ഏറുന്നു ലോകം മുഴുവൻ
മോഹങ്ങളൊക്കെ നശിച്ചോർ, ക്കെല്ലാം
സ്നേഹം കൊടുക്കുന്നു നിങ്ങൾ

എത്ര നമിക്കുന്നു ഞങ്ങൾ, ലോക
മത്രയും നിങ്ങൾക്കു മുന്നിൽ
നമ്ര ശിരസ്സരായ് നിൽപ്പൂ, മേന്മേൽ
നന്മയുണ്ടാകട്ടെ, സ്വസ്തി.

ഡോ. പി. ആർ. ശ്രീമഹാദേവൻ പിള്ള

Engineering Education in India – A Chronology



Anand Haridas
Asst. Prof. - CSE

The Engineering education and the associated technical empowerment has been happening from time immemorial in our nation and it has been highlighted globally time and again by the various outstanding technical contributions in the form of varied 'Indian engineering marvels' that has almost become an integral part of the rich and diverse culture of ours which could very well be called as the 'Indianness'. India has the largest numbers of engineers as well as the largest number of engineering education institutes and infrastructure in the world. As per the latest statistics, our nation annually produces one million engineering graduates, has thousands of engineering colleges, polytechnics, and schools of planning and architecture.Combination of these imparts various undergraduate and graduate courses in architecture, engineering, applied engineering and sciences.

Inception: After India's independence in 1947, the then prime minister envisioned the idea of establishing top engineering colleges in India for the technological as well as the overall growth of the country. Just after taking oath as the first Prime Minister of India, he directed the country's top educationists, planners, and thinkers to plan and establish some of the best engineering colleges across the country by seeking support from some most developed economies of those times like the United States of America, Germany, the United Kingdom and Sweden, etc.Before independence, there were only a few engineering colleges in India in which only B. E. degrees were granted as part of graduate-level engineering education mainly in the field of-

- Civil engineering
- Electrical engineering &
- Mechanical engineering.

After the announcement made by Prime Minister Nehru, what the first three years saw was only planning, and after 1950, the country started seeing the establishment of top engineering colleges in India at the regional and national level aimed mainly at offering graduate-level engineering education. After a decade, the country entered the era of postgraduate level engineering education.

Percolation: While doing the same, both the government and planners have realized the need for diploma holders having more focus on practical instead of theoretical engineering education, and as a result, a large number of polytechnics institutions came into existence across the country. These polytechnics institutions have played a great role in uplifting the level of technical education in the country by providing the candidates with ample job and nation-serving opportunities just after their 10th class examination.
Until 1990, top engineering colleges in India were imparting engineering education based on the patterns of the British or American systems. It was the time when more industry-oriented disciplines were added in the field of high-quality engineering education, including-

- Chemical engineering
- Metallurgy engineering
- Electronics and telecommunications engineering
- Aeronautical engineering
- Agriculture engineering
- Mining engineering
- Foundry
- Paper
- Sugar
- Textile

Amalgamation: In the middle of the 1980s, the management techniques for properly managing the engineering enterprises were introduced in the top engineering colleges in India. It was the need felt by the management of these institutions. They were of the view that this type of knowledge would play a great role not only in the proper functioning of different development projects but also to make the engineers of the country multitaskers. To achieve the same, faculties of business management were deployed in various engineering colleges of India just like the United States had done years ago.

Cybernation: From 1990 onwards, the introduction of computer technology was started mostly at a graduate-level course in the top engineering colleges in India. India is said to be a little bit quicker in its approach to adopt computer education, and this fact needs no mention that today India has the world's finest technocrats. Countless computer engineers from India migrated to the United States to take the credit for creating Silicon Valley over there. Later on, a more refined and specific version of engineering education was introduced in the Indian institutions called Information Technology.

The Engineering education in India has been witnessing a constant surge ever since the computer technology/engineering related courses were introduced at various institutes across the nation and this surge has manifested itself into various 'technical waves' and 'sub waves' in the form of cybernetics, robotics, artificial intelligence and much more over the period of time, each time bettering the previous technical manifestations. And it can only get even better from here on as many more offshoot technologies are on the anvil…
(Much of the contents of this writing were inspired from 'alliance education')

STUDENTS' WRITEUP

The article published here are the winners of Poem writing competition & Essay writing competition of Mother's day 2021 Celebration.

From the day I made my first cry, she was beside me;
A guide to take my first step;
A teacher who made me utter the first word,
The first one to wipe tears of when I fall,
Her hands were quick enough to show me that she would take care of it all...
Her arms would hold me close when I'm sad
She cheers up, she fills my mind with tenderness.
The one who assures my safety and elation
The one whose words give me peace and security.
I just don't know, how could I possibly thank you enough;
From the time I was in your womb,
The one who tucked me in at night
The one who stopped my crying
The one who fed me well....
The one who Chase's away my fears....
The one who has greatest patience with me.
The pillar of our home who adds stability,
A great multi tasker, with multiple roles
Deeply struggling 24*7 sacrificing and enduring.....
The greatest sanctuary of trust and love,
I won't be able to find words,
To express my love and gratitude towards you.....
Anything I wanted to say just doesn't seem enough,
For your heart, sweat, tears, pain, sacrifice, selflessness for years.....
Thanking you so greatly God!!!!
For blessing me with an adorable angel...
I am so lucky to have a mother so dear;
You are my divine sunshine,
Who teaches me to rise in the right path
She's the one who makes everything fine and wonderful to me....
Let the Almighty boost and strengthen you with all...
With great good health, energy, power and potent...
Thereby illuminating the right path for me,
Love you to the core mum.....!!!!



Nithyasree S.
2020- 24, ECE
First Prize

അമ്മ

അമ്മ.... എത്ര സുന്ദരമായപദം
ഇത്രയും സുന്ദരമായപദം വേറെ
എവിടെയും ഞാൻ കേട്ടിട്ടില്ല..
ആ കൈ പിടിച്ച് പാടവരമ്പത്തൂടെ -
നടന്നു കണ്ടകാ ഴ്ചകൾ ഇത്രയും
സുന്ദരമായി എനിക്ക് തോന്നിട്ടില്ല...
ആ സ്നേഹം തുളുമ്പുന്ന കണ്ണുകളുടെ
തിളക്കം ഒരു വജ്രക്കലി ലും
ഞാൻ കണ്ടിട്ടില്ല...

വാത്സല്യത്തോടെ എന്റെ നേരെ നീട്ടുന്ന
ഓരോ ഉരുള ചോറിന്റെ രുചിയും
വേറെ എവിടെന്നും അനുഭവിച്ചിട്ടില്ല ഞാൻ..
ചിലപ്പോ ഇവയെല്ലാത്തിനെക്കാളും
അമ്മ സുന്ദരി ആയോണ്ടാവും എനിക്ക്
അങ്ങനെ തോന്നിയത്...

ആർക്കും ധരിക്കാ ൻ കഴിയാത്ത
എത്രയെത്ര വേഷങ്ങൾ ആണ്
അമ്മ ഇക്കാലമത്രയും കൊണ്ട് ധരിച്ചത്..
ടീച്ചർ ആയും , ഡോക്ടർ ആയും -
വക്കീൽ ആയും , പാചകക്കാരിയാക്കും ...

അങ്ങനെ എത്രയെത്ര വേഷങ്ങൾ...
സ്നേഹം , സഹനം , ത്യാ ഗം ...
അങ്ങനെ എത്ര വിശേഷണങ്ങൾ-
കൊണ്ടാണ് അമ്മയെ നമ്മൾവിശേഷിപിച്ചത്..
എന്നിട്ട് ജീവിതത്തിന്റെ
ഉന്നതങ്ങളിൽ നമ്മൾ
പറന്നു നടക്കുമ്പോൾ സൗന്ദര്യം
കാണാതെ പോകുന്നത് എന്ത്കൊണ്ടാണ്?

ജീവിതത്തിന്റെ പകുതിയും കുടുംബത്തിനും
കുട്ടികൾക്കും വേണ്ടി മാറ്റിവെച്ച
ആതിളക്കമാർന്ന കണ്ണുകളിൽ ഇന്ന്
പ്രകാശം ഇല്ല പകരം കൊഴുത്ത കണ്ണു-
നീ ർ മാ ത്രം ...

ഓരോ വൃദ്ധസധനത്തിന്റെ വാതിലുകൾ
കാത്തിരിക്കുന്നത് ആരെയാ ണ്?
പ്രശംസകളും , പുകഴ്ത്തലുകലുമല്ല മറിച്
അമ്മെയെന്ന വ്യക്തിത്വത്തെ
അമ്മയെന്ന സത്യത്തെ തിരിച്ചറിയൽ
ആണ് നമ്മൾ ഓരോരുത്തർക്കും വേണ്ടത്
അന്നാണ് ശരിയായ
മാതൃദിനം ഉടലെടുക്കുന്നത്...



Anjana R.
2019 - 23 , ECE

Anjana R. (2019 - 2023, ECE)
2nd Prize

' അമ്മ '

നിത്യവും ഞാൻ ഉണരുമ്പോൾ
എൻ മിഴികളിലെ ആദ്യ ദീപമാണെന്നമ്മ.....
ഈറൻ മുടിയിഴകളിൽ
തുളസിക്കതിർച്ചൂടി ... നെറ്റിയിൽ
കളഭവും , നെറുകയിൽ സിന്ദൂരവും
ചാർത്തി നില്ലുമെന്നമ്മ..
കണ്ണുകളിൽ കാന്തിയോടെ
അധരങ്ങളിൽ ചെറു പുഞ്ചിരിയോടെ
നന്മയുടെയും ഐശ്വര്യത്തിന്റെയും
പ്രതീകമായി നില്ലുമെന്നമ്മ..
മകളെ .... എന്ന വിളിയിൽ
സ്നേഹത്തിന്റെ മധുരം ചേർത്തിണക്കി
എനിക്കായി പകർന്നുതരുമെന്നമ്മ...
അമ്മയെന്ന വാക്കിനുപകരമായി
വേറെന്തുണ്ട്പാരിൽ.....
അമ്മിഞ്ഞയാം മധുവിനെ വെല്ലാൻ
വേറെന്തുണ്ട്പാരിൽ.....
എന്നമ്മതൻ സ്നേഹത്തിനുമുന്നിൽ
എന്നും... ഞാൻ....നമസ്കരിക്കുന്നു....



Arya R. Krishna
2019 - 23 , ECE

Arya R Krisha (2019-23, ECE)
3rd Prize

MOTHER: THE INEXHAUSTIBLE EMOTIONAL BAROMETER



Nithyasree S.
2020 - 24 , ECE

Motherhood is a state of selflessness and a home of true love.Mother is a soul that lives for others with compassion, sacrifice, pain and endurance. A mother's heart is never her own, bits of that are sown in to the souls of her daughters and sons.Her heart keeps beating steady, wondering about her child throughout the rhythm of her life.

The pillar of our home, who finds energy to withstand and tolerate all harsh turbulences and storms against her. She is the hand that take all the blame for mistakes that she knows nothing about. She is the greatest multitasker: being a nurse, the first and the best teacher, counselor, friend, cook, a play-Mate and so on.....I struggle so deeply to understand how someone can sacrifice themselves and give that all she have without wanting anything in return.

A Mother is the greatest sanctuary of trust, who never leaves hope in her children despite any exhaustible situation.She is emotional yet rock, tired but still keeps going, overwhelmed but would never quit, she's wonderful even in Chaos, such an endurer no one rather than a mum.....A mother is the purest form of love in this universe; no language can express the power, beauty and heroism of a Mother's love and warmth.

No matter how old a child is, when he comes home he wants to see his mother first.When a child is in trouble, he first runs to his mother for help.She is the one who sacrifices and forgets all her desires while fulfilling the wishes of others. A mother's happiness always depends on her children, if her child is unhappy, she can never be happy.
All mothers play an important role in the growth and development of their children. She takes care of her children since their birth until her last breath.

A mother is the one and only soul that never expect anything in return for all the love they shower upon us and the way they pamper us.We cannot even count their innumerable contributions from dawn to dusk that they do to our lives tirelessly.No one in this universe is endowed with power and potent as a mother.Mother is the one who can take the place of all, but whose place can't be replaced. I have always felt that through our eyes she can read the mind.None of our worries are hidden from her and without her we are nothing.She is the one who works selflessly 24*7 without any gain to keep her family happy.

The bond of a mother and her child is so special that it is cherished forever by both. One day is not enough to celebrate motherhood and we should make every day as special as mother's day to shower our love up on our mothers, who is the first teacher of any child.Measuring the depth of a mother sacrifice is not possible for any one nor can we repay the priceless favours and unconditional love of our mother.

The only thing we can do from the part of us is to take care of our mothers and to respect and shower all our love on her. We should also strive hard to make our mother's happy by following her teachings and becoming a good and successful person.

Nithyasree S. (2020 – 24 ECE)
1st Prize

TO MY LOVING MOTHER

INTRODUCTION



Amigashabnam F.
2020 - 24 , CSE

The modern mother's day has been assimilated into Indian culture and is celebrated every year on the second sunday of May.Mother's day will be celebrated on May 9th this year. Mother's are the most important persons in our lives and they put in their all to help as hone our skills and carve our personalities. Mother's day is celebrated every year to appreciate the effort the mother puts in for her child. People usually give gifts, flower, bouquets etc to their mother to make this day special. Every year, on this day, i wish my Mother in different ways.
I think this essay, "To my loving mother" will be a surprise gift for my mom in this year.

MY MOTHER; MY BEST FRIEND

In my opinion, "Friend is really important for me.I can live without computer, mobile phone , and television, but i can't live without "friend" , the person who is sharing my mood with me whenever I'm happy or sad and i have "Her my best friend who has nice appearance, good personality and I'm happy that i can be friend with her.My best friend is my mother.She is cute, good looking and does not talk too much with the person that she doesn't know very well.When you see her first time you might think she is hard to get along with, but actually if you understand will know that it isn't like what you see.My mother is a responsible person.She always take care of her jobs (Teacher).As a good teacher she handle her students with motherly care and finish the portions on proper time.She call her students as children and establish a good relationship with them.

MY ADMIRE:

I Admire my mom she is hardworking and organized she can manage the time very well and everything is in her schedule.Moreover, she is reliable sometime i will tell her some secrets and she can keep the secret very well and wouldn't talk to others about it. She has close contact with my friends both boys and girls and allow me to gathering with them at my home and outside. She taught me how to be a good person since i was a little girl.She is so considerate and generous that i admire her and also appreciate for what she did for me.

A GOOD TEACHER AND PROBLEM SOLVER

She comforted me and helped me to solve problems as i was in trouble.She encouraged me when i hesitated.She is my first teacher who taught me a lot of things and supported me all the time.As I'm sad for having quarrel with others, she is always patient to listen to me and then tell me what i did wrong. Not only that, she also support me and encourage me so that i wouldn't give in easily. She is the person who understand me well. She is always beside me. When I'm upset, she listens to me and help me every time when i need help.I love my mom forever!

TO MY LOVING MOTHER

Dearest mother, nothing can ever change the love that dwells in my heart for you. If i had just a wish, all i would ask for is to walk with you all the days of my life.Mom your smile is the only thing that brings complete happiness to my soul.i feel so blessed to have an angel like you by my side.

I want you to know that there is simple nothing here on earth nor up in heaven that can alter my love for you.I'm deeply indebted to you for your amazing support and love.Your soft and comforting words have the ability to turn every dark moment in my life into complete bliss.Your compassion, patience and continuous inspiration shaped me into what I'm today.You are the kind of mother every child should on this world. I sincerely love you Mummy! Mom you are my role model.I can't thank god enough for making me your child.It is the best blessing i have ever had as far as my life is concerned.Your place will be forever be in my heart.I love you sweet mom…….

CONCLUSION

Mother's love is the purest form of love in this world, and mother is the greatest blessing for a child by god.As a child, it is our responsibility to value the sacrifice and effort of our mother because all she want is the betterment of her child.We are very fortunate to have a mother in our life, and we must respect our mother.We should give her all the happiness and love because she deserves all of that In return for her selfless love for us.

Amigashabnam F. (2020 -24, CSE)
1st Prize

TO MY LOVING MOTHER



Nandana S.
2020 - 24 , CE

wish You a Happy Mother's Day with lots of love and care.

You are really a super woman.You do thousands of work in the home and the office but you won't be tired. How is it possible? Every mother is a wonder woman.Though you agree and fight with me I love you lot than anyone. It is only because of your encouragement and belief I could score good marks.

You are an inspiration for me because there were many circumstance which doesn't allow you to study even though you went to study and earned a job.You realized me that if you work hard then nothing is impossible.I and my sister were too small, you had a fracture in leg, and family problems on other side keep aside these things or battleing with these issues you studied and at last you won you get a govt. job as clerk in palghat court, and you are a senior staff of KSFE. I'm really proud of you mom.Because many will not dare to do that age? But you did it you are the role model of our upcoming girls in that area.You always said that girls need to be independent.It is only because of your experience that made you to say that girls must be well educated and independent. My gift for you is my bright future which i will built by my hard work .

Nandana S. (2020-24, CE)
2nd Prize

TO MY LOVING MOTHER



Aiswarya K.
2020 - 24 , CE

A mother is she who can take the roles of all others but whose role no one else can take ever.A mother is the first teacher and the first friend of her children.She carries her child in her womb for nine months and nurtures her little one with all her heart and soul.She can understand every gesture of her children since the time they are born. She always supports her children whenever they are weak and become a constant source of energy and inspiration for her children.

She loves her children unconditionally and guides them on the rightpath of life. She takes care of her children and ensures their safety in every way.We celebrate mother's day to thank our mothers, expressing our love and gratitude for them as their love and care can never be repaid.

Mother is the first person that a child seeks for on returning home.She takes care of her children since their birth until her last breath.We cannot even count their innumerable contributions to our lives or all that they do from morning to night.Mothers continue to perform all their duties and responsibilities throughout the day, even if they are tired.They never expect anything in return for all the love they shower upon us and the way they pamper us.However, we can say a big thank you to our mothers for all that she does for us.

For a mother, her whole world is around her children.It is our duty to take care of our mothers, to never let them be unhappy, to never disrespect them and no matter what to never leaves them when they are hard on us.A mother always motivates her children, encourages them to move ahead and work harder in life. A mother's happiness always depends on her children, if her child is unhappy she can never be happy.

No matter how old a child is, when he comes home, he wants to see his mother first.When a child is in trouble, he runs to his mother for help. She forgets her desires while fulfilling the wishes of others. She feeds her children by preparing their favourite dishes; she narrates new stories to her children. She also teaches her children good manners, equity, morality and humanity. In fact, for every child, his mother is the most precious gift of his life.

The bond of a mother and her child is so special that it is cherished forever, by children and their mothers.One day is not enough to celebrate motherhood and we should make every day as special as mother's day to shower our love upon our mothers. We should acknowledge all the little things that our mothers do for us every day.No other gift can be more special to a mother than her children's love and respect. So let us pledge to make everyday special for our mothers and fill her days with warmth and joy.

AISWARYA K. (2020 -24 , CE)
3rd Prize

'Tierra' – Online Quiz Competition

An online quiz competition 'TIERRA' was conducted by the IEEE Student Branch of Ahalia School of Engineering and Technology, Palakkad in association with the IEEE APS SBC and the IEEE WiE SB Affinity Group on 22 April 2021 from 10 a.m. to 10 p.m. The quiz was about Earth Day and 136 students (13 IEEE members) from UG and higher secondary schools participated in the quiz which was conducted using Google Forms. The top eight students who got the highest score were selected for the second round. The second round was conducted via Kahoot on 18 May 2021. The winners of the competition were: Ms. Sneha Kumaresan (1st prize, NSS College of Engineering), Mr. Akhilesh Siva S. (2nd prize, Ahalia School of Engineering and Technology), Ms. Swetha R. (3rd prize, Ahalia School of Engineering and Technology). The event was organized by Mr. Thejas S. (2nd year, CSE) and Mr. Aswin Raj (2nd year, CSE).





ASET ACTIVITIES

Webinar on 'Deep Learning Techniques and its Research Applications'

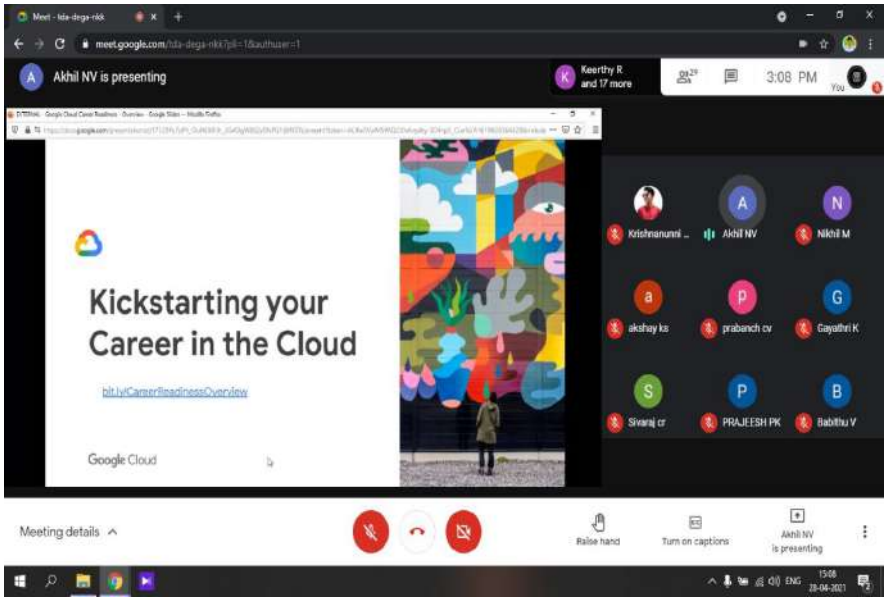
The Department of Electronics and Communication Engineering organized a webinar titled "Deep Learning Techniques and its Research Applications" on 29 April 2021 in association with the IEEE Student Branch, IEEE Antennas and Propagation Society (APS) SBC, IEEE WIE SB AG of Ahalia School of Engineering and Technology, Palakkad. The webinar was attended by 56 students and 4 staff members (38 IEEE members).The resource person was Dr. K. Durga Devi, Assistant Professor, SRM Institute of Science & Technology, Ramapuram Campus.The session was about deep learning techniques and its importance for our future.The session explained in detail about the Deep neural networks, architecture of deep learning, tools for deep learning and its different research applications. Overall, the students appreciated the session since it was a great source of information for their future. This event was coordinated by Master Sanjay S (3rd year ECE) and Miss Sneha Raghunath (3rd year ECE) .



ASET ACTIVITIES

Webinar on 'Google Cloud Ready'

The Department of Computer Science and Engineering and Google ACE programme jointly conducted a live training programme on "Google Cloud Ready" from 10 May to 12 May 2021. 32 third year and fourth students from the CSE department participated. The resource person, Mr. Akhil N. V. (Asst. Prof, CSE dept.), encouraged the students to enroll for the Google Associate Cloud Engineer program organized by ASAP Kerala and Google. The session was a study jam on the practical development of the Google Cloud infrastructure. The program ended successfully with the students enrolling into the program.





Akhil N.V.
Asst. Prof. - CSE

Hariprasad wins Photography Contest

Mr. Hari Prasad B. of Computer Science and Engineering (2019-23 Batch) wins third prize in the photography contest 'Clean Lakas – Much closer to earth's soul' organized by the IEEE Student Branch of GEC Idukki.



Hari Prasad B.
2019 - 23 , CSE

Earth Day – Poster Design Competition

Department of Civil Engineering has conducted a Poster Design Competition on 22-04-2021, Thursday in regarding with World Earth Day with a motto "Restore our Earth : Engineers point of view".The first place was achieved by Mr. Sajal Jain, VIII A, Agra Public School, Agra. The second place was won by Ms. Sneha Krishna. of first year B.Tech Electronics and Communication Engineering, Ahalia School of Engineering and Technology.At third place was Mr. Bharath of Kurukshetra University, Kurukshetra, Haryana, India.



Sajal Jain
VIII A, AGRA Public School, Agra



Sneha Krishna
2020 -24 , ECE - ASET



Bharath
Kurukshetra University

AIJAST Released



The first issue of Ahalia International Journal of Advanced Science and Technology AIJAST has been published.

Poem Writing Competition – 'Rune'

An online poetry writing competition was conducted by the IEEE Student Branch of Ahalia School of Engineering and Technology (ASET), Palakkad in association with the IEEE Women in Engineering Student Branch Affinity Group and IEEE APS Student Branch Chapter on 1st May 2021. The competition was held to commemorate the International Labour Day. Seven UG students (5 IEEE members) participated in the competition. The entries were in English and Malayalam. The first place was achieved by Ms. Shrishti B. M. (2nd year, CSE, University Visvesvaraya College of Engineering) and Ms. Sneha Krishna (1st year, ECE, ASET). The second place was won by Ms. Nithyasree S. (1st year, ECE, ASET). And the third place was achieved by Mr. M. Nithin (2nd year, CSE, ASET) and Mr. Vishnu Venugopalan K. (1st year, ECE, ASET). We received great support from our student branch and the faculty members without whom the event could not have been a monumental success. The judges for the event were Ms. Prabha R. (Asst. Professor, ASET) and Ms. Bindu Valoor (Manager, Academics Outreach, Ahalia Group). Overall, the event was well appreciated by the students who gave us very positive feedback and also requested us to conduct such events in future. The event was coordinated by Ms. Sthuthi Maria S. (1st year, ECE) and Mr. Aswin Raj (2nd year CSE).



ASET ACTIVITIES

Online Speech Competition – 'Arbeit'



Nithyasree S.
2020 - 24, ECE

An online speech competition 'ARBEIT' was conducted by the IEEE Student Branch of Ahalia School of Engineering and Technology (ASET), Palakkad in association with the IEEE Women in Engineering Student Branch Affinity Group and IEEE APS Student Branch Chapter on 1st May 2021.The competition was held to commemorate the International Labour Day.Four UG students (3 IEEE members) participated in the competition.The first place was won by Ms. Nithyasree S. (1st year, ECE, ASET). We received great support from our student branch and the faculty members without whom the event could not have been a monumental success. The judges for the event was Ms. Sangeetha P. S. (Asst. Professor, ASET). Overall, the event was well appreciated by the students who gave us very positive feedback and also requested us to conduct such events in future. The event was coordinated by Ms. Sisira R. Nair (2nd year, CSE) and Mr. Sreevalsan K. R. (1st year EEE).

2021 Mother's Day Celebrations

The Women Development Cell, Ahalia School Of Engineering and Technology, Palakkad celebrated Mother's Day on 9th May 2021, to provide an opportunity to the students for expressing their love and passion towards their mothers. As part of the celebration, essay and poem writing competitions were conducted. 19 students participated in the competitions out of which 12 students participated in the essay writing competition and 7 students participated in the poem writing competition. All the students did excellent work by bringing out their feelings towards their mothers. E-certificates were issued to the participants.

The winners of the essay writing competition :

1. Nithyasree S. – S2 ECE – Ist Position
2. Amigashabnam F. – S2 CSE – Ist Position
3. Nandana S. – S2 CE – IInd Position
4. Aiswarya K. – S2 CE – IIIrd Position

The winners of the poem competition:

1. Nithyasree S. – S2 ECE – Ist Position
2. Anjana R. – S4 ECE – IInd Position
3. Arya R. Krishna – S4 ECe – IIIrd Position



Nithyasree S.
2020 - 24, ECE



Amigashabnam F.
2020 - 24 , CSE



Nandana S.
2020 - 24 , CE



Aiswarya K.
2020 - 24 , CE



Anjana R.
2019 - 23 , ECE



Arya R. Krishna
2019 - 23 , ECE

ASET ACTIVITIES

Three Day Workshop on 'Joy of Programming'



Dr. S. Gunasekaran
Prof & HoD, CSE dept.

The Department of Computer Science and Engineering, Institution's Innovation Council and the Coding Club of ASET, jointly conducted a three day workshop on "Joy Of Programming" from 10 May to 12 May 2021.86 first year students from all departments participated in the event.The resource person, Dr. S. Gunasekaran (Prof. & HoD, CSE dept.) introduced programming and encouraged the students through various gaming tools like SCRACH, TURTLE and RAPTOR. The program ended successfully on the third day and the certificates were distributed for all the active participants.

DCypher – Online Debugging Competition



Sanjay S.
2019 - 23, ME

DCYPHER, an all Kerala online debugging competition, as part of WiEvacity, WiE Week 2021 was organized by the IEEE WiE SB Affinity Groups of Ahalia School of Engineering and Technology (Palakkad), College of Engineering (Poonjar) and Rajadhani Institute of Engineering and Technology.Mr. Sanjay S. of 2nd year Mechanical Engineering has won the second prize in DCYPHER.

PLACEMENT TRAINING PROGRAM

Webinar on ' Embedded Systems '

Center for Career Development, Ahalia School of Engineering and Technology organized a webinar on " Embedded Systems ' by IHRD Regional Center, Thiruvananthapuram on 11 May 2021.Sooraj and Rahul from IHRD Regional Center, demonstrated a prototype model of an embedded system.

The webinar was designed to give insights into.

1. Job Opportunities in Embedded Systems
2. Real Time embedded Systems an introduction
3. Project opportunities in embedded systems
4. Demonstration on a working model of embedded systems design

73 students from Ahalia School of Engineering and Technology attended the program.



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ASET NEWS

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Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.
To promote research and consultancy for institution development and contribution to the society.

IN THIS ISSUE...

Principal's Message	3
Achievements	4
Placements	5
Staff Writeups	6
ASET Activities	18
Faculty Participation in FDP/Workshops	30
Book Publication by Faculty Members	30

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PRINCIPAL'S MESSAGE

WORLD MILK DAY 2022



Dr. P. R. Sreemahadevan Pillai
Principal

World Milk Day is an international day established by the Food and Agriculture Organization (FAO) of the United Nations to recognize the importance of milk as a global food. It has been observed on June 1 each year since 2001. The day is intended to provide an opportunity to bring attention to activities that are connected with the dairy sector. World Milk Day was first designated by the FAO in 2001. June 1 was chosen as the date because many countries were already celebrating a milk day during that time of year. The Day provides an opportunity to focus attention on milk and raise awareness of dairy's part in healthy diets, responsible food production, and supporting livelihoods and communities. This is supported by FAO data showing that more than one billion people's livelihoods are supported by the dairy sector and that dairy is consumed by more than six billion people globally. The fact that many countries choose to do this on the same day lends additional importance to individual national celebrations and shows that milk is a global food. It's a well-known fact that milk is rich with calcium, a mineral that promotes healthy teeth and bones. June 1st is the date that has been set aside to celebrate Milk Day. And, of course, this is a celebration that can take place anywhere in the world, given that milk is a global food! The use of milk in food and drink has been happening for thousands of years. As most people can appreciate, milk is an integral part of most people's daily lives, and there's an entire industry that revolves around it as well. It's a food product that is primarily used by mammals during infancy. Although, in the case of humans, people tend to consume it in adulthood, as most adult humans can digest the lactose in milk. Of course, milk isn't only available for drinking. It's an essential ingredient for dairy foods such as butter, cream, ice cream, and cheese. Milk can also be found as an ingredient used in other types of foods, such as bread, cakes, cereal, desserts and so much more.There is no denying that milk has become a mainstay of most people's diets today. It's also one of the cheapest food products to buy, given the industrial scale of milk production in the world. Some of the largest producers of milk are the United States, India, and China. The global celebration, in general, can be traced back to the United Nations (UN). In particular, the FAO (Food and Agriculture Organization) of the UN has been responsible for organizing and marketing World Milk Day throughout the globe. More than two decades ago, the FAO proposed a global Milk Day to recognize the importance of milk and the role that it plays in our world. In addition, this day was also created to provide direct focus to the milk industry and publicize the various activities connected with it. In fact, the dairy industry supports the livelihoods of approximately 1 billion people throughout the world! But even before this day was created in 2001, Milk Day was celebrated by some other nations throughout history. In the British Isles, for example, a Milk Day celebration ("Imbolc" – Celtic for "milk") took place in the pre-Christian era. Considering the fact that over six billion people worldwide consume milk and dairy, it's no surprise there was a need to celebrate this healthy, delicious beverage! Why not celebrate the Day with a glass of fresh, warm milk in the morning to kick-start?! But don't stop there. How about enjoying a big bowl of cereal full of delicious milk? Of course, after drinking that glass of milk, don't forget to snap a photo of that beautiful milk mustache! Share it with the world on social media to remind everyone else to enjoy Milk Day. Other options for enjoying milk products on this day (and every day!) include yogurt, sour cream, butter, custard, cream and all of the recipes that can be made from them.

The National Milk Day in India is celebrated on 26 November to pay tribute to Dr Verghese Kurien's birthday. He is known to bring the white revolution to India. The Dairy industry in India grew by 9-11% in 2021-22. This growth is affiliated to increasing per capita consumption of milk, economic revival and changing dietary preferences in urban areas. Dr Verghese Kurien was born on 26 November 1921 in Kozhikode, Kerala. Dr Kurien, a mechanical engineer, regarded as the Father of the White Revolution in India, led the world's extensive dairy development program in India, "Operation Flood". He established 30 institutions managed by farmers and workers and helped organise the Delhi Milk Scheme to correct the prices levied. He is known to establish the brand Amul and industrialise dairy production. India became the largest milk producer in 1998 and surpassed the US because of Dr Kurien's contribution. Dr Kurien was awarded several honours like Ramon Magsaysay Award, World Food Prize, Krishi Ratna, Padma Shri, Padma Bhushan and Padma Vibhushan. On this World Milk Day, we remember this great engineer, Dr. Kurien, the great son of Kerala. His autobiography "I too had a dream", is a great reading experience.

ACHIEVEMENTS

BEST OUT GOING STUDENT 2018 - 22 BATCH



Kavya Mukundan
ECE

THE BEST OUTGOING STUDENTS OF DEPARTMENTS: 2018 - 2022



VARSHA V.
CE



SUHARA FATHIMA
CSE



KAVYA MUKUNDAN
ECE



SIDHARTH J.
ME



ARJUN K.
EEE

THE ASET ACADEMIC TOPPERS IN THE 4th SEMESTER EXAMINATION 2019 - 2023



Bhavya S.
CE (SGPA 9.64)



Akshay R Nair
CSE (SGPA 9.55)



Bhavana A.
CSE (SGPA 9.55)



Priyanka K.
ECE (SGPA 9.50)



Naveen T. V.
ME (SGPA 9.36)



Gautham M.
EEE (SGPA 8.41)

THE ASET ACADEMIC TOPPERS IN THE 7th SEMESTER EXAMINATION 2018 - 2022



Drishya K.
CSE (SGPA 9.14)



Hari Prasad S.
ECE (SGPA 8.36)



Varsha V.
CE (SGPA 8.30)



Mohd. Haris K. C.
ME (SGPA 8.07)



Arjun K.
EEE (SGPA 8.02)

PLACEMENTS

ALUMNI JOINED IN AHALIA GROUP



Bharath Roshan
B.Tech. ME (2017-21)
Hardware Service Engr.



Hrishikesh M.
B.Tech. ME (2017-21)
Hardware Service Engr.

STUDENTS PLACED IN VARIOUS COMPANIES



THE ENGLISH LANGUAGE

Are you vaxxed, double-vaxxed, unvaxxed or an anti-vaxxer?



Abhijit V.
Asst. Prof. - ECE
&
T&P Officer

Vax was declared as Oxford English Dictionary's word of the year for 2021.

Meaning:-
vax n. A vaccine or vaccination
vax v. Treat (someone) with a vaccine to produce immunity against a disease; vaccinate
vaxxie n. A photograph of oneself taken during or immediately before or after a vaccination, especially one against Covid-19, and typically shared on social media; a vaccination selfie
anti-vax adj. Opposed to vaccination
anti-vaxxer n. A person who is opposed to vaccination
double-vaxxed adj. Having received two doses of a vaccine

Etymology:-
The word "vaccine" was first recorded in English in 1799, following the British scientist Edward Jenner's experiments with inoculation against smallpox. In early reports on his experiments, the word "vaccine" (derived from the Latin vacca, or cow) was used to refer both to the disease and to the material from the cowpox pustules he injected into his human research subjects.

'FOMO' - Fear of Missing out: - 'I can say that those who don't invest in our nation will certainly miss out' - PM Modi
Newspapers reported that " Modi invokes FOMO'.
What is FOMO?
FOMO has gained attention in social media recently. It indicates the fear of missing out.

Perfidy: What does the word 'perfidy' mean? How is it used in various contexts?
Perfidy means being untrustworthy or having a habit of deceiving. In malayalam, 'വഞ്ചന'.

Etymology:-
'Fidem' means faith in Latin. 'Per' means through. Breaking of faith or belief.
Usage
All countries in the world don't consider the Russian invasion of Ukraine as a perfidy as it is by the West.

Lapsus Linguae: "Oh it was lapsus linguae! Please ignore it" .

What does it mean by lapsus linguae?

Meaning:-
Lapsus linguae means "slip of tongue".

Etymology:-
The word originated from Latin, lapus means 'fault' in Latin and lingua stands for tongue. In other words, the fault of the tongue.

Lapsus: All the words that have lapsus have a lapse. Lapse was born from lapsus. If you have found out something missing in this book it could only have been lapsus calami. Lapsus calami means slip of the pen or a typing mistake.

Who said that

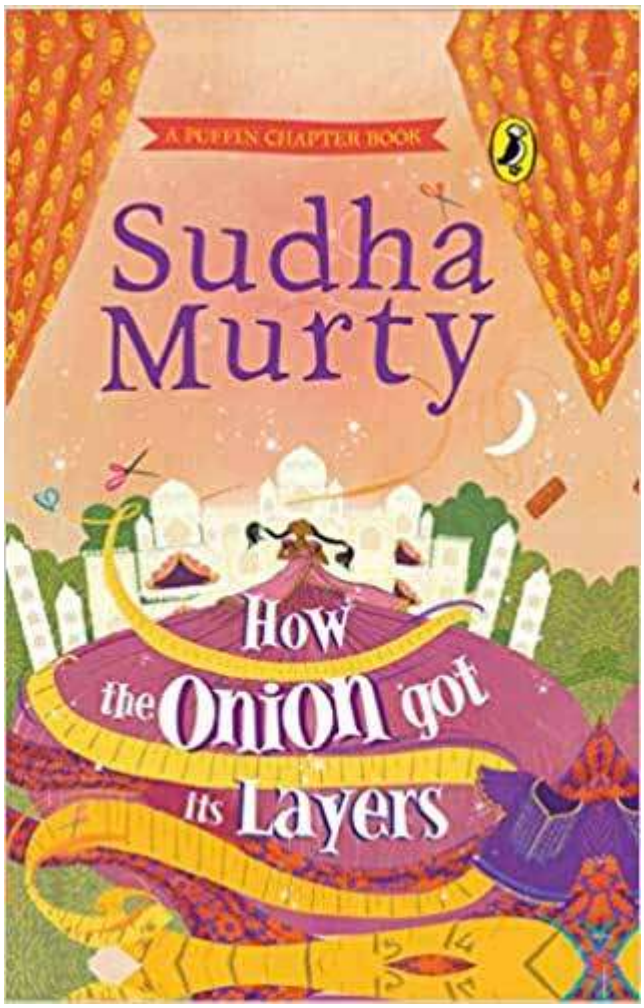
"The British and the Americans are two great peoples divided by a common tongue,"

BOOK

Every one of us has unlimited experiences in life. There is something beautiful when you share it in your own words with the people around you. Sudha Murthy gives an account of a series of events in her life. She is the chairman of Infosys Foundation. Above all, she teaches postgraduate students and she is an M.Tech in computer science. It is the teacher who defines the character of the student. We can understand how much the students are influenced by their teachers.



Abhijit V.
Asst. Prof. - ECE
&
T&P Officer



This is the first time that I am writing something about a book. Although I was a voracious reader, I have never looked back into a book after I have literally "finished it". Also I wish to let you know about some of the books that were published recently. The books may possibly be unread at the time when I write this. So this cannot be a review of the book. I would also not be aware of the contents of the book. But the objective is to simply give you a temptation to read it, enjoy it and review it.

When I began writing this section, I thought I should go more deep into a book. There must be something valuable for you to learn. So instead of just mentioning a book, I decided to write something related to the book, something of which I have read. Towards the end of this, there is my email address. If you have read a book that is new and novel, please do send your inputs to me.

I have come across a new book by Sudha Murthy , titled " How the Onion got its Layers". I have not read the book, so I am writing about another book by the same author.

"How I Taught My Grandmother to Read and Other Stories" - Sudha Murthy.

It was delightful to simply go through the pages of "How I Taught My Grandmother to Read and Other Stories" by Sudha Murthy written in 2004.
The stories traverse from a small hamlet in Karnataka to great cities of the world. There were a few books that came into my mind when I thought of writing about a book. Without thinking too much, I chose "How I Taught My Grandmother to Read and Other Stories", although it has been a while since I have read it. The reason is that the book not only inspires readers to read more but also speaks about how essential reading is for a better life. All said and done, it is written by a teacher who teaches computer science. Sudha was born in 1950. This is her first book for children. She is subjective in writing this book, she writes the way she is.
The story begins with Avva, the grandmother,who feels the pain of her illiteracy. Being unable to read a story published in a Kannada magazine in the absence of her granddaughter, who used to read stories for her, was painful for her. She was in tears. In this information age, it is difficult to imagine that there were people who couldn't read and write. In reality we still have some people who cannot read and write. And how blessed are those who are able to read. The feeling that a person gets when he learns a new skill. As a child, reading books was Sudha's only luxury. We love to hear stories from our grandparents. If we had a grandparent who was a teacher, our life would be blessed. Sudha's grandfather was a teacher. She learned most of her life's lessons by the stories told by her grandfather.

She remembers asking her grandfather,

'Why should the teacher be respected?' For which he replied, he smiled and told me a story. 'It seems some friends of Arjuna, the mighty warrior in Mahabharata, asked him why he gave so much of respect to his teacher Dronacharya. Drona was old, not as rich as Arjuna, and never ruled any kingdom. But Arjuna would always sit at his feet respectfully. When asked why, it seems Arjuna replied, "In this life everything perishes over a period of time. Whether it be diamond, beauty, gold or even land. Only one thing withstands this destruction. It is knowledge. The more you give the more you get." A teacher gives knowledge to students and I consider him the richest person. That is the reason a teacher is respected; not for his riches but because he is the source of knowledge.

-Quoted from the book.

A chapter in the book is dedicated to APJ Abdul Kalam, the name is more than enough for us to get ignited. Her telephonic conversation with Kalam which she thought was a lapsus manus, slip of a hand, of the telephone operator. She was thrilled to know that Kalam intended to dial her only. Further to this, she was lucky enough to meet him personally. He was then the Principal Secretary to the Government of India. Another one more reason is there for me to choose this book as my first one to write about. The author was a teacher, she describes her experiences as a teacher. Hassan, her student for three years, had influenced her and she had taught him moral lessons for life which might for him be a greater learning than his syllabus. She tells her readers the role of a teacher in molding the life of students.

Teacher's day is a special occasion for every teacher in India. We get messages and memoirs. We feel excited when an old student sends us a message or makes a call. The author remembers how she had celebrated teacher's day in 2003 in an exclusive chapter. Never start with diffidence. Always start with confidence. When you are successful, you must give back to society. Society gives us so much, we must return it back. I wish you all the best.'

Bharat Ratna J.R.D.Tata to Sudha Murthy when she said that she is not sure of how successful her husband's company Infosys will be in future.In the next few pages she gives an account of her visits outside India,that is to USA and Russia. Child is the father of a man. There are certain things in our daily life we learn from our kids. Some things that are incredible. Some words that come out of the little tongue mean a lot, sometimes even change the way we think. At one instance, Akshata, Sudha's daughter, speaks about the need to support the poor. Her views influenced Sudha to a very great extent. She wanted Akshata's presence while receiving the award from the Economic Times as a managing trustee of the Infosys Foundation. Money management can be learned. The lessons that a mother teaches a daughter on money management gets underlined in the subconscious mind especially if the girl is young. The author writes about the lessons that she learnt from her mother.

Once a bright student asked Sudha this question 'When you are faced with some difficulty, how do you solve it? Do you avoid it?'
She told her the story of Lord Hanuman bringing mrithasanjeevani to save Lakshman and then said
"If you become bigger, difficulties will look smaller than you, and you can solve them easily. If you become smaller than the difficulties, they will look like mountains and crush you".

If someone asks you "What is your biggest mistake? " how many of us could give an instance. It really requires a lot of intelligence and patience to remember and learn from our mistakes. Where is the learning part when we couldn't even remember what was wrong with us and when. It is like taking notes from life's lessons. In the next few pages, Sudha writes about her lessons in life. The last but one chapter in the book is titled 'My Biggest Mistake'.

Sudha was the only girl in her class while she was studying engineering. She says that when she became a teacher, she had sixty percent boys and forty percent girls. The statistics today may be different. In computer science classes we now have more girls than boys. When an argument broke out between genders in a class while she was teaching, she says *"In real life, men and women are not opponents, they are the two wheels of a chariot. There is nothing good about one and bad about another".*

LIFE BEFORE BIRTH



Anand Haridas
Asst Prof. - CSE

If there is something which remained and continues to remain limitless and unbounded throughout the known history, probably, the mystery surrounding the 'existence' would be the one that would occupy the topmost spot. 'Existence' in its real sense is indeed very much open ended as the living being continues to live even after the perceived departure, though in a different vibration that would be extremely difficult to gauge by the commoners who by remaining as an overly worldly materialistic living being, deliberately or otherwise decides to turn a deaf ear and a blind eye towards these subtle vibrations, the actualities.

The commoners by remaining themselves widely shut from the unflagging eternal truths thus, decides to exist by the 'worldly conventions' that has hypocrisy as the underlying force that would gradually pull the commoners into the whirlpool of self doubts that would eventually melt into the deep trench of catastrophes. Thus they remain forever as a non-evolved mortal who continues to live by the worldly conventions that governs them comprehensively which would make it extremely difficult for them to listen to an altogether different vibration that is seemingly submerged but loud enough to pierce the consciousness in a big way.
The 'mid life' phase of a soul, that is the phase that starts immediately after its exit from material physical world and the one that spans through until its next re entry into the material physical world is highlighted by the -review process, what is often referred to as –life review. This is the phase of analyzing one's own deeds in an absolute impartial manner, in the presence of astral mentors, wherein the soul would get a second shot at re experiencing all the life events small or big, pertinent or otherwise, that it has undergone during its previous tenure in the physical world, just like a movie being played on to the screen of the consciousness in a short duration. This experience of life events from a different vantage point would eventually lead the soul to get itself reignited with the process of self reformation.
Life before birth would be highly intriguing and compelling as it's an extremely crucial phase in an individual's life which is full of planning and preparation just like the kind of preparations and planning that are being made beforehand a war. The soul that has gone through the life review, after its exit from material physical realm is full of determination to overcome the shortcomings of its previous incarnation. Once this soul has been made fully aware of all the pitfalls of its previous appearance on the planet earth by the guardian angels or astral mentors, now the next step for this soul is to get itself readied for its next mission through an incarnation. And as a precursor to this process the soul has to find a suitable physical body in the material realm that would be ideal for carrying out its life plan prepared in the presence of its guardian angels and mentors.

The process of lookout for a suitable physical body would at times be a highly tiresome and a challenging task as the soul has to find the right 'would be' parent down here on planet earth who are having a very similar soul vibration with that of its own and have to make sure that the surroundings of the 'would be' parent are conducive for the soul to pursue and fulfill its missions. As part of this the soul hovers over its –'would be' home frequently making sure that everything is as per the plan set out by it. As the arrival day nears, the soul tries out its 'would be' physical body by actually getting into the expectant mother's womb, this is when the expectant mother feels the 'baby kick' for the first time. And once this soul is fully convinced and convenient with its future carrier on this physical world it gets merged into it without any more apprehensions.

Finally, after its arrival on this physical realm under the identity of a human baby it does carry the imprints of its missions in its mind and soul walls for quite some more time. But with the passage of time these recordings on the soul wall starts to wane and roughly by the age of three it almost completely forgets its missions by passing through the indispensable 'veil of forgetfulness' that assures that the soul never recollects its bygone life events and happenings, thus ensuring that the new life down here on this material realm would be spent in an absolute unpartisan way leading to a speedy 'eternal return'….

SEMICON INDIA 2022 AND INDIA'S SEMICONDUCTOR MANUFACTURING AMBITIONS

Everything that leads the world, except semiconductors, are virtual. In reality, Semiconductors make the virtual process possible. Semiconductors transformed the previous generation in such a way that electronic gadgets had become a part of the human body. To a great extent we could overcome the pandemic by the application of semiconductor technology in almost every walk of life. “We are facing a crisis on top of a crisis” says the IMF Managing Director, Kristalina Georgieva in an article published in April 2022[1]. Amidst the pandemic, the world faced a Global semiconductor chip shortage which severely affected the manufacturing sector. This issue has revealed that semiconductor manufacturing infrastructure is inevitable.

The human brain is a set of neurons which makes it possible to think and retain, a computer is an integrated electronic device run by a semiconductor. Materials that conduct electricity when energised are generally known as semiconductors. Any class of crystalline solids intermediate in electrical conductivity between a conductor and insulator is referred to as a semiconductor which is employed in the manufacture of various kinds of electronic devices which include IC’s, transistors etc. These devices have widespread applications because of their compactness, power efficiency and reliability.

Semicon 2022, an International conference on semiconductors was organised in Bengaluru from April 29 to May 1st 2022 by India Semiconductor mission. India semiconductor mission is an initiative of Government of India launched in 2021 to take forward the vision to make India a leader in electronics manufacturing,semiconductor design and innovation.With the massive outlay of 76,000 crores, the ministry of electronics and IT announced a scheme for the promotion of semiconductor ecosystem in India.[2] India has an “Exceptional semiconductor design talent pool which makes upto 20% of the world’s semiconductor design engineers.”, Prime minister Narendra Modi said while inaugurating the conference.

The India Semiconductor Mission (ISM) is a part of the comprehensive program for the development of fabrication labs for producing semiconductors to quench the needs of the world. In today's world of technology, when almost everything revolves around electronic gadgets, one cannot explain the importance that these microchips, IC’s hold. ISM is led by the global experts in semiconductor for the smooth, efficient and comprehensive implementation of this scheme. The demand for semiconductors is booming with the emergence of electrical vehicles apart from smartphones,TVs,laptops,medical equipment,etc. They support various investors and they ensure the benefits of semiconductors under various schemes which come under the National policy on Electronics and the targets are achieved.

Semiconductor manufacturing infrastructure is the most important factor to be considered in building the electronics manufacturing ecosystem. Currently, there is a huge opportunity for India to supply the semiconductor needs of the world, provided the facilities are all improvised. Prime minister has related the government to be like the AND gate - that is, if the industry works hard, the government should work even harder. The conference has opened up an exhaustive platform for discussion between the investors and the government. The skills of the Indian diaspora working in this sector has been appreciated across the globe. They have necessary experience and expertise in contributing to the development of recent advancements in technology. They have a huge role in shaping India's future in the electronic manufacturing sector. Electronic manufacturers require highly skilled labour for fabrication and design of semiconductor devices. As per a report released on February 15,2022 by CNBC a global semiconductor industry sales escalated to $555.9 Billion upto 26.2% every year. China remain the biggest market with a sales totalling $192.5 Billion.A Memorandum of Understanding was signed between All India Council for Technical Education (AICTE) and SEMI Tech Services India Pvt. Ltd.,India Semiconductor Mission(ISM) And VLSI Society of India (VSI). Under this MoU, ISM, AICTE & VSI shall obtain the curriculum from SEMI and modulate it according to Indian needs for propagating it to large number of technical colleges. The Government of India coined six reasons why the global investors should invest in India. He mentioned that Building infrastructure connects over 1.3 billion Indians, paving the way to lead the next ‘technology revolution’, headed for robust economic growth with the world’s fastest-growing startup ecosystem, wide ranging reforms to improve ease of doing business, investing heavily in skilling/training young Indians for the needs of 21st century. Several measures towards transforming the Indian manufacturing sector are the reasons that were put forward by the PM. On account of the conference, a significant number of companies have disclosed their interests in

investing in India. A joint venture between Vedanta Group and Foxconn Technology has shown interest in investing $15 billion in India. An MoU was signed between Israel's ISMCAnalog Fab and the Karnataka State Government to set up a semiconductor chip-making plant in Mysore. The government had discussions with global firms like Intel Corporation and Taiwan Semiconductor Manufacturing Company. Intel Country head Nivruti Rai mentioned to make the new trinity ACE - AI,Connectivity and Electric Vehicle.

Bengaluru-based Semiconductor company Signal chip has created India's first semiconductor chipset 'Agumbe' for manufacturing 5G NR and 4G LTE modems. To strengthen the chip design ecosystem of India MietY has announced Design Link Incentive (DLI) scheme where CDAC is the Nodal agency for it's implementation.

The government expects investments of around Rs 1.7 lakh crore and 1.35 lakh jobs in the next four years.[3] In a notification released by the Ministry of Electronics and Information Technology (MeitY), about the setting of the semiconductor fabs in India, it is found that the Indian semiconductor market stands at USD 15 billion in 2020 and is estimated to reach USD 63 billion by 2026 through the scheme.[4] It has also stated that India's semiconductor market will be driven by wireless communications, consumer electronics and automotive electronics with 24%, 23% and 20% of the market share, respectively. We can conclude that India's Semiconductor future is promising through the Semiconductor Mission.

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Abhijit V.
Asst. Prof. - ECE
&
T&P Officer



Vishnu Venugopalan K.
S4 - ECE



Nithyasree S.
S4 - ECE



Ajay Krishna K.
S4 - ECE



Sneha Krishna
S4 - ECE

WORKSHOP ON SELF INTRODUCTION



ASET Literary Club in association with Ahalia Forum organized a workshop on Self Introduction on 29 April 2022.

The coordinators demonstrated how self-introduction can be done in job interviews, professional interactions, and informal gatherings. Students practiced self-introduction.

Prof. Chippy Binoy, Prof, Abhijit Menon, Dr. Mahima Ganesan, and Ms. Bindu Valoor facilitated the workshop.

Such sessions are being held hereafter on Fridays to help our students overcome communication barriers and inhibition.

WORKSHOP ON SOLDERING PRACTICES

One day workshop on Soldering practices was conducted on 29 April 2022 for the students of third year EEE students.Hands on training was provided which will be useful for them while doing their projects.

Dinesh K. Lab Instructor, Dept. of EEE - ASET was the resource person. Lakshmy Suresh, AP, EEE - ASET was the staff coordinator and Jamshee J. was the student coordinator for the program.



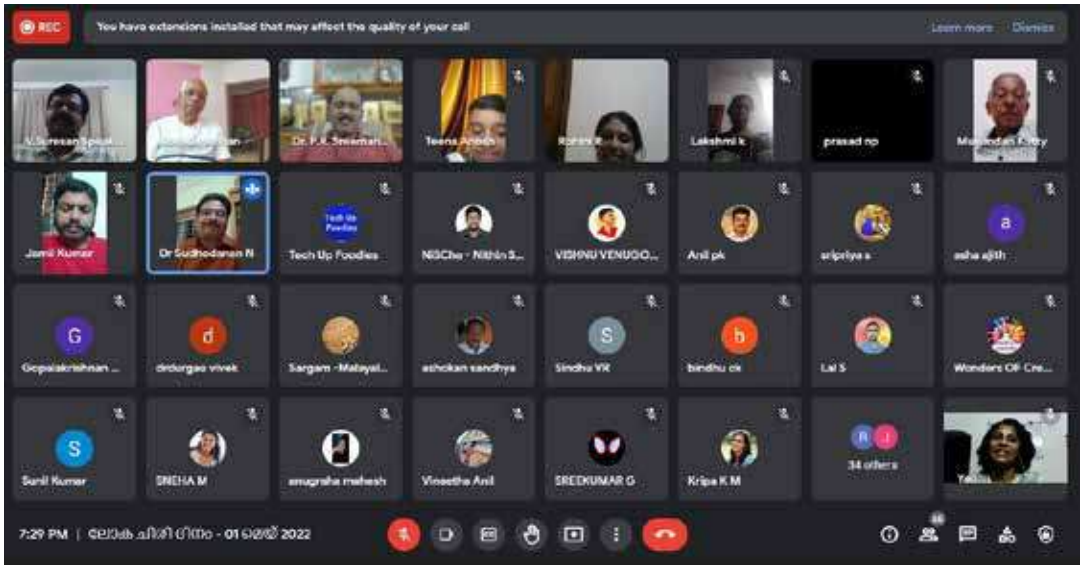


WORLD LAUGHTER DAY CELEBRATION

Ahalia School of Engineering and Technology in association with UBA, NSS, NDLI Club, ASET Literary Club, and Ahalia Forum organized an online World Laughter Day celebration on 01 May 2022 at 7 p.m.



This intends to give moments filled with laughter, which helps us relax as we follow a stressful lifestyle. Laughter is therapeutic, we want to spread it to all. Dr. P. R. Sreemahadevan Pillai, Director, Ahalia Group Academic Institutions, presided over the programs. The following speakers cracked some amazing jokes and created a hilarious ambiance. Prof. (Retd). K. P. Mukundan Kutty, NSS College of Engineering, Palakkad, V. Suresan, President, Narmakairali, Dr. Sudhodanan, Deputy Director (Retd.) Animal Husbandry Dept., Govt. of Kerala, Rohini Rahul, Artist, Kanakam of Uppum Mulakum Serial, Kochukrishnan K., Retd D.G.M. Malabar Cements Ltd., Anugraha M., B. Tech First Year, Ahalia School of Engineering and Technology, Jamil Kumar P. K., Treasurer, Palakkad Hockey Association, Binya Thushar, YouTube Blogger, Nithin Chittoor, Secretary, Palghat Management Association, Athul Krishna V. A., 6th Standard, Ahalia Public School. Ms. Bindu Valoor, Manager- Academics Outreach, Ahalia Group offered the welcome address, and Prof. Abhijit Menon, Training and Placement Officer, Ahalia School of Engineering and Technology proposed the vote of thanks. More than 90 participants joined the program.



TRANSITIONAL CURRICULUM

Prof. Lakshmy Suresh, IEDC Nodal Officer, ASET, Prof. Anil, IEDC Asst. Nodal Officer, ASET, and Prof. Roshan Sanu, NSS Programme Officer, ASET, conducted a hands-on training on TEAM: FORMING, NORMING AND PERFORMING at ASET Seminar Hall on 05 May 2022 for the first year BAMS students of Ahalia Ayurveda Medical College.



പിള്ളേർ ഓട്ടത്തിലാണ്

ASET Annual Athletics Meet '**പിള്ളേർ ഓട്ടത്തിലാണ്**' was held on 07 May 2022. A square deal event saw great participation from students. Enthusiastic onlookers and goosebump moments made the event a pinnacle experience. Champions of the event were the FINAL YEARS.

Dr. P. R. Sreemahadevan Pillai, Principal, ASET inaugurated the event. Dr. Krishna Kumar Kishor, Vice Principal, ASET handed over the flag to the Sports Secretary.



INDIVIDUAL CHAMPIONS - ASET ANNUAL ATHLETICS MEET

Boys



ABIJITH. V
S8 - ME

Girls



ASHCHARYA
S2 - EEE

WORKSHOP ON INDUSTRIAL APPLICATIONS OF ROBOTICS

CSE Association organized a One Day Workshop on "Industry Applications of Robotics" on 09.05.2022 in association with IIC and IEDC ASET. The Workshop was led by Mr. Niranjan SDR, Founder & CEO of Mukkudal Robotics Ltd., Coimbatore. The program was inaugurated by Dr. S.Gunasekaran (HoD/CSE). After that the first session started with an Introduction to Robotics. The second session was focused on discussions on Industry Applications of Robotics. The third session included demonstration and hands-on training of EV3 Lego Robot with the familiarization of Programming Environment LabView. The workshop concluded with the Vote of Thanks by Students Representative Ms. Archana.



ASET ADOPTS ELAPPULLY VILLAGE 2

Under Unnat Bharat Abhiyan of the Government of India, Ahalia School of Engineering and Technology has adopted Elappully Village 2. A meeting was organized on 10 May 2022, with the representatives of Elappully Panchayat, NGOs like OISCA and Water Aid India, to discuss the Village development activities. An extensive plan of action has been devised. The areas of association identified are water management, hi-tech agriculture, education, green initiatives, health awareness, etc. Dr. P. R. Sreemahadevan Pillai, Principal, ASET, Dr. Sudhodanan, State Secretary, OISCA International, Mr. Joseph, Water Aid India, Mr. Rameshan, Elappully Panchayat Standing Committee Member, Mr. Vinod, Agriculture Officer, Elappully, Mr. Vijumon, Agriculture Assistant, Elappully, Mr. Babu, Vice President, OISCA, Elappully, Mr. Chenthamara, Secretary, OISCA, Elappully, Dr. Murugananth, HoD, EEE, Prof. Preeja, Coordinator, UBA, Prof. Roshan Sanu, Program Officer, NSS, Prof. Vignesh, Coordinator, UBA, Mr. Sreenivasan, Admin. Officer and Ms. Bindu Valoor, Manager-Academics Outreach took part in the discussion.



IEEE COMSOC STUDENT BRANCH CHAPTER

The inauguration of the IEEE Communication Society (ComSoc) Student Branch Chapter of Ahalia School of Engineering and Technology was held on 11 May 2022 in the ASET Seminar Hall. The function was attended by 76 participants (20 IEEE members). The event began with the welcome speech by Ms. Arya R. Krishna (Chair, IEEE ComSoc Student Branch Chapter) followed by the presidential address by Dr. P. R. Sreemahadevan Pillai (Principal, Ahalia School of Engineering and Technology). Dr. Shamna H. R. (Chair, IEEE ComSoc Kerala Chapter) inaugurated the SBC virtually. In her inaugural address, she talked about the benefits of ComSoc membership and the activities of ComSoc Kerala Chapter. Dr. Jobin Francis (Vice Chair, IEEE ComSoc Kerala Chapter) spoke about the advancements in communication technologies. Following that, the felicitations were given by Dr. Krishna Kumar Kishor (IEEE Student Branch Chapter Counselor and Vice Principal, Ahalia School of Engineering and Technology). The ceremony concluded with a vote of thanks by Ajay K. S. (S4 ECE).







WORKSHOP ON INITIATING SMALL TALKS IN PERSONAL AND PROFESSIONAL SCENARIOS

ASET Literary Club in association with Ahalia Forum organized a workshop on initiating Small talks in a personal and professional scenario.

Prof. Chippy Binoy gave a few practical tips on starting a conversation, the dos and don'ts. Prof. Abhijit Menon cited the benefits of small talks while networking. He quoted some examples from his networking experience. Ms. Bindu Valoor briefed me about how to make an entry into a gathering, pick the people one wants to bond with, and how identify someone who is ready to network with you. Dr. Mahima Ganesan encouraged the students to interact and involve in activities.



MoU SIGNING CEREMONY

Ahalia School of Engineering and Technology, Palakkad signed a Memorandum of Understanding (MoU) with Integrated Rural Technology Centre, Mundur. This association intends to use the Engineering and Technology expertise of both parties to explore solutions for the betterment of society.







CSE ASSOCIATION DAY CELEBRATION “ASTHRA 2K22”

Department of Computer Science and Engineering organized Association Day Celebration "ASTHRA 2K22" on National Technology Day (11.05.2022). The Inauguration Ceremony of the celebration was conducted at ASET Seminar Hall I. The Programme started at 9:30 AM. Ms. Drishya K, Student Representative of CSE Association delivered the Welcome Speech. The ceremony was presided by Dr. P.R.Sremahadevan Pillai (Principal - ASET & Director - Ahalia Group of Institutions). Dr. Deepak Rajendraprasad (Asst. Professor, IIIT Palakkad) inaugurated the Association Celebration activities. Dr. S.Gunasekaran (HoD/CSE) and Dr. R.Sivakumar (Professor/CSE) felicitated the gathering. The inauguration ceremony concluded with Vote of Thanks by Mr. Akshay.K.S (Students Representatives). After that, Final Year CSE students organized various technical and non technical competitions for students of ASET. The major events were Technical Quiz, Debugging, UI/UX Design, Keyboard scrambling and Photography contest. The fun events conducted were gaming, dark room, talent hunt etc. The programme ended at 4:15 PM with Prize Distribution.



GLIMPSES OF ASTHRA 2K22



UI/UX design



Technical Quiz



Gaming



Keyboard Scrambling

ASTHRA 2K22 COMPETITION WINNERS:



UI/UX design: Hariprasad.B (S6CSE)

Code Debugging First Prize: Akash.R (S6CSE)





Code Debugging Second Prize: Yasar Arafath.S (S6CSE)



Code Debugging Third Prize: 1. Vishnuram.B (S4CSE)



Code Debugging Third Prize: 2. Harikrishnan.K.C (S4CSE)



Technical Quiz First Prize:
Sujith.J and Aswanth Krishna.M (S4CSE)



Technical Quiz Second Prize: Anika Kumari and Hibah Hakeem (S2CSE)



Technical Quiz Third Prize: Krishnanunni Sunil and Sivaraj .C.R (S8CSE



Photography Contest Winner: Abhijith PK (S4CSE)



Dark Room Winner: 1. Reshma.R (S8ECE)



Dark Room Winner: 2. Jyothsna Bhadra.S(S8ECE)



Keyboard Scrambling First Prize:
Ashwin Suresh (S4CSE)



Keyboard Scrambling Second Prize:
Abhishek S Kumar(S4CSE)



Gaming Winners: Arul Dev S2 CE,
Kiran M. S2 ME, Prithviraj S2 CSE, NIhal S2 ME



Keyboard Scrambling Third Prize: Abhinav M(S4CSE)

WORKSHOP ON SOFT SKILLS AND CAREER PROSPECTS

Prof. Abhijit Menon, Training and Placement Officer, Ms. Bindu Valoor, Manager -Academics Outreach, Ahalia School of Engineering and Technology, handled a full-day workshop on Soft Skills and Career Prospects for Mechanical Engineering students of Government Polytechnic College, Palakkad on 13 May 2022.
The workshop dealt with body language, confidence building, group discussion, tips for personal interviews, and stress handling.






ARANGU - COLLEGE ARTS DAY 2K22

Every student in ASET is a good social being who flourishes in any field they touch. This is possible by the platforms that are provided by the College to showcase their in-born talents in Arts and Literature. The college union takes the initiative in the smooth conduct of every fest on the campus. The College Arts Fest is conducted as part of the College Day every year, ASET's own arts fest - ARANGU is celebrated.

Every fest brings out new talents so that all the faculties, staff, and students get the total sweetness of its enjoyment. The program starts with prayer followed by a welcome address by Miss Praveena of S4 CSE Arts Club Secretary of ASET Students Council, Dr. Krishna Kumar Kishor, Vice Principal Presided over the function and gave the presidential address. The Inaugural address was given by Dr. P.R. Sreemhadevan Pillai, Principal, ASET. Vote of thanks was delivered By Arya R Krishna of S6 ECE, Vice-chairman of ASET Students Council. Mr.Devraj of S6 CSE, chairman ASET Students Council also graced the occasion.

Cine actress Aparna Das(beast fame) was the chief guest for the Events.

The student's achievers in academics, co-curricular and extra-curricular activities are awarded certificates and memen-tos.



GLIMPSES OF COLLEGE DAY CELEBRATIONS



HAVE YOU GOT IT RIGHT?

ASET Literary Club in association with Ahalia Forum organized a workshop on Communicate without being embarrassed

Wrong usage & over usage of certain words, proper pronunciation, how to deal with embarrassing situation were focused in this workshop. Students were encouraged to talk about an embarrassing moment they encountered.

Prof. Chippy Binoy, Prof. Abhijit Menon, Dr. Mahima Ganesan and Ms. Bindu Valoor facilitated the workshop.

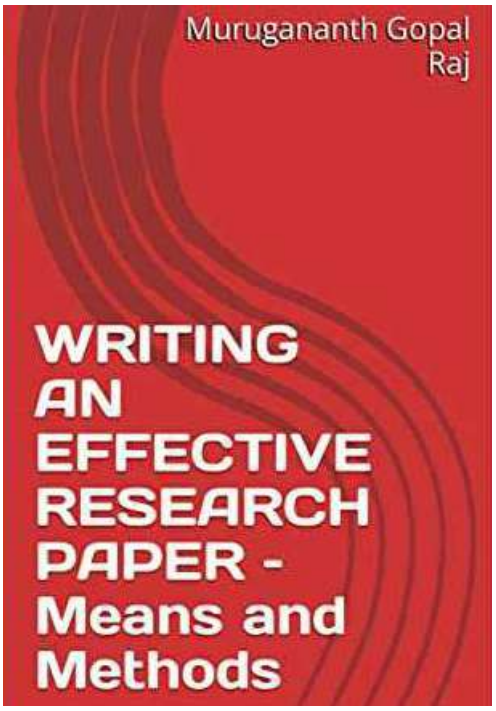


FACULTY PARTICIPATION IN FDP/WORKSHOPS

Mr. Vignesh V, Assistant Professor of Mechanical Engineering Department has attended IIT Palakkad- KILA Unnat Bharat Abhiyan Regional Workshop on 23-04-2022

BOOK PUBLICATION BY FACULTY MEMBERS

Dr. G. Murugananth, Prof & Head - Dept. of EEE, Ahalia School of Engineering and Technology authored a book titled, " Writing an Effective Research Paper - Means and Methods".



STUDY @ AHALIA

COURSES OFFERED

B.TECH. - CE, CSE, ECE, EEE, ME

MSc. OPTOMETRY **BAMS** **B.PHARM.**

BSc. MLT **BSc. OPTOMETRY**

BBA **DIPLOMA COURSES**

Pre KG - XII

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ASET NEWS

A monthly newsletter of
Ahalia School of Engineering & Technology

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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PRINCIPAL'S MESSAGE

MESSAGE ON NATIONAL SCIENCE DAY



Dr. P. R. Sreemahadevan Pillai
Principal, ASET &
Director, Academics, Ahalia Group

National Science Day is celebrated all over India with great enthusiasm on 28 February every year in order to commemorate the invention of 'Raman Effect' by the Indian physicist, Sir Chandrasekhara Venkata Raman on the same day in the year 1928. For his great success in the field of science in India, C. V. Raman was awarded and honored with the Nobel Prize for Physics, in the year 1930.

National Science Day is being celebrated every year to widely spread a message about the significance of scientific applications in the daily life of the people.
Also, to display all the activities, efforts and achievements in the field of science for human welfare, to discuss all the issues and implement new technologies for the development of science, to give an opportunity to the scientific minded citizens in the country, to encourage the people as also to popularize Science and Technology.

On this occasion, students of the schools and colleges demonstrate various science projects and national and state science institutions demonstrate their latest researches. The celebration also includes public speech, radio-TV talk shows, exhibitions of science movies, science exhibitions based on themes and concepts, watching night sky, live projects and researches demonstration, debates, quiz competitions, lectures, science models exhibitions and many more activities.

The promotion of science and technology is a sine qua non for the upliftment of the country in the right track. A country with nearly one and a half billion population, wound at times by superstitions, can tramp the way to emancipation, only through the development of a scientific temper. Though none of our scientists could bring a Nobel prize to this country (though some NRIs could get) after C.V. Raman, the scientific temper has been cultivated here, right from Nehruvian era. We have advanced much in space technology and military. Still the application of "Science, Technology and Innovation in Education" is having only limited application in India. Hence this theme is adopted for the Science Day celebration this year, befitting the memory of the man who brought laurels to this country, studying here and working here, with the limited resources. On this day of commemoration of our legendary scientist, I request our academics and students to take a pledge to devote for the scientific development of our motherland, through the challenges of innovative teaching and learning.

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AHALIA GURUVANDANAM 2021

Ahalia School of Engineering & Technology, along with the other Ahalia academic institutions, organized the Guruvandanam programme, to honour the Principals and teachers from higher secondary schools in Palakkad district .Though COVID-19 pandemic has posed a lot of challenges to the mankind, health professionals and teachers extended dedicated work even during these tough times. We would like to take this opportunity to salute your selfless deeds towards bettering the lives of students - the future of our nation. In the event Principal, Vice Principal and Teachers from our college visited selected schools in Palakkad district and honoured Principals, teachers of various schools in Palakkad with mementos, certificates and gifts.



Guruvandanam Program held at **Holy Trinity School , Kanjikode, Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students.ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam Program held at **Assisi English Medium Higher Secondary School, Kanjikode, Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students.ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam Program held at **PMG Model Higher Secondary School, Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam Program held at **St. Ann's Senior Secondary School, Muttikulangara, Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students.ASET represented by Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam program held at **Vijayamatha Convent Higher Secondary School, Chittur, Palakkad,** to honour the school, Principal and teachers for their yeomen services in the period of covid lockdown, providing exemplary services to the students.ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager- Academics Outreach, Sreejith P.B. , PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam Program held at **St. Thomas Convent Higher Secondary School, Olavakkode, Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exem- plary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai , Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B. , PRO, visited the school and honoured the Principal and staff and felicitated.



Guruvandanam Program held at **Sree Narayana Public School, Elappully, Palakkad,** to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.

Guruvandanam Program held at **BSS Gurukulam Higher Secondary School , Alathur, Palakkad,** to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai , Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B., PRO, visited the school and honoured the Principal and staff and felicitated.





Guruvandanam Program held at **Govt. Moyan Model Girl's Higher Secondary School, Palakkad,** to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D., Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.

Guruvandanam Program held at **Bharthmatha Higher Secondary School , Palakkad**, to honour the school, Principal and teachers for their yeoman services in the period of covid lockdown, providing exemplary services to the students. ASET represented by Dr. P. R. Sreemahadevan Pillai, Principal, Dr. Krishna Kumar Kishor, Vice Principal, Prakash D.,Professor & HoD - ME, Mrs. Kripa K. M., HoD - CE, Mrs. Bindu Valoor, Manager - Academics Outreach, Sreejith P.B, PRO, visited the school and honoured the Principal and staff and felicitated.



ALUMNI NOW JOINED AHALIA GROUP

Mr. Aswin Sooraj R. (2015-19, EEE batch) has joined Ahalia Group as Junior Electrical Engineer and Ms. Krishnaja S., (2016-20, CSE batch) has joined Ahalia Group, Abu Dhabi, U. A. E. as Guest Relation Executive. Congratulations!



Mr. Aswin Sooraj R.
(2015-19, B. Tech. EEE)
Junior Electrical Engineer in
Project Dept, Ahalia Group

Ms. Krishnaja S.
(2016-20, B. Tech. CSE)
Junior Electrical Engineer in
GRE in Ahalia Group, UAE



CONGRATULATIONS

to **Ajay Prakash Nair**
(2017-21, CSE) student for
Securing Internship at
I DON'T BLABBER through
Internshala




INTERNSHALA

Certificate of Selection

Ajay Prakash Nair

from **Ahalia School Of Engineering And Technology** has successfully secured **Graphic Design** internship at **I Dont Blabber** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: January 25, 2021

Use of Exterior Type-2 Wide Beam - Column Connection in Seismic Regions



Mr. Vivek V.S.
Assistant Professor, CE

Reinforced concrete moment-resisting frames (RCMRFs) have commonly been used for low-to-moderate rise buildings in seismic prone regions. RCMRFs can perform well when subjected to strong earthquake ground motions if they are properly designed and detailed to dissipate the seismic input energy through deformations in the inelastic range. The connections between beams and columns thus become critical components. In typical RCMRF connections, the width of the beam does not exceed the width of the column (conventional connection). However, in most regions of moderate to low seismicity around the world, such as Australia, Hong Kong, and the majority of European countries, RCMRFs with wide beams have been extensively used.

Although the construction practice of wide-beam frame systems has been proven to be efficient and cost-effective, the resistance of the wide beam-column joints against lateral earthquake loading is the main concern of the structural engineers around the world. The exterior wide beam-column connections are not only susceptible to joint shear failure but also they are highly vulnerable to failure of the spandrel (transverse) beam in torsion. Torsion in a spandrel beam is produced by a wide beam's longitudinal bars that anchored outside the column. The results of tests on both exterior and interior wide beam-column connections, without reinforcement on transverse beams, showed that the transverse beams underwent severe torsion cracking, and the ductility and ultimate energy dissipation capacities of the wide beam were found to be much reduced. The existing test database of wide beam-column connection is insufficient, and it cannot address all behavioural aspects of the connections. Unfortunately, the numbers of tested specimens in previously published studies are very limited and various local reinforcement detailing and material properties are involved in the design and construction, which makes it difficult to extract a general design conclusion from the result.

Wide beams are largely preferred by architects as a primary gravity load carrying system because they allow more flexibility in the definition of spaces, and they are very effective in reducing the formwork, simplicity of repetition thereby accelerating the construction speed, and decrease in story height leading to reduction in the cost of construction. Compared to flat slab frames, it provides longer spans and more freedom on the column grid arrangements. However, there are several drawbacks when used in highly seismic regions as a lateral load-resisting system: (1) a deficient transfer of the bending moment from the wide beam to the column, (2) a low lateral stiffness, (3) a poor energy dissipation capacity. These drawbacks are primarily due to the fact that part of the wide beam longitudinal reinforcement is anchored in transverse beams perpendicular to the wide beams and adjacent to the column, rather than in the column core.

'Differently Alive'



Mr. Anand Haridas
Assistant Professor, CSE

'Handicapped' was the once used term to address those people who had some or the other bodily limitations, but this usage had seen various transformations over the period of time in the form of adoption of terms like physically disabled, physically challenged and subsequently, 'differently abled'. Perhaps the finer intention behind these orchestrations were to remove the kind of stigma and separation that is associated with these kind of people who face some or the other bodily limitations. And the subsequent binding of these people with the latest address 'differently abled' has given them a sense of entitlement and reassurance and above all it has the potential to remove even the slightest trace of victimhood, if any from our society at large.

Now taking a leaf out of the above context let's see how the same approach gives acceptance for the term 'death', one of the least talked about subjects due to our sheer ignorance of the principles of life coupled with our own apprehension towards it. In actuality there is no end, death is just the end of the term for a particular soul in human form which is very well called, physical death. Even after this physical death the soul lives through in another form called subtle body not in physical 3D realm but in a subtle realm which might be strikingly similar to physical realm devoid of time and space factors. Although the person who once was within our vicinity is no longer with us now, doesn't mean that person has completely vanished off, in fact the person is pretty much alive with all the sensations that a normal physical being has but the person no longer has a physical body to 'act out' or even to buffer the inevitable 'karmic' blows. And this subtle realm is neither a no man's land nor an unknown land, but a realm that might be very well similar to earth without the 'ticking clocks' that is just a 'thought away' from us.
So now can it be seen that a gradual replacement of the term 'death' with the much less potent terms 'differently alive' perhaps could to some extent alleviate all the apprehensions and the reservations that we always had associated with this process of spiritual transition of soul to the 'other side' of the life.

Sunset

She's coming to me every day with a smile,
Reminding me that I have to go a mile.
Wondering what happened; for a while,
And then I move on with a smile.

Wherever I go she follows me every day,
Behind me, all along the way.
I can't make a day without her presence,
She's the one who understands my silence.

Whenever I'm alone she is with me,
Beside my window, and then its 'we'.
When the rain comes she hides somewhere,
Though she knows I am there.

As soon as I am home she's near the ground,
With birds around her, without making sound.
Then she is disappearing without waving Goodbyes,
Hoping to see her tomorrow, I'm closing my eyes.



Mr. Roshan Sanu
Assistant Professor, CSE

The Golden Ratio



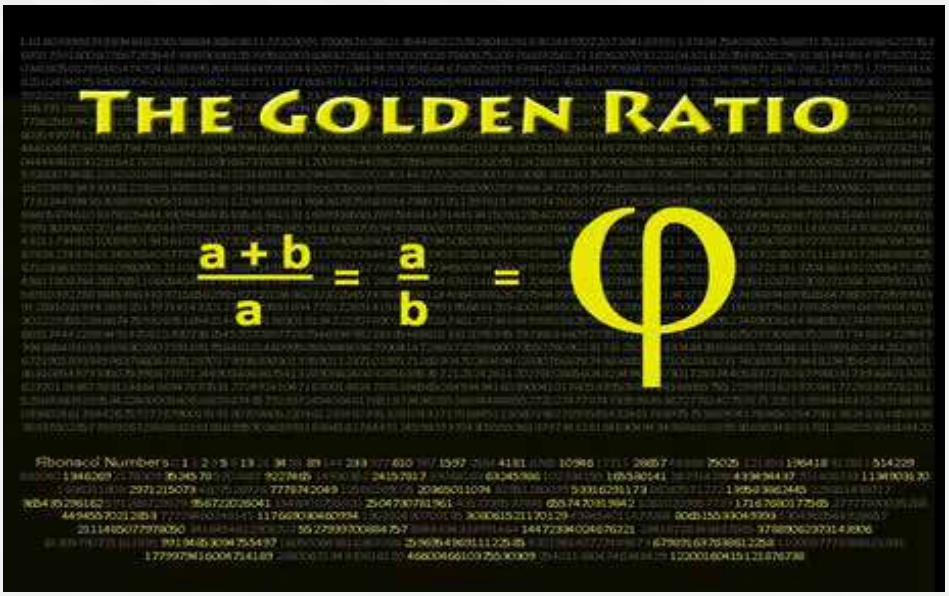
Mr. Vignesh D
Assistant Professor, S & H

The "golden ratio" is a unique mathematical relationship. Two numbers are in the golden ratio if the ratio of the sum of the numbers (a+b) divided by the larger number (a) is equal to the ratio of the larger number divided by the smaller number (a/b).

The golden ratio is about 1.618, and represented by the Greek letter phi, Φ.

The golden ratio is best approximated by the famous "Fibonacci numbers." Fibonacci numbers are a never-ending sequence starting with 0 and 1, and continuing by adding the previous two numbers. The next numbers in the Fibonacci sequence, for instance, are 1,2,3, and 5.

0	1 (0 1)
1	2 (1 1)



3 (2 1)
5 (3 2)

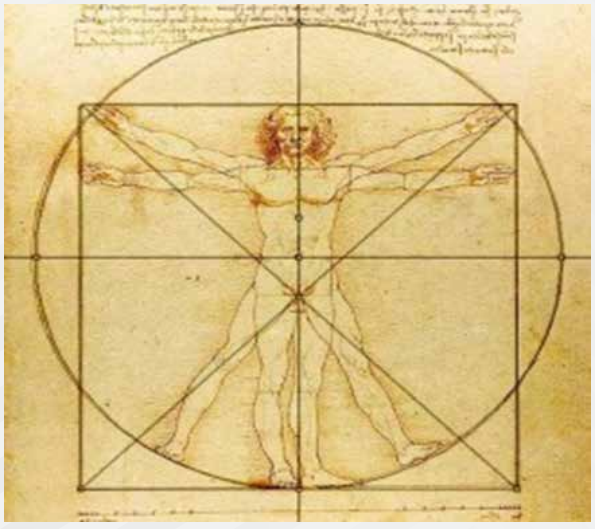
The ratios of sequential Fibonacci numbers (2/1, 3/2, 5/3, etc.) approach the golden ratio. In fact, the higher the Fibonacci numbers, the closer their relationship is to 1.618.

2/1 = 2
3/2 = 1.5
5/3 = 1.66666666 . . .

Golden ratio, also known as the golden section, golden mean, or divine proportion, in mathematics, the irrational number (1+ √5)/2, often denoted by the Greek letter or τ, which is approximately equal to 1.618. It is the ratio of a line segment cut into two pieces of different lengths such that the ratio of the whole segment to that of the longer segment is equal to the ratio of the longer segment to the shorter segment. The origin of this number can be traced back to Euclid, who mentions it as the "extreme and mean ratio" in the Elements. In terms of present day algebra, letting the length of the shorter segment be one unit and the length of the longer segment be x units gives rise to the equation (x + 1)/x = x/1; this may be rearranged to form the quadratic equation , for which the positive solution is , the golden ratio.

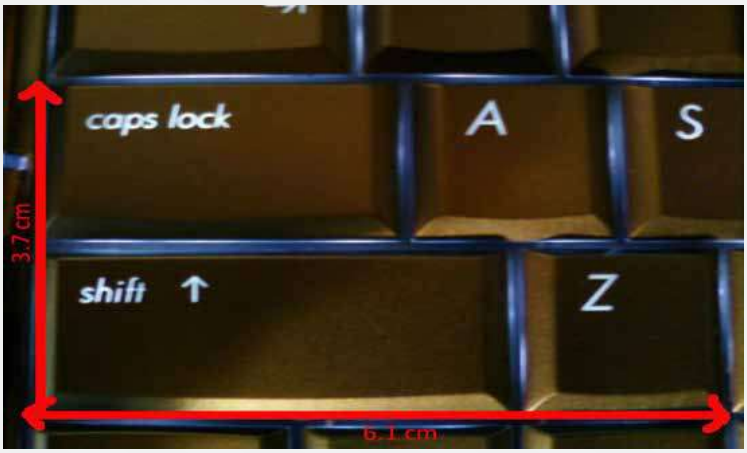
The Human Body

Most people have seen the picture below in some way, shape, or form before in their lives: Leonardo Da Vinci's drawing of the Vitruvian Man, in which he discusses the proportions of the human body.



The story here is that the human body represents and exhibits perfect proportionality in terms of the golden ratio. This is so perfectly in step with the Renaissance ideals of humanism and the expression of the divine in human beings and the world around them that not many have questioned the idea. In fact, this is one of the more prevalent references to phi in Dan Brown's The Da Vinci Code, and, as such, is now widely believed to be true. However, there is really no evidence either for or against the idea that Leonardo purposefully included the golden ratio in his drawing.

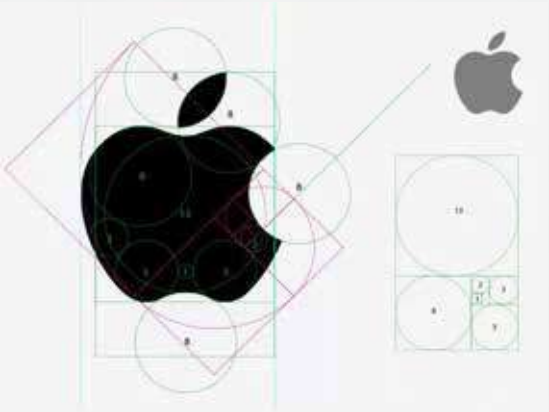
The claim is as follows: "the ratio of a person's height to the height of his/her navel is roughly the golden ratio. We are not told why this is significant; the navel is a scar of no great importance in an adult human being. It is possible to see the golden ratio in anything, really. The ratio of the distance from the left side of the shift key to the right side of the Z key to the distance from the top of the caps lock key to the bottom of the shift key on my keyboard is roughly 1.649, which falls in the critical region for phi.



The Golden Ratio Found in a Keyboard

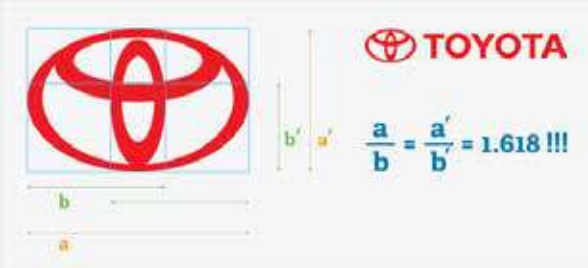
Applications in Logo Design:

Not so surprisingly, you can also find utilization of this divine ratio in many disciplines of modern times, particularly designs. For now, let's focus on how it can be used in logo design. First, let's look at some of the world's most famous brands that have used the golden ratio to perfect their logos.



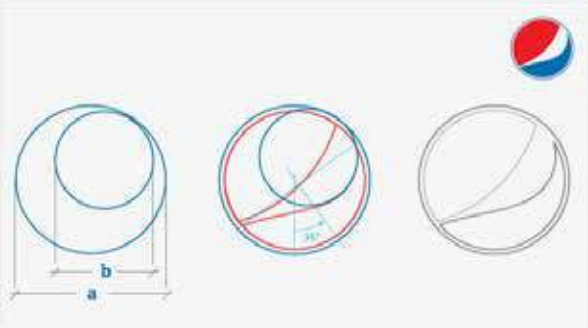
Apparently, Apple has used circles true to the Fibonacci series to place and cut out shapes of the Apple logo. Whether or not this was done intentionally, is unknown. However, the result is clearly a perfect and visually aesthetic logo design.

Toyota's logo follows the a and b ratio to form a grid that lays out the three rings. Notice how this logo uses rectangles instead of circles to create the golden ratio.

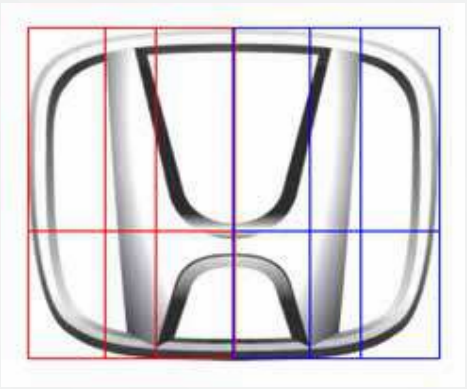


The Pepsi logo can be created by two intersecting circles, one larger than the other. The larger one compared to the smaller one, as shown in the image above, is proportional to—you guessed it! Their latest flat logo is simple, effective, and beautiful!

Other than Toyota and Apple, several other companies' logos such as those of BP, iCloud, Twitter, and Grupo Boticario are believed to have taken the golden ratio into account. And we all know how famous those logos are — because an image immediately pops up into our heads!



Honda has another approach. The width of the Honda logo is defined by two golden rectangles, side by side in portrait orientation, shown below with one in red and one in blue. The upper and lower dimensions of the verticals of each side of the "H" are defined by golden ratio points of each of those upright golden rectangles. A golden rectangle, by the way, is one whose sides are in a golden ratio of 1.618 to 1.



Applications of Nano Technology in Mechanical Engineering



Mr. D. Prakash
Prof. & HoD ME

Nanotechnology is the science ,engineering and technology conducted at the macromolecular level where the properties of the matter are significantly different from their properties at large scale dimensions. Nanotechnology involve the ability to see and to control individual atoms and molecules .Nanomaterial exhibit unique physical and chemical properties and impart enhancement to engineering materials. Nano phase ceramics, nanostructured semiconductors and nano sized metallic powders are few examples of nanomaterials used in mechanical Engineering. Due to their small dimensions, nanomaterials have extremely large surface to volume ratio resulting in more surface depending material properties ;high surface energy; spacial confinement ; reduced imperfections etc.

Nanotechnology is extremely useful in the manufacturing field. It can be used to increase the life of the components in automobile industry. Nanotechnology and nanomaterials is having wide range of applications in the field of energy sectors. It is evident that the nanomaterial split this conventional counterparts because of their superior chemical, physical and mechanical properties and of their exceptional formability. most advanced nanomaterial is used for better thermal insulation and enhanced renewable energy sources. more efficient and lightly combustion system can be used for transportation sector. An inevitable use of nanotechnology will be in heavy industries .lighter and strong materials will be of immense use to aircraft manufactures leading to increased performance of aircraft. The application of potential nanoparticles in catalysis ranges from fuel cell to catalytic converters and photo catalytic devices. platinum nanoparticles are now being considered in next generation of automotive catalytic converters. The present day automobile vehicles have more inner components using nanomaterials .Nanomaterial play significant role in the manufacturing of spark plug. Nanotechnology in steel is used to improve the physical properties of steel. Carbon nano tubes are widely used to reduce the cost of construction. A nano composite coating process could improve food packaging by placing anti-microbial agents directly on the surface of the coated film. Glass also makes use of nanotechnology. TiO2 nanoparticles are used as coating on glass surfaces.It has sterilizing and anti-fouling properties. Nanotechnology may also play a role in sports such as soccer, football, and baseball. Materials for new athletic shoes may be made in order to make the shoe lighter (and the athlete faster).Baseball bats already on the market are made with carbon nanotubes which reinforce the resin, which is said to improve its performance by making it lighter. Nanotechnology is revolutionizing the world of materials. It has very high impact in developing a new generation of composites with enhanced functionality and a wide range of applications.

ASET ACTIVITIES

PTA Meeting -2020 - 21

A separate webinar session with parents of each batch was conducted in January 2021. Principal and senior Professors explained academic progress and other activities of the college. New PTA executive committee members were selected from among them.



Dr. P. R. Sreemahadevan Pillai
Principal, (President)



Dr. Krishna Kumar Kishor
Vice Principal, (Member)



Dr. S. Gunasekaran
Prof. & HoD - CSE, (Member)



Mrs. Kripa K. M.
HoD - CE, (Secretary)



Dr. V. Balamurugan
Prof. & HoD - ECE, (Member)



Dr. G. Murugananth
Prof. & HoD - EEE, (Member)



D. Prakash
Prof. & HoD - ME, (Member)



Dr. Binoy Balan K.
Prof. & HoD - S & H, (Member)



Ms. Lakshmy Surash
Asst Prof. - EEE, (Treasurer)



Mr. Deviprasad K. R.
Parent, (Member)



Mr. Pushparaj S.
Parent, (Member)



Mrs. Jyolthsna C. G.
Parent, (Vice President)



Mr. R. M. Surash
Parent, (Member)



Mrs. Uma Maheswari
Parent, (Member)



Mr. Jamil Kumar P. K.
Parent, (Member)



Mr. K. G. Manoj Kumar
Parent, (Member)



Mr. Unni Madhavan
Parent, (Joint Secretary)

ASET ACTIVITIES

Students Council 2020-21

The elected members of student's council for the academic year 2020-21.



Shahanas I
S7 CSE



Anagha K P
S7 CE



Anupama S Nair
S7 ECE



Ajees A
S7 EEE



Afzal G
S7 ME



Akshay K S
S5 CSE



Soumya R
S5 CE



Kavya Mukundan
S5 ECE



Arjun K
S5 EEE



Muhammed Harris K.C
S5ME



Aswin U
S3 CSE



Soumya Sree M
S3 CE



Arya R Krishna
S3 ECE



Vaishnavi V
S3 EEE



Ajmal Farhan
S3 ME



Arjun K
S3 ME



Dharsana M
S1 CE



Sneha Krishna
S1 ECE



Sreevalsan K R
S1 EEE



L Sachin Kumar Yadav
S1 ME

ASET ACTIVITIES

Workshop on 'Configure your Mobile Sensors –Do it Yourself '

A five days hands on workshop on the topic 'Configure your Mobile Sensors –Do it Yourself ' was organized by Department of Electrical and Electronics Engineering in association with Institution's Innovation Council(IIC) and Ahalia Palakkad ISTE Chapter from 18/01/2021 to 22/01/2021 by Mr. D.K.Sangaran, Application Engineer, Weather Caps Pvt.Ltd, Coimbatore. Students and faculties attended the program. It was a hands-on experience for the participants. The session emphasized on various mobile sensors which can be configured for various application. Students were able to develop their own models after the workshop. The feedback from the participants was really good.



Mr. D. K. Sankaran
Application Engineer
Weather Caps Pvt.Ltd, Coimbatore

Panel Discussion on 'COVID 19 Vaccination and Thereafter'

Ahalia Group Academic Institutions in association with Unnat Bharat Abhiyan under the Ministry of Education & Institute's Innovation Council, Ministry of HRD, Govt. of India organized a Panel Discussion on COVID 19 Vaccination & Thereafter on 26 January 2021 from 4 to 6 p.m.

Panelists



Dr. Amar S. Fettle
State Nodal Officer for COVID 19
Government of Kerala



Dr. B. Padma kumar
Prof. In-Charge of COVID 19 - ICU
Govt. Med. College Alappuzha



Dr. Prem Narayan
Consultant & Hod
Endocrinology & Diabetology
Ahalia Diabetes Hospital



Prof. Roshan Sanu.Y
Covid Survivor
ASET

ASET ACTIVITIES

Webinar on 'Benefits of IEEE Student Membership'

The IEEE Student Branch, IEEE Antennas and Propagation Society (APS) Student Branch Chapter and IEEE Women In Engineering (WIE) Student Branch Affinity Group of Ahalia School of Engineering and Technology, Palakkad organized a webinar titled "Benefits of IEEE Student Membership" on 30 January 2021. This was attended by 64 students and 2 staff members (19 IEEE members). The resource person was Mr. Sreeshanth V. S., 2020 Malabar Hub Membership Development Coordinator The session was about IEEE including various benefits of IEEE Student Membership, IEEE at present, how to take student membership, various activities conducted worldwide etc. Overall, the students appreciated the session since it was a great source of information for the students. This event was coordinated by Mr. Anirudh K. (2nd year ECE) and Mr. Sankulesh Narayanan M. (2nd year ECE) .



Mr. Sreeshanth V. S.
Coordinator,
Malabar Hub Membership Development.

Configure your smart phones sensors: Do it yourself

The Department of Computer science and Engineering had conducted a one week internship program on CONFIGURE YOUR SMART PHONE SENSORS: DO IT YOURSELF from 29/01/2021 to 2/02/2021. The program was handled by Mr. D K Sangaran, Application Engineer, Weather Caps Pvt Ltd, Coimbatore. Total 26 students were actively participated in the event. After the first two days hands on sessions by the resource person, students submitted their individual apps that they developed. "Application for image classification" by Ms. Arya R of S3 CSE was rewarded as best project and all the participants got the certificates. Mrs.Sruthy sukumaran - AP/CSE, and Mrs.Aswathi P.V – AP/CSE were the staff coordinators and Anandu K- S7 CSE, Jayadev V - S7 CSE were the students coordinators



Mr. D. K. Sankaran
Application Engineer
Weather Caps Pvt.Ltd, Coimbatore



Arya R
2019 - 2023 CSE

ASET ACTIVITIES

Panel Discussion on 'National Education Policy – 2020'

Ahalia Group Academic Institutions in association with Unnat Bharat Abhiyan under the Ministry of Education & Institution's Innovation Council, Ministry of HRD, Govt. of India organized a Panel Discussion on National Education Policy – 2020 on 30 January 2021.

Panelists



Dr. M. Abdul Salam
Former V C
University of Calicut



Dr. P.R. Sreemahadevan Pillai
Director
Ahalia Group Academics Institutions



Prof. Venkatesh Raikar
Former Vice Chancellor,
Sanjay Ghodawat University.
Director (Quality Assurance),
KLE Technological University
Hubli, Karnataka.



Mr. Jomy P. L
Educational Expert

IDEATE 2021

Idea Pitching competition-IDEATE 2021 was organized by Innovation and Entrepreneurship Development Centre (ASET –IEDC) in association with Institution's Innovation Council (IIC) on 26th January 2021 in online mode. Students from various institutions participated in the program. Muhammed Rifan K K & team from K.M.E.A Engineering College, Edathala, Aluva, Ernakulam secured first prize at college level .Megha Nair & Gopika P of AKNM -MAM HSS Kattukulam secured first prize at school level. Participants were awarded with cash prizes.

IDEATE 2021 - Winners (College Level)



Mohd. Rifan. K. K
KMEA Engg College
Aluva



Mohd. Hafiz. V. J
KMEA Engg College
Aluva



Sooraj. K. S
KMEA Engg College
Aluva



Prem Kumar. D
KMEA Engg College
Aluva

ASET ACTIVITIES

IDEATE 2021 - Winners (College Level)



Gopika. P
AKNM -MAM HSS
Kattukulam



Megha Nair
AKNM -MAM HSS
Kattukulam

Poster Design Competition

As a part of the celebration of the 'Constitution Day' on 26 November, the National Service Scheme Unit of Ahalia School of Engineering and Technology, Palakkad conducted a Poster Design Competition for the Students of Higher Secondary/Degree/PG. Ravina Rajendra Yadav of Rajarambapu college of Pharmacy, Kasegoan won the first prize and Hridya P S of IES engineering college, Thrissur won the Second Prize.



Ravina Rajendra Yadav
Rajarambapu College of Pharmacy
Kasegoan



Hridya. P. S
IES Engineering College,
Thrissur

Webinar on 'Scope of Electronics and Communication Engineering'

The IEEE Student Branch, IEEE Antennas and Propagation Society (APS) Student Branch Chapter, IEEE WIE Affinity Group in association with the Department of Electronics and Communication Engineering of Ahalia School of Engineering and Technology, Palakkad organized a webinar titled "Scope of Electronics and Communication Engineering" on 28 January 2021 . This was attended by 48 students and 5 staff members (9 IEEE members). The resource person was Dr. Krishna Kumar Kishor, Vice Principal, Ahalia School of Engineering and Technology. The session was about the future scope of Electronics and Communication. The session explained in detail about the industries/areas where ECE can be applied, common research areas in ECE, career opportunities and skills needed for an ECE graduate, connection between the current KTU syllabus and industries. Overall, the students appreciated the session since it was a great source of information for their future. This event was coordinated by Mr. Sanjay S. (3rd year ECE) and Ms. Kavya Mukundan (3rd year ECE).



Dr. Krishna Kumar Kishor
Vice Principal

ASET ACTIVITIES

"How To Overcome Stress Due To Online Class".

The IEEE Student Branch, IEEE Antennas and Propagation Society (APS) SBC and IEEE Women In Engineering(WIE) SB AG, Ahalia School of Engineering and Technology, Palakkad were organized a webinar session titled "How To Overcome Stress Due To Online Class". The session was handled by Dr. Sumina Pambottil Psychologist, Ahalia Ayurveda Medical College Hospital, Palakkad.



Dr. Sumina Pambottil
Psychologist
Ahalia Ayurveda Medical College Hospital, Palakkad

"HEARTS ALIVE"

The Cultural Club of the Department of Computer science and Engineering had conducted a cultural program regarding Valentine's Day "HEARTS ALIVE" on 12/02/2021 at 10.30 AM. Music (Vocal, Instrumental), Speech and Dubsmash were the main events. CSE students actively participated in the event.
Mrs.Keerthana I P - AP - CSE was the faculty coordinator and Goutham G Suresh- S5 CSE, Krishnendu Satish V V – S3 CSE were the student coordinators for the program.



ASET ACTIVITIES

Project Expo 2021

Department of Computer Science and Engineering, ASET conducted a Project Exhibition-"Project Expo 2021' on 15.02.2021 (Monday) from 9 AM to 4 PM. The presentation of projects were conducted at Computer Lab 1, ASET. The event was inaugurated by Dr. S. Gunasekaran (HoD/CSE). Students from third year Computer Science participated in the expo. A total of 8 projects were demonstrated. Around 50 students from junior batches visited the exhibition. Over-all Coordinator was Mr. Roshan Sanu.Y, (AP/CSE).





ASET ACTIVITIES

Field Visit – Ahalia Solar Plant

A field visit to the 1 MW Solar Plant in Ahalia Campus was organized by the Innovation and Entrepreneurship Development Centre (ASET–IEDC) in association with Institution's Innovation Council (IIC) and IEEE Student Branch of Ahalia School of Engineering and Technology on 17 th February 2021 from 10.00 a.m. to 12.30 p.m. 73 students and 7 faculty members from various departments participated in the program (7 IEEE members). The students were taken in two batches and the installation process of the plant was explained by the officials from Ahalia Alternate Energy Pvt. Ltd. The topics covered include: basics of solar panels, components used, PV modules, connections to inverter and transformer, cabling, earthing and lightning protection. Overall, the students enjoyed the visit and it was an opportunity for them to learn the various aspects of a solar plant in a detailed manner







ASET ACTIVITIES

Placement Training Program

Center for Career Development, Ahalia School of Engineering and Technology organized the following Placement Training Program

1. "Introduction to Inplant training program on Product development using Injection Moulding by CIPET Palakkad Ministry of Chemical & Fertilizers, Govt of India KINFRA II Park, Lakkidi Kootupatha, Ottapalam Palakkad, Kerala on 3rd Feb 2021 from 3.00 p.m. to 4.00 p.m.

2. " Career in Core Engineering " by Mr RAMAKRISHNAN P A NVH Analyst at ASM Digital Engineering Pvt Ltd, Bengaluru and Alumnus of Ahalia School of Engineering and Technology
NVH Consultant at VOLVO Group India, Bengaluru on 6th Feb 2021 from 3.00 p.m. to 4.00 p.m.

3. A session (online) on "Pre Placement Engagement : "Essentials for Competence in Engineering" to give an introductory insight to the recruitment patterns of companies, for the benefit of B.Tech 1st year students, from 12.00 to 12.45 p.m on 8-Feb-2021.







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AHALIA SCHOOL OF PHARMACY



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AHALIA PUBLIC SCHOOL

COURSES AT AHALIA INSTITUTIONS

B.Tech, MBA, B.Pharm, BAMS, DNB, B.Sc Optometry, M.Sc Optometry, B.Sc MLT, LKG - XII, Diploma Courses

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ASET NEWS

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ASET NEWS

Vol 7 Issue 3
March 2022

VISION

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

IN THIS ISSUE...

Principal's Message 3

Placements - Students placed in various companies 3

Staff Writeup 4

ASET Activities 5

EDITORIAL BOARD

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Ms. Soumya Sree M. - S5, CE

PRINCIPAL'S MESSAGE

WORLD ENGINEERING DAY FOR SUSTAINABLE DEVELOPMENT



Dr. P. R. Sreemahadevan Pillai
Principal

The World Engineering Day for Sustainable Development was proclaimed by UNESCO at its 40th General Conference in 2019. It is celebrated worldwide on 4th March of each year since 2020 as a UNESCO international day of celebration of engineers and engineering. The day offers an opportunity to highlight engineers and engineering's achievements in our modern world and improve public understanding of how engineering and technology are central to modern life and for sustainable development. The World Federation of Engineering Organizations (WFEO) is an international non-governmental organization representing the engineering profession worldwide. Founded on 4 March 1968 under the auspices of UNESCO, WFEO brings together national and regional engineering institutions from some 100 nations and represents more than 30 million engineers. WFEO led the proposal to declare 4th March each year as the World Engineering Day for Sustainable Development (WED) and is working with communities around the world to celebrate this day.

Engineering always had an essential role in development and human welfare. Ensuring that future generations of engineers and scientists will be able to design solutions for local and global challenges is critical. UNESCO proclaimed this day to raise awareness of the role of engineering in modern life, which is essential to mitigate the impact of climate change and advance sustainable development. In spite of the importance of engineering for our life and future, women have been historically underrepresented in engineering fields, typically making up only 10 – 20% of the engineering work force. Even in countries where the numbers of women studying increased, this trend has not translated into more women entering the workplace. Too many female students who graduate do not go into the engineering profession. The barriers are often connected to persistent gender stereotypes in this field, inadequate policies or educational environments that do not meet their needs and aspirations. UNESCO is placing a high priority on activities that promote awareness of engineering as a career, as well as on those that demonstrate the importance of youth studying science, technology, engineering and mathematics (STEM). UNESCO Engineering Report highlights the crucial role of engineering in achieving each of the 17 SDGs. It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs. It provides a snapshot of the engineering innovations that are shaping our world, especially emerging technologies such as big data and AI, which are crucial for addressing the pressing challenges facing humankind and the planet. Engineering has helped to shape the world for millennia and now more than ever, the world needs engineering. Let's equip our new generation to face the challenges of growth and development.

STUDENTS PLACED IN VARIOUS COMPANIES

Congratulations to our students for being placed @ QUEST



Ullas A. P.
B. Tech - CSE
(2018 - 22)



Sanjay S.
B. Tech - CSE
(2018 - 22)

THE INEXTRICABLE DUO



Anand Haridas
Asst Prof. - CSE

The search to locate the unseen, elusive, over hyped entity called mind has rendered many a souls, body less. This happened centuries back during the old age phase when the humans started developing an unquenched penchant for locating the ever evasive organ rather entity called - mind. In the quest to find out this non tangent entity many human bodies were ripped open and analyzed upon. Unfortunately all these searches turned out to be a recurrent failure, as no one could find any unusual, peculiar organ or at least a node that could be called -mind, other than the usual organs and glands a human body contains. Over the course of time this search has turned out to be a 'fiercely vicious' one and it still keeps looping with no end in sight. Perhaps this endeavor to find out this ever elusive entity called mind could rightly be termed as a classic 'wild goose chase'. As the mind is a non-entity that exists in combination with soul, it would be virtually impossible and impractical to differentiate it from the soul.

Mind could rightly be considered as a domestic database or a repository contained within a soul that has unlimited container capacity to that extend where this repo could store even the minutest of experiences and thoughts that the soul ever had over the innumerable re incarnations on this planet earth. These thoughts and experiences can be retrieved and revisited upon, but it requires acute power of mental focus gathered over a prolonged period of time. When this focus is literally red hot, gradual retrieval of bygone happenings and incidents from distant memories are possible. This would unequivocally justify the basis and authenticity of the psychic practice of 'past life regressions' pioneered by Dr Brian weiss, a US hypnotherapist. Memory recalls can be considered as a bi directional procedure as it can also be used to peep into the future by gaining access to the vastness of infinity often termed as 'Akashic records', which can be perceived as an ocean of memories, both past and future.

An attempt at peeping into this 'ocean of memories' by we, the commoners would be highly fatal at times as it could reveal the memory of various deeds, mostly wicked that has been done by us under various identities spread over innumerable lifetimes. These seemingly disturbing memories alone would be sufficient enough to turn a sane being into an insane being almost instantly who would no longer be rationality-driven, rather would be impulsive. And as an imminent payback, would meet with an intellectual cessation albeit at a gradual pace and might gradually start vegetating.

Mind, in other term is a 'soul shadow' that never leaves the soul, no matter in which realm it is in. Just like the shadow that we cast in this material realm never leaves us regardless of who we are and what our deeds are, akin to it the mind simply follows the soul regardless of the realm it is in. As the soul leaves the physical body after the inevitable end, the memories too are taken away from the brain as the brain is just an organ that facilitates the process of memory interpretation. This could be considered as a process very similar to the way the computer system interprets the information from the hard disk. A computer system retrieves the memory contents from a hard disk and unveils it with the help of a display unit and though it is the display unit of computer that is interpreting the memory contents, it never is the real custodian of this memory contents, but it's the hard disk. Similarly the memories that are contained in the mind are interpreted with the help of the organ- brain, though the real custodian of memory is never the brain, but the mind.

Subsequently when time and all other dependent factors are conducive, the soul decides to take a reentry from subtle realm into this material realm through a reincarnation. As part of this the soul brings along, rather accompanies with it the humongous baggage of memory that has been collected from its various encounters with various worldly beings at various time strata on this physical plane. The memory baggage includes not only the minutest of sensations that it had experienced across various strata, but also the essence of the acts that was responsible for bringing back the soul to this planet earth in the identity of a human, yet again. Thus in a way the inextricable duo- soul and mind, are indeed a pair of compass that constantly safe guards and would lead us towards the direction of divinity when used rightly and justly....

MoU SIGNING CEREMONY





Ahalia School of Engineering and Technology signed a Memorandum of Understanding with Stahlkind Pvt. Ltd, 1Kanjikode on 08 February 2022.





Ahalia School of Engineering and Technology signed a Memorandum of Understanding with Steelmax Rolling Mills Limited on 09 February 2022.



Ahalia School of Engineering and Technology signed MoU with LifeTree Agro Foods Pvt. Ltd. on 11 February 2022.

EXPERT TALK ON 'PROCESS OF INNOVATION DEVELOPMENT & TECHNOLOGY READINESS LEVEL (TRL) & COMMERCIALISATION OF LAB TECHNOLOGIES & TECH TRANSFER'

The Institution's Innovation Council in association with the Innovation and Entrepreneurship Development Centre of Ahalia School of Engineering and Technology conducted an expert talk on "Process of Innovation Development & Technology Readiness Level (TRL) & Commercialisation of Lab Technologies & Tech Transfer" on 10.02.2022. The session was handled by Dr. K Lakshmi, Professor and Head, Department of Electrical and Electronics Engineering, Srikrishna College of Technology, Coimbatore. The speaker first explained about innovation development and the various processes involved in developing a new product. She explained the various stages in detail and emphasized on those stages where the mentors can provide the required guidance to students. The speaker then explained about Technology Readiness Levels. TRL's measure the maturity level of a technology throughout its research, development and deployment phase progression. TRL's are based on a scale from 1 to 9, with 9 being the most mature technology. The last part of the session dealt with commercialisation of technology and tech transfer. Technolo-



gy transfer, or Tech Transfer a.k.a. transfer of technology (ToT), is a process in which technology or knowledge developed at one organisation is transferred to another, typically for the purpose of commercialisation. Technology transfer can be accomplished through a variety of methods including licenses to use protected intellectual property, and may also include exchange of know-how and materials. Commercialising technology requires the ability to identify potential markets, develop products that satisfy those needs, and manage distribution channels. The session was extremely informative.
Around 53 participants attended the event.

WORKSHOP ON 'DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN'

The Institution's Innovation Council in association with the Innovation and Entrepreneurship Development Centre of Ahalia School of Engineering and Technology conducted a half day workshop titled "Design Thinking, Critical Thinking and Innovation Design" on 05.02.2022. The workshop consisted of two sessions. The first session was handled by Dr. Bharati Raj, Assistant Professor, N.S.S. College of Engineering, Palakkad and second session was handled by Dr. Praseeda K.I. Assistant Professor, N.S.S. College of Engineering, Palakkad. Design thinking represents a set of cognitive, strategic and practical processes by which design concepts are developed. Critical thinking can provide a way to alter our mindset in order to improve the way we think of problems or situations which subsequently reflect positively on our decisions.



Dr. Bharati Raj, in her session, came up with a no: of exercises to invoke the critical thinking ability of the students. The session also dealt with techniques for improving critical and design thinking. The session was highly interactive and extremely thought provoking.

The second session by Dr. Praseeda K.I. emphasized on the importance of creativity in innovation design. In the session the speaker showed various examples of creative thinking that has led to innovative designs. The participants were made to do exercises to improve their creative thinking skills. The session was highly interactive and inspiring. Around 114 participants attended the event.

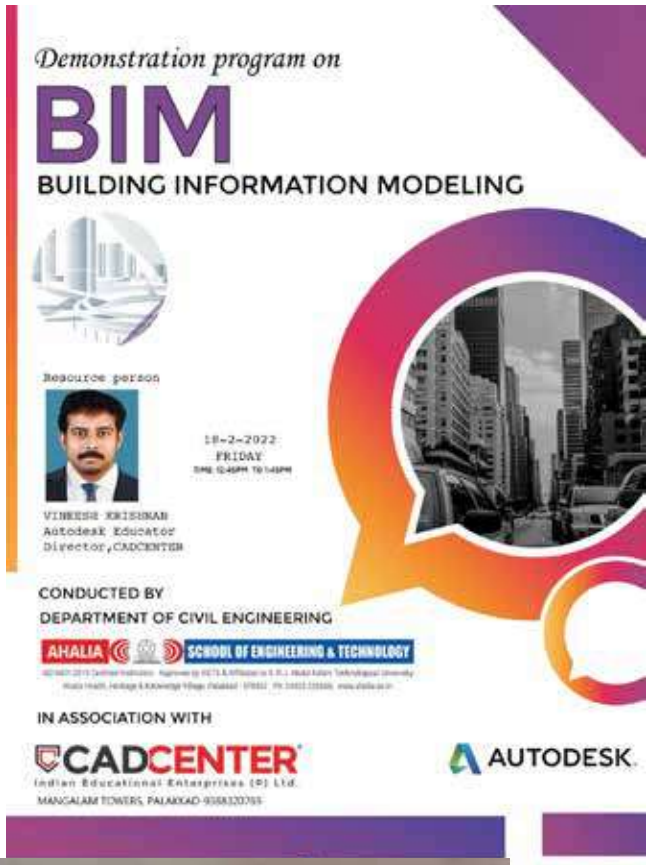
MOTIVATIONAL SESSION BY MS. MADHUMITA DINESH

The Institution's Innovation Council in association with the Innovation and Entrepreneurship Development Centre of Ahalia School of Engineering and Technology conducted an online motivational session titled "REWIND-To an Ecofriendly Life style" on 31.01.2022. The session was handled by Ms. Madhumita Dinesh (innovator, entrepreneur and founder -REWIND). REWIND is a social venture which works with deserving artisans from Palakkad to make upcycled products. The idea behind the venture is to reduce, reuse and recycle the most routinely abandoned items such as fresh fabric scraps, newspapers, office papers etc. These are converted into functional decors for home, office and festival gifting. In the talk, the speaker shared her journey as a social entrepreneur with her venture Rewind. She spoke about the motivation, ideation, challenges and opportunities associated with it. The speaker shared her experiences, her journey and the motivation that finally culminated in "REWIND". Her passion for eco-friendly lifestyle prompted her to volunteer for education outreach programs during her free time. She began her endeavor by conducting workshops for children on the concept of up cycling. She then collaborated with IIT Palakkad to help them reuse the huge amount waste paper being generated as a part of office usage.

This successful collaboration motivated her to think differently and led to the formation of "Rewind" in 2019. The idea behind Rewind is to promote alternative thinking in eco-friendly products. Through the talk the speaker threw light on her struggles and how she persisted till she achieved her dreams. She motivated the students to think differently and aim at being Innovators and Entrepreneurs. The session was highly interactive and inspiring. A total of 48 participants attended the event.

DEMONSTRATION PROGRAM ON BIM-BUILDING INFORMATION MODELING

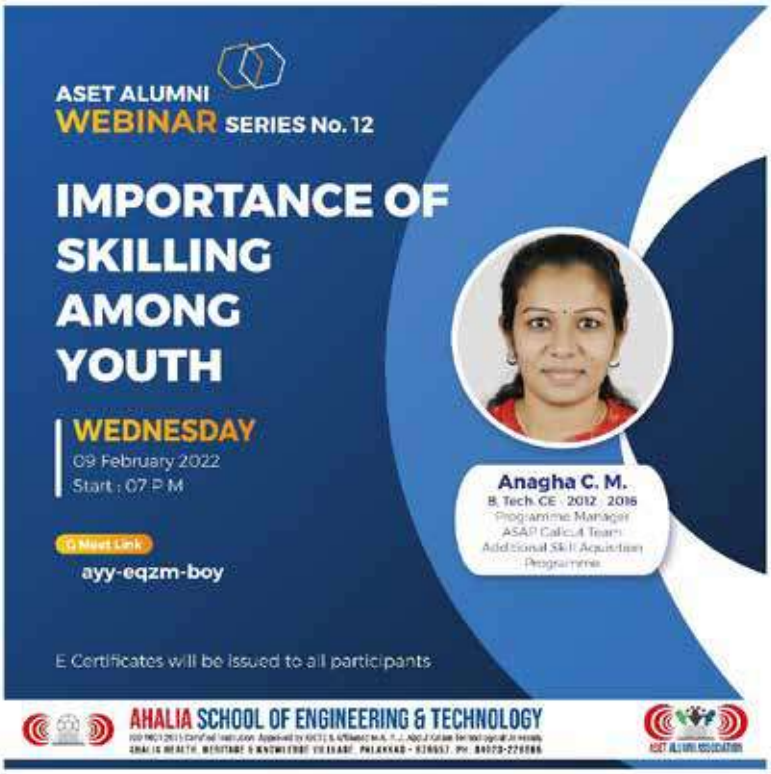
The Civil Engineering Department of Ahalia School of Engineering and Technology organized a Demonstration Program on "BIM-Building Information Modeling" on 18 th February 2022 at 12.45 PM. Ms. Keziya Aliya Peter of Fifth semester Civil Engineering gave the welcome address. The session was handled by Mr.Vineesh Krishnan, Autodesk Educator, Director, CAD Center Palakkad. He spoke about the importance of various civil engineering softwares like Auto-cad 2D, Autocad 3D and Revit and gave a demonstration on these softwares. The session also dealt with the importance of project management in the construction industry and gave a demonstration on management software like Primavera. Altogether it was a fruitful session that helped students in BIM exposure and to get an idea about career prospects in BIM. Ms. Jemshiya M of Fifth semester Civil Engineering gave the vote of thanks. 68 participants attended the event.





ASET ALUMNI WEBINAR SERIES

ASET Alumni association organized a webinar on the Topic **"Importance of Skilling Among Youth"** on 09 February 2022. The session was handled by Ms. Anagha C.M B.Tech CSE, 2012-16 Batch, Programme Manager ASAP, Calicut Team.



ASET LITERACY CLUB INAUGURATION



Ahalia School of Engineering and Technology set up ASET Literary Club to promote literary talents in students as well as to enhance their communication skills. The club was inaugurated by the renowned author and activist, Shri C. R. Neelakandan on 21 February 2022. International Mother Language Day Celebrations was also done during this event. The guest of honour emphasised on critical thinking and how decisions should be made based on wisdom rather than mere information. The accumulation of information and it's transition to knowledge and wisdom revolves around literature. He also said exposure to literature in any form or language transforms people to be rational thinkers and contributors to society.

Dr. P. R. Sreemahadevan Pillai, Principal, ASET, presided over the event and Dr. Krishna Kumar Kishor offered the felicitation address. Prof. Chippy Binoy, staff coordinator of ASET Literary Club, welcomed the gathering, Mr. Rishikesh, S1, CE, introduced the chief guest to the participants. Ms. Vydoorya, S1, ME, offered Vote of Thanks. Ms. Nithyasree, S3, ECE anchored the program and the event was coordinated by Ms. Bindu Valoor, Manager Academics Outreach.

PARTICIPANTS OF VALUE ADDED COURSE BY DEPT. OF CSE

The programme was conducted as part of providing value added courses to the students by the Department of Computer Science and Engineering in association with IEEE student branch ASET and IIC. The aim was to provide the basics of programming using Python among the students of ASET irrespective of their branches. Python is an interpreted high-level general- purpose programming language, consistently ranks as one of the most popular programming languages. We had a well defined syllabus covering all the relevant aspects of the language. Study materials and class recordings were provided via dedicated google classroom. Transparent assessment for evaluating the performance and hands-on training for all the topics. Certificates were issued for the successful completion of the course. The programme was coordinated by Mrs. Rabeena T M (Assistant Professor, Department of CSE) and Mr. Nandu S (Assistant Professor, Department of CSE) was the Instructor. The course was started in 11/09/2021 and ended with final assessment in 02/02/2022. The assessment was done by Mrs. Aswathi P V, Mrs. Sruthy Sukumaran, Mrs. Rabeena T M (Assistant Professors, Department of CSE). There were 13 students from different branches and all of them completed the course successfully.



PARTICIPANTS OF VALUE ADDED COURSE BY DEPT. OF CE

The main objective of this course is to train the students to develop their skills and knowledge to design Civil Engineering components with the help of AutoCAD software and become a successful professional. Thus they will be capable for submitting building dra wings for the obtaining permits from the government and its related works. There were a total of 41 students registered for this course. The course was co-ordinated and handled by Vivek V S, AP/CE ASET. The course includes both lecture and tutorial sessions.



ATL MENTORSHIP: INSTITUTION'S INNOVATION COUNCIL MHRD, GOVERNMENT OF INDIA INITIATIVE



The Institution's Innovation Council (IIC) under the Ministry of Education Initiative has selected Ahalia School of Engineering and Technology (ASET), Palakkad, as a Mentor for ATL School Linkage Scheme. Through this mentorship program, we'll be able to guide the students of IIC member schools. Triggering curiosity in students through ATL Tinkering Lab activities is the main objective of this mentorship. We intend to make students curious to explore applications of STEM concepts.

ASET representative in discussion with Rev. Fr. Philips Panackal CMI, Principal and coordinators of Bharathmatha HSS, Palakkad regarding initiating the mentor-mentee activities.



ASET representative at ATL Tinkering Lab of Kendriya vidyalaya Olavakkode.Had a fruitful discussion with Shri. Piara Lal, Principal and Shri. Randheer V., ATL Tinkering Lab coordinator regarding initiating mentoring activities from April 2022.

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AHALIA AYURVEDA MEDICAL COLLEGE HOSPITAL



AHALIA SCHOOL OF MANAGEMENT



AHALIA SCHOOL OF PARAMEDICAL SCIENCE



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ASET NEWS

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IN THIS ISSUE...

Principal's Message 3

Placements - Students placed in various companies 4

Staff Writeup 5

ASET Activities 6

Book Publication by Faculty Members 18

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PRINCIPAL'S MESSAGE

WORLD LAUGHTER DAY



Dr. P. R. Sreemahadevan Pillai
Principal

World Laughter Day was begun on 11 January 1998 by Dr. Madan Kataria, founder of the worldwide Laughter Yoga Movement. Now it is celebrated worldwide on the first Sunday of May. Dr. Kataria, a family doctor in India, was inspired to start the Laughter Yoga movement in part by the facial feedback hypothesis, which postulates that a person's facial expressions can have an effect on their emotions. The celebration of World Laughter Day is a positive manifestation for world peace and is intended to build up a global consciousness of brotherhood and friendship through laughter. It is most often celebrated by gatherings of people in public places with the sole purpose of laughing. Its popularity has grown exponentially with that of the Laughter Yoga movement now counting thousands of Laughter Clubs in more than 115 countries.

It is well said that the strongest and most powerful emotion of the living beings called laughter has all healing properties within it. Laughter is the perfect remedy with all the required ingredients for the healthy life. Laughter can change the mental state of its beholders as well as the receiver. Based on the above facts, the concept of Laughter Yoga was introduced world wide and large number of people benefited from this unique curative therapy. Laughter yoga showed an exponential growth and became popular world wide. It resulted into 6000 Laughter Clubs worldwide on all the 5 continents. The popularity of laughter therapy introduced World Laughter Day. World Laughter Day is celebrated across the world with an aim of promoting world peace, brotherhood and friendship among all. This day reminds the society that laughter is the best medicine to ward off dangers of modern day monotonous and mechanized lifestyles. People from different walks of life celebrate World Laughter Day with great enthusiasm crossing all social, professional and personal barriers. Different Laughter clubs organize special programs on World Laughter Day which include mass laughter session, peace rallies, blood donation camps, free BP & diabetic tests, jokes and different competitions related to laugh, etc. A good laugh has great short-term effects. When you start to laugh, it doesn't just lighten your load mentally, it actually induces physical changes in your body.

Laughter can:

• Stimulate many organs. Laughter enhances your intake of oxygen-rich air, stimulates your heart, lungs and muscles, and increases the endorphins that are released by your brain.

• Activate and relieve your stress response. A rollicking laugh fires up and then cools down your stress response, and it can increase and then decrease your heart rate and blood pressure. The result? A good, relaxed feeling.

• Soothe tension. Laughter can also stimulate circulation and aid muscle relaxation, both of which can help reduce some of the physical symptoms of stress. Laughter isn't just a quick pick-me-up, though. It's also good for you over the long term.

Laughter may:

• Improve your immune system. Negative thoughts manifest into chemical reactions that can affect your body by bringing more stress into your system and decreasing your immunity. By contrast, positive thoughts can actually release neuropeptides that help fight stress and potentially more serious illnesses.

• Relieve pain. Laughter may ease pain by causing the body to produce its own natural painkillers.

• Increase personal satisfaction. Laughter can also make it easier to cope with difficult situations. It also helps you connect with other people.

• Improve your mood. Many people experience depression, sometimes due to chronic illnesses. Laughter can help lessen your depression and anxiety and may make you feel happier.

So, let us not limit our laugh to the Laughter Day; laugh every day, for a longer healthy life.

STUDENTS PLACED IN VARIOUS COMPANIES





METAVERSE - THE SECOND LIFE



Anand Haridas
Asst Prof. - CSE

Ever since the online super giant -facebook rechristened itself as –meta, there has been an exponential surge in the number of people, peeping into the virtual world purely for the pleasure that an anonymous indulgence gives them. Rather it offers a second chance at reliving life the way they want in an altogether customized avatar that would be way apart from the kind of real self the person is in actuality. Metaverse offers life within a life rather a concentric life that would at times be difficult to differentiate due to the sheer power of captivation that keeps the avatars hooked on to this non-real and nonexistent world just like the Chinese were once kept viciously hooked to the opium decades back. The advanced and evolved form of metaverse would be even more difficult to differentiate from the actual world due to the blurring boundaries that would eventually melt into the highly compact sphere of oneness of fantasy with no way out from this imaginary living that would eventually culminate as a catastrophe.

A metaverse is a very large network of multidimensional virtual worlds focused on social connection and virtual 'catch-ups' that is often anonymous and veiled. In futurism and science fiction, it is often described as a hypothetical iteration of the Internet as a single, universal virtual world that is facilitated by the use of virtual and augmented reality devices such as cloners that are capable of replicating the actual environment that would be strikingly similar to the original environment from which it has been cloned. The metaverse would create a replica of actual world devoid of reality and one which is ruled by fantasy, just like a banana republic that has no future of its own and whose tomorrow is dependent on the present state of its preacher, something which would be of a grave concern for the rest.

The term 'metaverse' originated in the early 90s through the acclaimed science fiction - Snow Crash. It, more or less is a confluence of 'meta' and 'universe.', which literally means a nonexistent, imaginary zone governed by few or no concrete laws. Various metaverses have been developed over the years for the popular use such as virtual world platforms like Second Life. Some metaverse clones could be considered as a hybrid metaverse that involve integration between virtual and physical spaces and virtual economies thereby providing an extended and at times a seamless virtual experience. Metaverse is often closely linked to the virtual reality technology as it could be considered as the base technology on which metaverse exists, rather virtual reality sets the platform for metaverse to flourish with the help of allied technologies, prominent being AR.

User addiction and the associated socio aftermaths has been the one major concern ever since the meta world came into existence. The Internet addiction has been taken to the next level with the advent of meta technologies, the seemingly debilitating meta-disorder could have a larger repercussion on the society which would become visibly evident with the advent of time, perhaps this would be a time zone that would no longer have any geographical and physical boundaries but only avatars that are deceptive and that can create a deception saga that could span through the ages and through the geographies, which would have become irrelevant by then. Meta offers a non bifurcated unlimited multidimensional space where transactions happens not through the usual monetary components, but with the help of exclusive meta tokens that would become more relevant than US dollar in a matter of years. Social catch ups would become an easier and a non hectic activity where people rather avatars could freely meet up and exchange their thoughts at the luxury and comfort of their living space and this kind of virtual experience would be exhilarating and seamless, but with this comfort comes the biggest hurdle –the mistrust. This stumble block of mistrust that arises out of 'deliberate anonymity' created at the whims and fancies of the meta-participants would eventually paint this virtual space dark and would mutate this nonexistent virtual space more or less into a shrink dark world devoid of humanism….

ASTRONOMY AND ASTROLOGY

Tech Talk Series 003: Astronomy and Astrology, was organized in association with IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 05 April 2022.



Dr. P. R. Sreemahadevan Pillai, Principal, ASET was the resource person. The session dealt with the evolution of Indian & Western Astronomy and Astrology. While astronomy is based on facts, astrology holds on to beliefs too. There was a productive interaction with the participants after the initial talk.

The event was presided over by Dr. Balamurugan V., HoD, Dept. of Electronics & Communication Engineering, ASET, Prof. Dhanesh S., Coordinator, Ahalia Astronomy Club offered the welcome address. Ms. Bindu Valoor, Manager Academics Outreach proposed the vote of thanks.

Tech Talk Series is an initiative of Ahalia School of Engineering and Technology, Palakkad, which explores relevant topics that prompts the participants to ponder deep, thereby igniting critical as well as creative thinking.



PROVISIONAL NAAC ACCREDITATION

Tech Talk Series 004: Provisional NAAC Accreditation was organized in association with IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 12 April 2022.



Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Ahalia Group Academic Institutions was the resource person. He is one of the sought-after NAAC & NBA assessors from Kerala.

He briefed about the Provisional NAAC Accreditation (PAC) that will help institutions to get themselves accredited and also prepare for graded NAAC accreditation. The participants' queries were addressed in the Q & A session. More than 150 participants attended the program.

The event was presided over by Dr. Murugananth G., Secretary, ISTE Ahalia Chapter & Coordinator, ASET IQAC. Dr. Mahima Ganeshan, President, IIC, ASET offered the welcome address. Prof. Sangeetha P. S., Joint Secretary, ISTE Ahalia Chapter expressed the vote of thanks. Master of Ceremonies, Ms. Glind Baby, S1, EEE actively hosted the program. Ms. Bindu Valoor, Manager Academics Outreach, Ahalia Group, coordinated the event.

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INDUSTRIAL VISIT

Industrial visit was held on 4 April 2022 by Final Year B. Tech. EEE Students to The Palakkad Small Hydro Company Ltd., Meenvallom. Initially there was a presentation on the domestic and global opportunities for the EEE students and various other aspects of the electrical power station in Meenvallom. Assistant Engineer Mr. Ranju and Mr. Anand graced the occasion with their presence. They also shed light on the various policies and steps taken in the direction to flourish the Indian power industry and make it compete with the national market. During the industrial visit the following points were discussed:



- Validation & testing techniques.
- Research & development breakthrough.
- Manual & automatic testing methods.
- Working of breakers
- Working of governor
- Insight of transformers
- Insight of overloading problems/de fects.
- Inverter & UPS mode working.
- Working of hydroelectric power plant

Mr. Subhin Cahako, Ms. Veena Raj and Ms.Swathy M., faculty of the EEE Department accompanied the students for the visit.

AIJAST VOL. 1 ISSUE 3 RELEASED

ASET released the third issue of AIJAST. The Ahalia International Journal of Advanced Science and Technology is a peer reviewed, refereed half yearly international journal that provides publication of the articles in all areas of engineering, science, technology, medicine, environment, management etc., through research and its relevant appropriation- and inferntial applications.



ACADEMIA - INDUSTRY INTERACTION

As the part of Industrial Visit for teachers, the staff of Ahalia School of Engineering and Technology visited Steelmax Rolling Mills Ltd., Kanjikode.

Thanks to the Steelmax team for taking us around the factory, explaining every process in detail and providing excellent hospitality.

Er. Shabir, Director, Steelmax Rolling Mills Ltd., interacted with the faculty team and gave a presentation








INVITED TALK ON 'BLOCKCHAIN-ENABLED SAFFRON SUPPLY CHAIN SYSTEM'

As a part of Industry-Academia linkage, Ahalia School of Engineering and Technology in association with IEEE, ISTE, IIC, IEDC & NDLI CLUB organized an expert talk by Dr. Amit Agarwal, Technology Director, Koyo Software Solutions. He wonderfully explained how a Block chain-enabled supply chain management system can change the lives of saffron farmers in India. This technology can be used in other agricultural sectors too. Quite an insightful session and excellent audience interaction thereafter.

After the session, the faculty team interacted with Dr. Amit Agarwal to discuss the avenues where students can be involved in projects and processes for better practical exposure.

Mr. Akshay K. S. S8, CSE offered the welcome address. Prof. Sunitha, AP, S & H hosted the event.









THRUST AREA: INTERNAL HACKATHON

Ahalia School of Engineering and Technology organized an Internal Hackathon for the students to participate in Smart India Hackathon on 11/04/2022. The event commenced at 10 a.m. in the morning and three jury members graced the occasion. In total, 5 groups participated in the competition. Jury members expressed satisfactory suggestions to all the groups and it was decided to take all the groups to next level of competition.











NAAC SSR SUBMISSION WORKSHOP



IQAC team of Ahalia School of Engineering and Technology presented the ASET NAAC Self Study Report for review by all stakeholders on 23 April 2022.

All staff members of ASET, representatives from other Ahalia academic institutions, Operations Manager and Finance Manager attended the presentation.

The event was presided over by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. The felicitation address was offered by Dr. Krishna Kumar Kishor, Vice Principal, ASET. Dr. G. Muruganantha, Prof. and Head, Dept. of EEE, welcomed the audience. Dr. John Alexis, Professor, ME offered the vote of thanks.

All seven criteria were presented by the following criteria coordinators;

Criterion 1: Prof. Sruthi Vishwanath, AP, EEE

Criterion 2: Prof. Aneesh, AP, ECE and Prof. Dheeraj, AP, ME

Criterion 3: Prof. Divya Mohan, AP, ECE

Criterion 4: Prof. Roshan Sanu Y., AP, CSE

Criterion 5: Prof. Prabha, AP, SH

Criterion 6: Prof. Neethu John, AP, CE

Criterion 7: Prof. Vivek Gopi, AP, ME

WHAT TO DO AFTER 12th STANDARD?

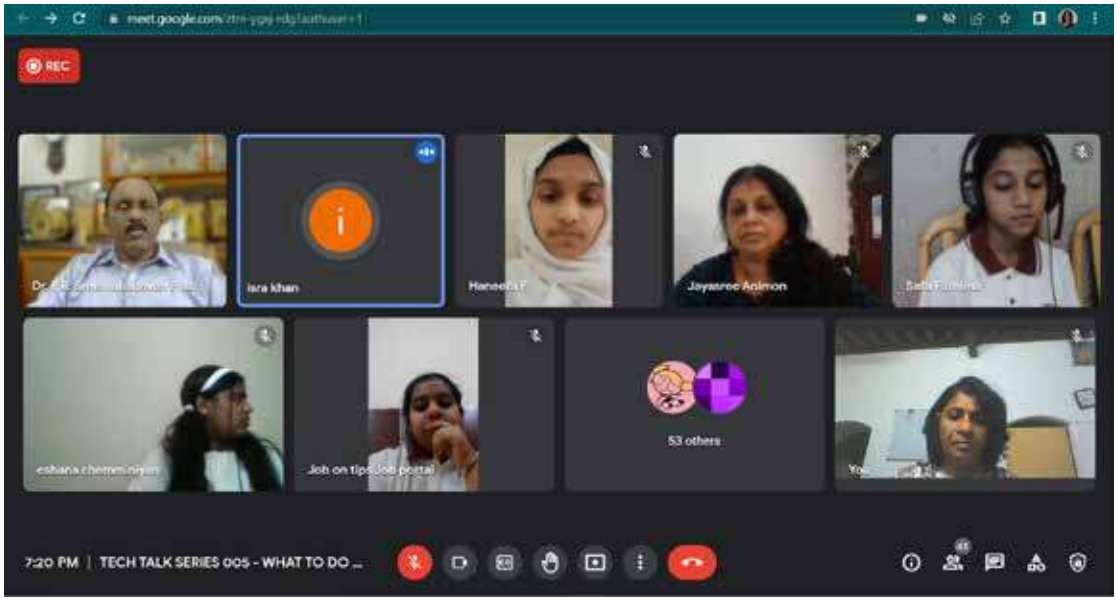
Tech Talk Series 005: What to do after 12th Standard? was organized in association with IEEE, ISTE Ahalia Chapter, IEDC, IIC, ASET IQAC, ASET NDLI CLUB on 27 April 2022.



Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Ahalia Group Academic Institutions was the resource person. He had been offering career guidance sessions for school and college students for decades. In this interactive session, students and parents asked course and career specific questions, which were clarified in detail by the resource person. 100 participants joined the session which included the students from various schools in India and abroad.

The event was presided over by Dr. Binoy Balan, HoD, S&H, ASET. Ms. Hardhi S., Secretary, ASET Alumni Association offered the welcome address. Ms. Bindu Valoor, Manager Academics Outreach, Ahalia Group, expressed the vote of thanks.

Tech Talk Series is an initiative of Ahalia School of Engineering and Technology, Palakkad, which explores relevant topics that prompts the participants to ponder deep, thereby igniting critical as well as creative thinking.



LAPTOPS DISTRIBUTION

The gift laptops provided by the Govt. of Kerala to the meritorious students of Ahalia School of Engineering and Technology was distributed by Mr. Shafi Parambil, MLA Palakkad, during the freshers day celebrartion of Ahalia Group of Institutions on 28th April 2022.











THARANGAM 2022

The first year students of all Ahalia Academic Institutions were treated with the music performance THARANGAM 2022 on 28 April 2022 at AWACH Auditorium as a part of Freshers Day. Smt. Sriya Gopal, Director, Ahalia Group, Heads of Ahalia Institutions, and Executive Director lighted the lamp. Heads of the institutions briefed about the campus and facilities.











FINANCIAL FREEDOM

The session on financial freedom was conducted by ASET IEDC for the third year students.The session was handled by our Alumnus Mr. Ardhath. The speaker shared his experiences on how to take the initial steps to achieve the financial freedom.







WORKSHOP ON ANSYS

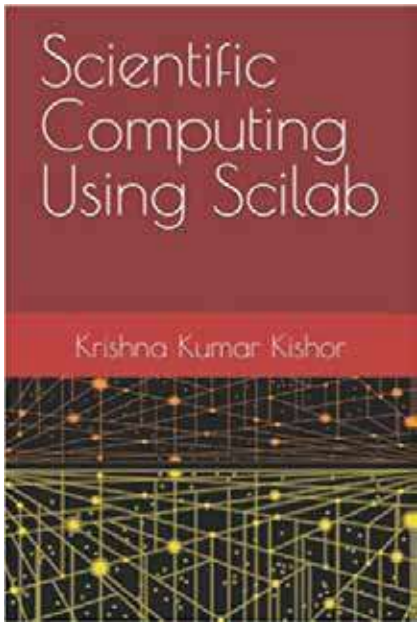
Dept of Mechanical Engineering in association with CAD centre Palakkad conducted a workshop on ANSYS from 04 April 2022 to 26 April 2022.for the final year Mechanical Engineering students.



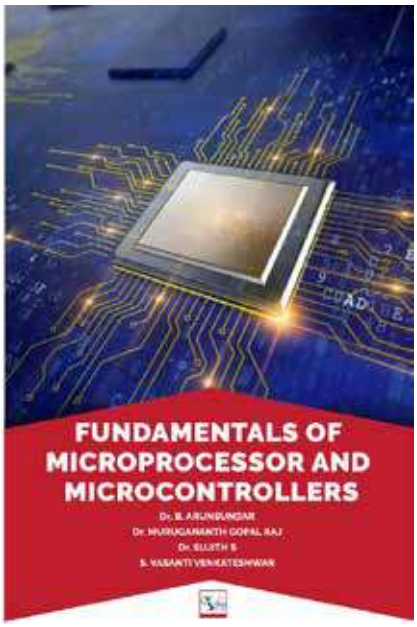




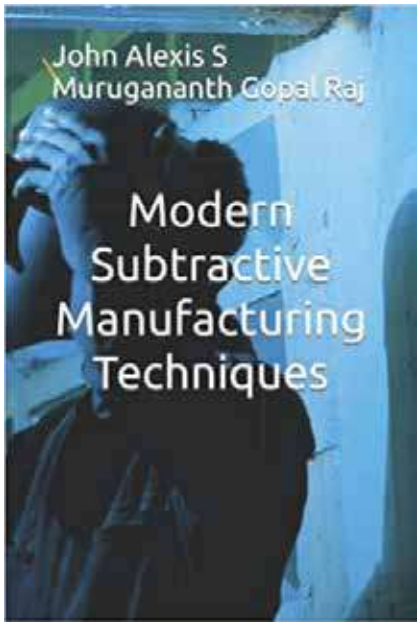
BOOK PUBLICATION BY THE FACULTY



Dr. Krishna Kumar Kishor, Executive Director – Ahalia Academics, Vice Principal – ASET, Ahalia School of Engineering and Technology Authored the book titled, " Scientific Computing Using Scilab",published by Amazon.



Dr. G. Murugananth, Prof & Head - Dept. of EEE, Ahalia School of Engineering and Technology Co-authored a book titled, " Fundamentals of Microprocessors and Microcontrollers", along with Dr. B. Arun Sundar, Dr. Sujith S, Ms. Vasanti Venkateshwar, published by Scientific International Publishing House.



Dr. S. John Alexis, Professor of ME, Ahalia School of Engineering and Technology Co-authored a book titled, " Modern Subtractive Manufacturing Techniques", along with Dr. G. Murugananth, Prof & Head - Dept. of EEE, Ahalia School of Engineering and Technology, published by Amazon.

AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

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AHALIA AYURVEDA MEDICAL COLLEGE HOSPITAL



AHALIA SCHOOL OF MANAGEMENT



AHALIA SCHOOL OF PARAMEDICAL SCIENCE



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AHALIA PUBLIC SCHOOL

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ASET NEWS

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ASET NEWS
Vol 6. Issue 11
November 2021

VISION

Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

MISSION

To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of the-art facilities.

To promote research and consultancy for institution development and contribution to the society.

PRINCIPAL'S MESSAGE

KERALA PIRAVI DAY 2021



Dr. P. R. Sreemahadevan Pillai
Principal

Kerala Day also referred to as Kerala Piravi Day, marks the birth of the state of Kerala in India. The state of Kerala was formed on 01 November 1956, nearly a decade after the Independence of India. Before this, it was three major provinces and several outlying regions under various rulers, viz. South Canara (Kasaragod region), Malabar, Kochi and Travancore. Malabar comprises the northern and north-central region around Kannur, Kozhikkode, Malappuram and Palakkad, with some portions around Thrissur and Kochi. This region had been under the kingdoms of Zamorin of Calicut, Arakkal, Kolathunadu, Tanur, and Valluvanad, with several other smaller feudal states, before being unified by Tipu Sultan. It was then ceded to the British East India Company after the Anglo-Mysore Wars, and first annexed to the British Bombay Presidency, and then replaced to Madras Presidency. The coastal town of Mahe remained a French enclave until the early 1950s when it was integrated into the Union Territory of Puducherry. The central region comprised the erstwhile Kingdom of Kochi, administered from Thrissur. The southernmost province was the Kingdom of Travancore, based in the city of Thiruvananthapuram. While Kochi had been a vassal state under the British Raj, Travancore Kingdom was administered under suzerainty.

Early in the 20th century, following the Mappila (Muslims) revolt in the Kozhikkode region, agitations for political rights and a popular government took place in Travancore and Kochi as well. After India was partitioned in 1947 into India and Pakistan, Travancore and Kochi, part of India, were merged on 01 July 1949 to form Travancore-Kochi. A popular movement known as Aikya Kerala (United Kerala), for the formation of the State of Kerala, gave an impetus to the reorganisation of the state on a linguistic basis. On 01 November 1956, the taluk of Kasargod in the South Canara district of Madras, the Malabar district of Madras, and Travancore-Kochi, without four southern taluks (which joined Tamil Nadu), merged to form the state of Kerala under the States Reorganisation Act. A Communist-led government under E. M. S. Namboodiripad came to power following the first elections for the new Kerala Legislative Assembly in 1957. It was one of the earliest elected Communist governments, after Communist success in the 1945 elections in the Republic of San Marino.

Mythology, however, has it that it was Parashurama, the 6th incarnation of Lord Vishnu, who threw an axe to carve Kerala out. Kerala stretches across 560 km of land, with a width of just 120 km. Kerala is also called God's Own Country for its beautiful beaches and its backwaters. The state has the Arabian Sea at one side while mountain ranges on the other. Kerala is also known for its exotic spices and has attracted foreigners from across the world. Kerala has 94 per cent literacy, one of the highest in India. Kerala is divided into 14 districts with Thiruvananthapuram as the state capital. The earliest Sanskrit text to mention Kerala as Cherapadha is the Vedic text Aitareya Aranyaka. Kerala is truly the undiscovered India. It is God's own country and an enchantingly beautiful, emerald-green sliver of land. It is a tropical paradise far from the tourist trail at the south-western peninsular tip, sandwiched between the tall mountains and the deep sea. Kerala is a long stretch of enchanting greenery. The tall exotic coconut palm dominates the landscape. We, the blessed offsprings of Kerala have pride and privilege in welcoming you all to visit this state, a special gift of nature.

ALUMNI NOW JOINED IN AHALIA



Jithin Benny
2017 - 21 CE
Jr.Civil Engr., PMO



Ajiprakash P. J.
2014 - 18 CSE
Service Engr, IT



Maheeindra Simhan K. U.
2016 - 20 CSE
Service Engr, IT



Sreeram T.
2015 - 19 CSE
Service Engr, IT

STUDENTS PLACED IN VARIOUS COMPANIES




Congratulations
For getting placed in
UST GLOBAL
Vismaya R
2017-21 CSE
Ashok S K
2017-21 CSE
Deepthy Dileep
2017-21 ECE


Congratulations
For getting placed in
UST GLOBAL
K Keerthana
2017-21 CSE
Akshay R
2017-21 CSE
Srilakshmi S
2017-21 CSE
Vigneswaran S
2017-21 ECE
Sneha P
2017-21 ECE


Congratulations
For getting placed in
Tech Mahindra
Gokul R
2017-2021 CSE


Congratulations
For getting placed in
U · S T
Devaprasad V
2017-2021 CSE
Akash Shastry G
2017-2021 CSE

VIJAYOSTAV - WINNERS' RENDEZVOUS 2021

HONORING FULL A+/A1 PLUS TWO PASSED STUDENTS FROM PALAKKAD DISTRICT

A program for the appreciation and honoring the full A+/A1 winners from various schools in board exams across Palakkad District was organized by ASET, on 30 th October 2021 at 10.00 a.m at Ahalia AWACH Auditorium. Students from various schools and their parents participated in this function. The program started with prayer. Prof. Vivek Gopi, Assistant Professor, Ahalia School of Engineering and Technology welcomed the dignitaries and the participants to the function. Dr .P. R. Sreemahadevan Pillai, Principal, Ahalia School of Engineering and Technology presided the function. He also congratulated the students for their outstanding triumph and appreciated all the school teachers for their committed effort in shaping up a good result.Shri. K. Krishnankutty, Honarable Minister of Electricity and ANERT Government of kerala inaugurated the Function. Minister congratulated all the students for the remarkable results. He also advised them to maintain the same momentum throughout their journey in future studies. He immensely appreciated ASET for the successful conduct of the event. Shri A. Prabhakaran Member of the Legislative Assembly Malampuzha was the Chief Guest in the Event and he appreciated the efforts taken by staff and students for making the result a virtuous one.Dr. Krishnakumar Kishor Executive Director, Ahalia Group & Vice Principal, Ahalia School of Engineering and Technology also addressed the gathering. Mrs. Sriya Gopal, Director, Ahalia Group; graced the occasion.



Dr. Sheba Sunil Principal, Ahalia Ayurveda Medical College, Dr. Jagadeesh S. N. Principal, Ahalia School of Commerce and Mathematics, Prof. Sreejith Nair Principal, Ahalia School of Paramedical Sciences, Dr. A.J.M. Christina Vice Principal, Ahalia School of Pharmacy, Dr. Venkataramana K. HoD, Ahalia School of Optometry, offered felicitations. Prof. Vijitha Khan, Assistant Professor, Ahalia School of Engineering and Technology proposed the vote of thanks. Ms. Bindu Valoor, Manager-Academics Outreach, Ahalia Group Prof. Prabha, Assistant Professor, Ahalia School of Engineering and Technology Hosted the event. A total of 350 students from various schools participated in the event. The program came to end by 2.00 PM.

VIJAYOSTAV 2021 @ BSS GURUKULAM SCHOOL ALATHUR

Vijayotsav- Winners Rendezvous to felicitate full A+/A1 winners of 2021 plus two examinations of BSS Gurukulam Higher Secondary School, organised by Ahalia School of Engineering and Technology was held on 12 October 2021 at 10:30 a.m. in BSS Gurukulam School Campus. 58 students were honoured by giving mementoes,medals and certificates. Dr. Vijayan Anand, Principal, BSS Gurukulam Higher Secondary School delivered the presidential address.

Dr. P. R. Sreemahadevan Pillai, Director, Ahalia Group Academic Institutions, Principal, Ahalia School of Engineering and Technology, Dr. Jagadeesh S. N., Principal, Ahalia School of Commerce and Mathematics, Prof. Vivek Gopi, Assistant Professor, Ahalia School of Engineering and Technology and Prof. Basil Baby felicitated the winners. Ms. Sreepriya, Teacher, BSS Gurukulam offered the Vote of Thanks.



PERILS OF ORGAN TRANSPLANT



Anand Haridas
Asst Prof. - CSE

Ever since the first successful organ transplant was performed on a human, decades back, there has been a plethora of such organ transplants that has been devoutly recorded in history of mankind as a noble and a godly act that virtually brings back life on to the physical body that was once on the verge of passing out. The organ transplant and the concomitant act of organ donation has more or less become an act of highest sacrifice that could be done on this planet earth. But of late this noble act has been losing its godliness, unbridled, due to the rackets that has started thriving on an excellent fertile land from which harvestations are done, not of veggies or any other consumables but of human organs. Moreover the incapacitating ploy worked out by the unseen entities at a subtle level has started casting shadows of skepticism over this noble act in an even larger way.

Much earlier, medical rules and ethics allowed a person to be declared dead only once the person has died clinically, that is the person has passed out in entirety, but subsequently over the years the rules got amended and a person who is brain dead could very well be declared dead and could be considered for organ harvestations with the consent provided by the dependents of that person. A brain dead person could very much be in a vegetative state and perhaps could be respiring and in such a state the soul is still not freed from the physical body, though the vitality of the physical body can no longer be revived. And when such a physical body is ripped open and harvested of its organs, the soul that is still bound to the physical body will have to witness these gruelsome procedures helplessly as the silver cord that binds the soul with the physical body is not yet cut as the physical body is not yet dead, clinically. Thus the soul undergoes this unbearable and excruciating pain of ripping open the body in utter helplessness.

The soul that has witnessed such a hellish and a horrendous act of ripping open its own physical body would at times choose to attach itself with its new identity, that is the new body, that of the organ recipient, as soul is in a state of extreme undecidedness after experiencing the overly tormentous act of ripping open its physical identity, that has been its vehicle on this earth for many years. Moreover the souls are always governed by their free will, thus once the organ has been harvested from its physical body the lost soul could now decide to cling on to the recipient body and live on through the recipient. If the recipient has a very similar soul vibration with that of the lost soul, the cohabitation could be for a longer duration or even forever.

Ironically the recipient would start a normal life just after getting the new organ without even sensing the presence of a parasite that has got into his physical body along with the new organ. Now this parasite, the lost soul, starts activating itself by gradually drawing out the life force from its new body by taking away the reigns of life from the original custodian of this physical body. It is at this point the custodian would start getting the initial indication of an impending sabotage, rather a possession as he now starts developing an intense craving for strange things that he never had in his life before receiving the new organ. All of a sudden the person develops a penchant for things or indulgences that he never thought before leave alone actually experiencing it. Moreover the recipient gradually starts exhibiting existential polarities albeit at a subtle level. There is yet another possibility something which is less precarious where the lost soul might choose to remain dormant forever in its new identity for whatever reasons, in such a case the host never realizes the presence of a foreign entity and in such contexts the cohabitation would rather be peaceful throughout the lifetime of the recipient.

This doesn't mean to terrify, belittle or devalue the noble and arguably one of the greatest humane act that could possibly done on this earth that of- organ donation. But this literary work makes an earnest attempt at categorically identifying the lurking dangers associated with this noble act only to make ourselves sensitized about the actualities so that we are never taken for a free ride by any of the unknowns, whatsoever. Succinctly, it can be gauged that the perils of organ transplant are two folds, the one seen and the other very much unseen. The rackets that makes a humongous living out of organ trafficking and illicit harvestations very well qualifies to be the peril that happens in broad daylight; the ploy worked out by the lost souls within an organ recipient at a subtle level forms the unseen peril....

എൻ തോഴിമാർ

എൻ തോഴിമാരെ കണ്ടു ഞാൻ
പുളകിതയാവുകയെങ്ങിനെ?
ഇരു വീഥികൾ പോൽ
വളഞ്ഞുപുളഞ്ഞു കിടപ്പതോ...
ജീവിതത്തിൻ നന്മതിന്മയെഴും
വഴിത്താരയും.

എൻ തോഴിമാരെ കണ്ടു ഞാൻ
പുളകിതയാവുകയെങ്ങിനെ ?
നേർക്കു നീണ്ടുപോം ഒറ്റയടിപാതയാം
സ്മൃതിയിലലിയും മൃതി നേരു
ന്നൊരു മോക്ഷ വഴിത്താരയും.

അക്ഷാന്തി പൂണ്ടൊരുനാൾ മൃതി
യെന്നെ തലോടിയതിൽ കലിപൂണ്ടു
ജീവാത്മാവുറഞ്ഞു തുള്ളി...
ഇരുവർ കലുഷക്കളരിയിൽ
രണമൊഴുക്കിയതെന്നാത്മാവും.

ജീവതസഖിതൻ ആക്രോശത്താൽ
വിറപൂണ്ടോടിയ സഖിയൊരുനാൾ
എന്മനതാർ അടക്കിവാഴുവാൻ
കൂട്ടു കൂടുമെന്നതും, ഞാനുമെൻ
വർത്തമാനകാലസഖിയുമറിവൂ ...

എൻ തോഴിമാരെ കണ്ടു ഞാൻ
പുളകിതയാവുകയെങ്ങിനെ ?
കാലത്തിൻ ഏടുകളിൽ ഞാൻ പാടും
ഗാനത്തിൻ വരികൾ കോറിയിടും
ജീവിത സഖിയെൻ ഉത്തമസോദരി...

എൻ തോഴിമാരെ കണ്ടു ഞാൻ
പുളകിതയാവുകയെങ്ങിനെ ?
മായാവിചിന്തനങ്ങൾ ചുറ്റിപ്പിണർന്ന
യെന്നാത്മാവിനു ചിന്തനം നേരുമാ
മരണ സഖിയെൻ കാമുകീ ...

എൻ സഖിമാരെ പിണക്കുവതെങ്ങിനെ ?
എൻ തനുവും , മനവുമവർക്കു നേർ
പകുത്തുനല്കി സ്പർദ്ധയില്ലാ
സഖിമാരിൻ പ്രേമം നുകരും
തേൻവണ്ടായൊരു ജന്മം കൂടി



Sulegha S.
Admin Asst.

IMPACT LECTURE SERIES

A talk on 'Intellectual property rights' and 'Meet the entrepreneur', has been conducted by Institution's Innovation Council of Ahalia school of engineering and technology on 23 September 2021. The second series of this program was conducted on 26th October 2021 at 2.30 p.m. on "Innovations for Entrepreneurship. The whole program was funded by IIC-MHRD.





GETTING YOUR MOBILE APP DONE – A SESSION FOR BUDDING ENTREPRENEURS

Institution's Innovation Council, (IIC) of Ahalia School of Engineering and Technology, Kerala is organized IIC Impact Lecture Series -2 funded by IIC-MHRD on 5th October 2021 at 9.30 am for all faculties, students and research scholars of Colleges and Universities. In this series, talk on "Getting your Mobile App Done – A session for budding entrepreneurs" was delivered.



IEEE MEMBERSHIP DEVELOPMENT SESSION

The IEEE Student Branch of Ahalia School of Engineering and Technology conducted a Membership Development Session on IEEE on 02/10/2021. The session was handled by Mr. Shone Jose, Vice-Chair, Student Activities Committee, Malabar Hub, IEEE Kerala Section.



PHOTOGRAPHY CONTEST CLICK & BLINK

Department of Electronics and Communication Engineering, Ahalia School of Engineering and Technology Palakkad, in association with IEEE Student Branch of Ahalia School of Engineering and Technology and IEEE Women in Engineering Society, conducted a Photography Contest CLICK & BLINK on the theme 'Peace'



SWACHHATA SLOGAN WRITING COMPETITION

The Nature Club, Ahalia School of Engineering and Technology, conducted an online slogan writing competition as part of the Swachatha Pakhwada 2021. The theme of the slogan was 'Conservation of forest'. About 8 students from inside and outside Ahalia Group Of Institutions participated in the competition. E- Certificates were awarded to all participants. The students did excellent works by bringing out their ideas in the conservation of forest.



Winners :

Ist Prize – Diya Krishna. P, Ist year CSE, Ahalia School Of Engineering & Technology ,
Palakkad

IInd Prize – Chandana. K.S, Ist year CE, Jawaharlal College Of Engineering AND Technology, Palakkad



SWACHHATA SPEECH COMPETITION

The Nature Club, Ahalia School of Engineering and Technology, conducted an online speech competition as part of the Swachatha Pakhwada 2021. The topic of the poster was 'Conservation of forest'. About 4 students from inside and outside Ahalia Group Of Institutions participated in the competition. The students were instructed to upload the speech in audio or video format. E- Certificates were awarded to all participants. The students got a chance to bring out their ideas in the conservation of forest.



Winners :

Ist Prize – Diya Krishna.P, Ahalia School Of Engineering & Technology , Palakkad.

IInd Prize – Nithyasree. S, Ahalia School Of Engineering & Technology , Palakkad



SWACHHATA POSTER MAKING COMPETITION

The Nature Club, Ahalia School of Engineering and Technology, conducted an online poster competition as part of the Swachatha Pakhwada 2021. The theme of the poster was 'Conservation of forest'. About 9 students from inside and outside Ahalia Group Of Institutions participated in the competition. E- Certificates were awarded to all participants. The students got a chance to bring out their ideas in the conservation of forest.

Winners :

Ist Prize – S. Padmasree, GMMGHSS, Palakkad

IInd Prize – Sowmyasree, Ahalia School Of Engineering & Technology , Palakkad





IEEE DAY

The IEEE Student Branch of ASET organized IEEE Day Celebrations on Tuesday, 5th October 2021, with great zeal. IEEE Day celebrates the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884.

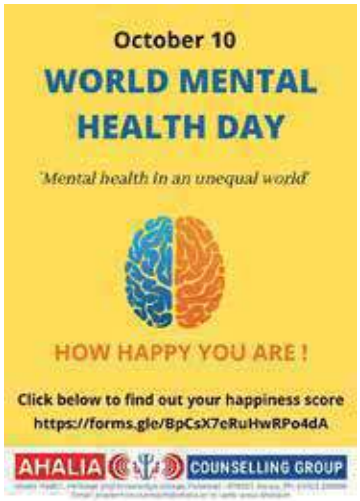






HOW HAPPY YOU ARE..!

October 10 Mental health Day was decided to celebrate by assessing the happiness level of the staff and students of Ahalia campus activity was initiated by Mrs Rinsy M , the Counselling Psychologist of Ahalia. As part of assessment a google form of happiness questionnaire has been circulated the entire campus. 47 percent of responses were from students and 45 percent from staff and the remaining from others(outside campus). Females have responded more than male and also most of the respondents were in the age group of 20 to 39. Which means people in early adulthood have shown more interest than the other. When coming to the results only 33 percent was found to be very happy and no one scored too happy which is the highest level of happiness. The remaining were found to be below average in their happiness level. The results. were mailed to all the participants .



PALAKKAD VISION 2030

Palakkad Management Association prepared and released a Vision document proposing action plan for sustainable development of the district. Palakkad vision 2030 document was released by Hon. speaker of Kerala Shri. M.B.Rajesh , and handed over to District Collector Palakkad , Ms. Mrinmai Joshi IAS on 26 September 2021. Ahalia Group Of Educational Institutions is the knowledge partner of PMA for Vision 2030.

Dr. P. R. Sreemahadevan Pilai, Director, Ahalia Group Academic Institutions is the chairman of Education Vertical of Vision 2030.




Mathrubhumi
മാതൃഭൂമി

വികസന ആശയങ്ങളുമായി
'പാലക്കാട് വിഷൻ 2030' മാർഗരേഖ

PARTICIPATION IN FDPs, WORKSHOPS AND WEBINARS BY THE STAFF MEMBERS

- Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an online expert lecture on the theme "Accelerating urban action for a carbon -free world. " on 04-10-2021 organized by The Institution of Engineers (India) Palakkad Local Centre in connection with the World Habitat Day 2021.

- Dr. P. R. Sreemahadevan Pillai, Principal, ASET & Director, Academics, Ahalia Group delivered an online expert lecture on " **എഞ്ചിനീയറിംഗ് മലയാളത്തിൽ**' on 09-10-2021 organized by **മലയാള ഐക്യവേദി/വിദ്യാർഥി മലയാളവേദി പാലക്കാട് ജില്ല സമിതി** .

- Anand Haridas, Assistant professor, Department of CSE, delivered a speech at the Tedx event on 9th october 2021.The Tedx event was organised by Amrita Vishwa vidyapeetham, Coimbatore.

- Anand Haridas, Assistant professor, Department of CSE, delivered a session on Blockchain technology at the National seminar conducted by Nirmala college, Coimbatore on 23rd october 2021.

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