



Laxmi Memorial Education Trust®
Mangaluru

AJ SPARKLE 2023

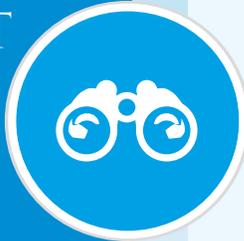


**A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY,
MANGALURU**

**(A Unit of Laxmi Memorial Education Trust®)
(Affiliated to VTU Belagavi, Karnataka, Approved by AICTE, New Delhi
and Recognized by Govt. of Karnataka)
ACCREDITED BY NBA (BE, CV, CSE, ECE, ISE & ME)**



LEARN OBSERVE IMAGINE AND INNOVATE

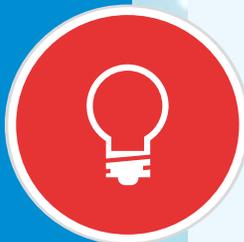


VISION

To produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society

MISSION

- ✓ To offer affordable high-quality graduate program in engineering with value education and make the students socially responsible.
- ✓ To support and enhance the institutional environment to attain research excellence in both faculty and students and to inspire them to push the boundaries of knowledge base.
- ✓ To identify the common areas of interest amongst the individuals for the effective industry-institute partnership in a sustainable way by systematically working together.
- ✓ To promote the entrepreneurial attitude and inculcate innovative ideas among the engineering professionals



OBJECTIVES

The main objective of the institution is to impart high-quality theoretical knowledge, ably and well supported by good practice in laboratories, workshop, drawing rooms etc. to turn the student into a highly competent professional and at the same time a good human being in the service of the state and the nation and to become a proud global citizen. In this direction, the institution considers the student as the most critical person on the campus. All staff members and all other persons connected with the institution must orchestrate all their activities to the student requirements. Therefore, we commit ourselves to produce such quality engineers who can take up these challenges of the day and the future. Engineering means to find economical solutions for technological problems. It has a vital role in the prevailing conditions. Most of them choose engineering as their file of study as it is a much sort-after profession. It gives both social as well as financial status. Engineers work starts from planning, designing, construction, production, testing, implementation and maintenance etc. Engineering offers tremendous scope for employment depending on the area of specialization.



SCOPE

Engineering means finding economical solutions for technological problems. It has a vital role in the prevailing conditions. Most of them choose engineering as their file of study as it is a much sort-after profession. It gives both social as well as financial status. Engineer's work starts from planning, designing, construction, production, testing, implementation, and maintenance, etc. Engineering offers tremendous scope for employment depending on the area of specialization.



LAXMI MEMORIAL EDUCATION TRUST (R)

Laxmi Memorial Educational Trust[®] (LMET) was propounded in 1992 by the well-known industrialist, social worker, and munificent philanthropist Dr.A.J. Shetty, in memory of his mother Late Laxmi Shetty. It is the mission of the Trust to provide education by trained faculties and develop the personality to meet the ever-growing expectations and challenges of society.” Further, as a Trust with a difference, it looks beyond its boundaries and strives hard to offer education at an affordable cost to different strata of society. Dr. A. J. Shetty, the President, and Managing Director of the Trust, started his successful journey to the domain of excellence from a humble background. He is a born leader, and authentic achiever and today he is a business genius.

Being a pioneer industrialist of South Kanara, Dr. A. J. Shetty started the renowned 3-Star Hotel MotiMahal, A.J Hospital & Research Centre (Tertiary Care Super Speciality Hospital), A.J. Institute Of Medical Science, A.J. Institute Of Dental Sciences, A.J. Institute Of Management, A. J. Institute Of Paramedical Sciences, Laxmi Memorial College Of Nursing, Laxmi Memorial Institute Of Nursing, Laxmi Memorial College Of Physiotherapy, MotiMahal College Of Hotel Management (Attached With 3 Star Training Hotel MotiMahal), Laxmi Memorial College Of Hotel Management, A. J. Institute Of Hospital Management, Laxmi Institute Of Paramedical Sciences, A J Institute of Engineering & Technology, A J grand Hotel-Multi Cuisine restaurant.



A J INSTITUTE OF ENGINEERING AND AND TECHNOLOGY



AJ Institute of Engineering & Technology is promoted by Laxmi Memorial Education Trust, Which was registered in the year 1991 in the memory of Late Laxmi Shetty, mother of Dr. A. J. Shetty, who is the President and Managing Director of the Trust.

AJIET is the only engineering college situated within Mangaluru city. It is located in Kottara Chowki lies at a convenient distance of about 2 kilometres from the central bus stand, 5 kilometres from Mangaluru central Railway Station and about 12 kilometres from Mangaluru Airport. AJIET is the right and convenient Institute for the students from in and around the city as well as nearby states who prefer engineering course. This advantageous location will enable the students and faculty to work and interact with many industries and software firms located around the institute in a complimentary manner.

BOARD OF DIRECTORS

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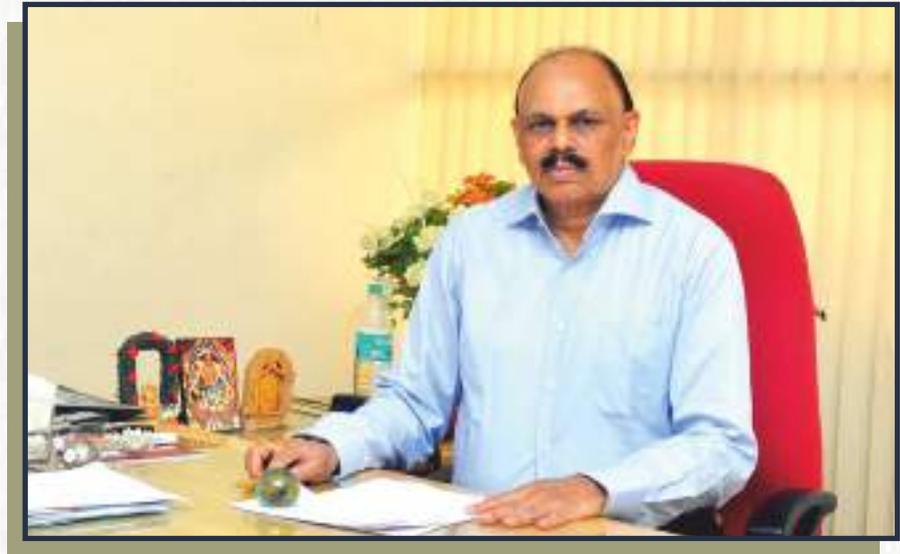
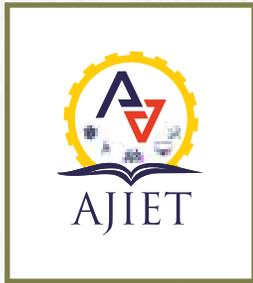


Dr. Amitha P. Marla
Director



Mrs. Vinutha R. Shetty
Director

From the President's Desk



I am delighted to extend my warmest greetings to all of you through the pages of our esteemed engineering college magazine "A J-Sparkle-2023" for the year 2022-23.

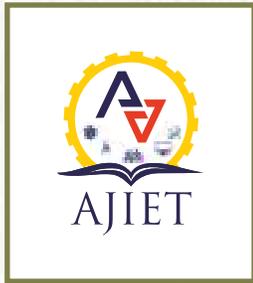
Our college has always been a crucible of innovation, excellence and knowledge dissemination. Over the years, we have nurtured countless minds, providing them with the tools and skills needed to not only succeed in the field of engineering but also to make a positive impact on the world. "A J-Sparkle" serves as a testament to our collective journey showcasing the talent, creativity and hard work of our students, Principal and faculty members.

Thank you for your dedication, hard work, and unwavering commitment to our college community.

Best Wishes for a bright and successful future.

Dr. A.J. Shetty
President

From the Vice President's Desk



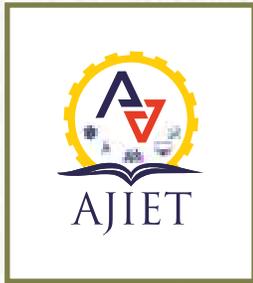
I would like to express my heartfelt appreciation to the talented students & dedicated faculty members who have contributed their time, energy and expertise to bring "A J-Sparkle-2023" to life. Your unwavering commitment to excellence is a source of pride for our college, and it is your dedication that shapes the intellectual landscape of our institution.

"A J-Sparkle-2023" is a reflection of our shared journey, our triumphs and our aspirations. I hope you find inspiration and motivation within its contents, and I encourage you to continue pushing the boundaries of what is possible.

Appreciate students, Principal and faculty member's dedication, enthusiasm and the remarkable contributions made towards college mission.

A. Prashanth Shetty
Vice President

From the Desk of Principal....



I am very happy with the release of the college magazine "A J Sparkle 2023." A. J. Institute of Engineering and Technology provides a platform for every student to develop their learning skills through magazines. I hope it brings out innovative and inspiring articles. It is an opportunity for both students and staff to showcase their talent by publishing unique articles and bringing out new ideas. It is a tool for maximizing the potential of our staff members and students. The management has provided modern infrastructure in a short span of time for personality the development of students. They also provided well-equipped laboratories, and a good library has also been established. Students are given ample opportunities in sports and cultural activities to bring out their inherent qualities.

I am glad that many students have come out successfully using this facility. Students were given special training on placement activities, soft skills, aptitude, and technical. I am very happy that most of the students are placed in good companies. The college has made tremendous progress in all areas, academic, non-academic, and capacity with building relating to staff and students. The college has another milestone achieved in getting the National Board of Accreditation (NBA). I congratulate the editorial board members, staff, and students for bringing out the college magazine, A.J. Sparkle 2023.

I hope the students have a very successful future and career.

Dr. Shantharama Rai C
B.E., M.Tech, Ph.D, MISTE, MISLE, MIEEE

Principal

From the Editorial

When it comes to campus life, a magazine is a mirror. It's a reflection of the college's literary, intellectual, and athletic activities. It depicts the significant collegiate activities that took place in a particular month or year. The magazine committee is glad to note that many of the students and the staff members have evinced interest in the magazine by contributing creatively and fascinating literary, technical, science, humanity articles in English, Kannada and Hindi. This issue is a treasure of poems, stories, beautiful pictures, and topics related to various branches of knowledge. The committee deems it an honour to congratulate all of them. The committee members express our deep sense of gratitude to the Principal, Dr Shantharama Rai C, for bringing out the magazine. We are also grateful to our Management for their continuous encouragement and support to bring out the magazine. With all the student's efforts and contributions, we genuinely hope that this magazine will be informative and resourceful. We want to express our heartfelt gratitude to our sponsors, Sri Graphics Printer, and everyone who contributed to making this edition possible.



A J institute of engineering & technology is started in the academic year 2016-2017, with five engineering branches of study, namely computer science & engineering, electronics & communication engineering, mechanical engineering, civil engineering, and information science engineering with an intake of 60 each. Institute is promoted by Laxmi Memorial Education Trust ® which was registered in the year 1991 in the memory of late Laxmi Shetty, mother of Dr. A J Shetty, who is the president and managing director of the trust.

All the engineering courses are approved by AICTE and recognized by the government of Karnataka and affiliated to Visvesvaraya technological university. All the engineering & Science departments have been recognized as VTU research centre from the year 2019-20. Also, VTU extension center & valuation center of the Mangaluru region is located in AJIET.

It is our greatest pleasure to inform you all that all 5 programs/departments of our institution got accredited by the National Board of accreditation during this academic year. Against our NBA Accreditation we are starting up with 3 new branches such as CSE (Artificial intelligence and Machine Learning), CSE (IOT & Cyber Security including Block chain Technology) Artificial Intelligence & Data Science and also we have increased our CSE intake from 60 to 120.

AJIET had a memorandum of understanding (MOU) with Consortium of Medical, Engineering and Dental Colleges of Karnataka (COMEDK), AIC Nitte Incubation Center Karkala, Russian

University, Millionminds, UI Path, Quantum learning center of excellence, Infosys Spring board, Virtual lab NITK, NASSCOM, M-Result, Juego - studios, Seventh Sense People Development solutions Pvt Ltd & Inquilab Inventions Foundation, Government tool room, and Training Centre Marian Projects Pvt. Ltd, Eleation, Cadd Center etc.

A J Institute Of Engineering And Technology, Dakshin Kannada had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in the campus during the IIC calendar year 2022-23 and bagged two stars.

A J Institute of Engineering & Technology mangalore had actively participated in the Innovation Category 2023 organised by National Institute Ranking Framework.

Staff status: We have Amicable and skilled Professors to teach our students. Presently the teaching faculty strength is 74 with 23 Ph.D. and the non-teaching Faculty strength is 80.

Examination result: 249 students have appeared for the exam out of which 243 students have passed with an overall percentage of 98.

CSE-100%, ISE-100%, Mech-100%, ECE-96%, Civil-87.1%

Placement details: The placement department provides a unique platform for the students to showcase their skill-set and the companies recruit the potential leaders of tomorrow. Out of 295 students 185 students have placed out of which 10LPA a highest package was offered. Total 280 placements were offered and 130+ companies visited our campus.

Student's Achievement

Sports Achievers of our college

- Shifali shetty III Year ISE Represented VTU in South Zone Inter University (Women) Volleyball Championship 2022-2023 Organised by Mahathma Gandhi University, kottayam on 27th to 31st December.2022
- Dhanush 1st Year Mechanical Secured 2nd place in VTU State Level Power lifting competition in 120kg Category, held at Vidyavardaka College of Engineering Mysore, on 9th & 10th February 2023.
- Vijayanand student of 3rd year Civil Engineering student has won 1st place in Solo bike race held at Srinivas Institute of Technology on 14th June 2022.

Technical & Cultural event

- 6th sem CSE students have secured First runner in IFERP - Project Competition, 2023 Idea Phase held at Chennai on 17/04/2023
- Our students have participated in various State level techno cultural fest organised by different colleges. More than 30 students have won prizes in events like technical paper presentation, Bridge design and AUTOCAD, Web designing, Student project exhibition, treasure hunt, Tech dub Charades, photo completion, Eastern dance presentation, group dance, Nrutya held at Jain institute Davanagere, SUCET Mukka, SDIT, MITE, St. Joseph college etc.

Student Publications

- More than 20 papers were published in various national and international journals and conferences by our students under the guidance of faculty members.

Fund Received

- 12 student project programmes approved for sponsorship & received a grant from KSCST worth Rs.67,500/-.
- 10 students received a grant from VTU Innovative project grant worth Rs. 50000/-.
- Mr. Adithya Subrahmanya Sharma P, Ms.Saniha, Mr. Ashlesh S, Mr. Midhun Mohan, 4th year students of ECE department have received a grant of Rs.1,00,000/- for their project titled "Low-cost smart Spirometer" from United Nation Development Project (Project-Code Unnati)

Faculty achievements

- Dr. Shantharama rai C, Principal of AJIET was nominated as a nominee to the governing council of Shri Madwa Vadiraja Institute of Technology, Mangalore, and PES Institute of Engineering & Management, Shivamogga
- Dr. Gnane Swarnadh Satapathi received certificate of Grant innovation Patent from Govt. of Australia.
- Dr. Kiran Kumar VG, received a Grant worth Rs.4, 44,000/- for their project titled "Design and Implementation of security solution for healthcare systems" from VTU Research Grants Scheme.
- Mr. Nitesh received a Grant worth ₹50,000 "Evaluation of metal contamination risk of ground and surface water near municipal solid waste dumping site area Mangalore: overview of pollution indices with risk assessment and application of low-cost water filter" From KSCST FPP. Also he received the best paper award for "Evaluation of Physicochemical Characteristics and Metal Contamination Risk in Nethravathi and Gurupura River Basin: Overview of Pollution Indices with Risk Assessment" International Conference on Engineering Innovation (ICEI 2022).

- Dr. Antony P J was awarded as Gadinada Dhvani Rashtrakavi Manjeshwara Govinda Pai national award.
- More than 50 research papers, book chapters were published in various national and international journals and conferences by Dr. Shantharama Rai C, Dr. Suresha D, Dr. Naganna Chetty, Dr. Amaranth Shetty, Dr. Sangeetha D. M, Dr. Shantha Kumari K, Mrs, Navya S Rai, Mrs. Wilma d'souza, Dr. Rithon Kumar N. B, Dr. Vignesha Nayak, Dr. Sreejith B K, Mr. Prasad B G, Mr. Sudheer Kini, Dr. Sunil Kumar, Dr. Antony P J, Mr. Chanchal Antony, Dr. Laxmi Gulgappagol.
- More than 7 Indian and foreign patents were published by our faculty members. Out of which 1 Indian patent and 2 Australian Patents were granted.
- Mr. Manjukiran B, Elected as Mentor of Change [MoC] for Atal Innovation Mission, Gol.
- More than 17 FDPs and training were attended by our faculty members.

For quality education & smooth running of the college different internal committee was formed such as College academic committee / IQAC, students welfare committee, anti-ragging squad, hostel committee (Boys and Girls) maintenance/transportation/security Committee, Grievance & Readdressal /disciplinary committee, women's welfare/ sexual harassment eradication committee, placement training/carrier guidance/IIPC committee, program organizing committee, literary & cultural committee, website, ERP & networking committee, canteen & housekeeping committee, examination/time table committee, library committee, research & development committee, NSS/ sports /red cross committee, etc. are headed by a senior professor. Institute has a separate advising/counseling system, where each class is allotted one senior professor as an advisor to take care of the daily activities of the respective class.

College focuses on grooming the students towards placement, for which weekly classes are allotted for English communication training and confidence building along with students activates regarding technical issues of engineering like quiz, pick and speak, paper presentation, etc.

The college has established the Women's Welfare Committee (WWC) to ensure that every female student and staff experiences a safe environment. The committee is established to address academic/non-academic issues related to women along with the below tasks.

Invite eminent personalities to give talks on various issues related to women.

Will give awareness on hygiene and will make sure of healthy ambiance in and around the college.

The website and Networking Committee take the responsibility of Developing and Monitoring the ERP system and website.

Students are provided with different platforms to boost their confidence. Competitions such as fine arts, literary, cultural, and technical events are organized by the Cultural and literary committees to provide opportunities for the students to develop their hidden talents. Committee also encourages students to participate in various intercollege competitions organized by other institutions.

Following are the List of grants received by students for their project work:

Funding Agency	Guide name	Student Name	Branch	Project Title	Amount
KSCST	Mr. Nitesh	Ms.Deeksha Ms.Sridevi R. Mr. Sujith Shekar Poojari Ms.Prajna	CIVIL	Evaluation Of Physicochemical Characteristics And Metal Contamination Risk In Nethravathi And Gurupura River Basin: Overview Of Pollution Indices With Risk Assessment And Application Of Low-Cost Water Filte	7000.00
KSCST	Dr. Suman K	Mr. Nikesh Kumar Siwan Mr. A Prem Kumar Mr. Dileep M Ms.SunainaGharti	CIVIL	Low Cost Sensor Based Kit To Detect The Ghg Gas Emissions From Sewage And Industrial Effluents In Mangalore And Public Awareness Survey Of The Same	4000.00
KSCST	Dr. Sangeetha D M	Ms. Costa Janavi Ms. A. Manjima Ms. AnanyaKudyadi Ms. Chaitanya Chandrashekar Hosamane	CIVIL	Strength Evaluation Of Steel Plate Girder Using Staad Pro Software	4000.00
KSCST	Prof.Siju V Soman	Mr. Bhavna Sharma Ms. Shraddha Ms. Arpitha M J	CSE	Esperanza - IOT Buddy At Home	6000.00
KSCST	Prof. Prakash K Shetty Prof.Manjukiran B	Mr. Dhanush Mr. Dhanush Amin Ms. K Pallavi Mr. Nithesh Kumar	ISE	Object Detection Based Garbage Collection Robot	6000.00
KSCST	Prof. John Prakash Veigas	Ms. Yashaswini Ms. Meghashree Ms. Pavithra Ms. Zubaida Shaima	ISE	Mage Regeneration For Old Damaged Reel Picture	4500.00
KSCST	Dr. Suresha D	Ms. Swapna Ms. Pratheeksha H Ms. Saamiya Ms. Tanya Mendon	ISE	Chronic Disease Prediction After Covid-19 Using Machine Learning	3000.00
KSCST	Prof. ArunaKumari G. K.	Ms. MEGHA JOSE Mr. ABHIJITH P.P Ms. KRITHI T Ms. NIKITA	ISE	Breast Cancer Histopathology Image Classification Using Machine Learning	5000.00
KSCST	Dr. Sunil Kumar S	Ms.Yojith.K Mr. Rakshith Acharya Mr. Sharavanraj Kambli Mr. Vasanth Kumar T S	Mech	A Novel Plastic Waste Management System To Control Air Pollution	7000.00

KSCST	Dr. Sreejith B.K	Mr. Sarang C M Mr. Abhishek Sasidharan Mr. Pranav A.P Mr. Pranav T.V	Mech	Development Of 360° Rotating Sound wave Fire Extinguisher	7500.00
KSCST	Prof.Prashanth D A	Mr. Akhilraj E S Mr. Akhil K S Mr. Abraham Mathew Mr. Anirudh K	Mech	Injection Moulding Machine And Production Of Fuel From Waste Plastic	10000.00
VTU – Innovative Project Grant 2022	Dr. Suman K	Mr. Nikesh Kumar Siwan Mr. A Prem Kumar Mr. Dileep M Ms. Sunaina Gharti	Civil	Low Cost Sensor Based Kit To Detect The Ghg Gas Emissions From Sewage And Industrial Effluents In Mangalore And Public Awareness Survey Of The Same	5000.00
VTU – Innovative Project Grant 2022	Dr. Amarnath Shetty	Mr. Nickson George Mr. Vyshnav Sunil Mr. K. Vysakh Mr. Nirenjan S	Civil	Water Quality Analysis Around AJIET Campus	5000.00
VTU – Innovative Project Grant 2022	Prof. Archana S	Ms. Neha C Naik Ms. Nireeksha G Rai Ms. Pallavi Shetty Ms. Pujari Riya Prem	CSE	Android App For Dairy Farmers	5000.00
VTU – Innovative Project Grant 2022	Prof. Siju V Soman	Mr. RaiNinand Bhaskar Mr. Shetty Chirag Divakar Mr. Shiahab Abdul Rahiman	CSE	sign Language Recognition	5000.00
VTU – Innovative Project Grant 2022	Dr. Vignesh Nayak	Mr. Vignesh R Pai Ms. Deepa A S Mr. Harshith Shetty Mr. Manish K Anchan	MECH	Electricity generation from Hydrodynamic behavior of floating substances in Directional Seas	5000.00
VTU – Innovative Project Grant 2022	Prof. Prakyath	Mr. Shravan K Mr. Pavan Kumar Mr. Sharan C Mr. Shravan P C	MECH	Experimental and Computational Analysis of Co-Centric Tube heat Exchanger with Pin-Fin	5000.00
VTU – Innovative Project Grant 2022	Prof. Ganesh U. G Prof.Pratheeksha N Rai	Mr. Sheatiel Elzer Mr. Sayan Dasmahapatra Ms. Nikitha Rai Ms. Nisha	ECE	Smart Wheel Chair	5000.00
VTU – Innovative Project Grant 2022	Dr. Gnane Swarnadh Satapathi Prof.Sahana K Adyanthaya	Mr. Adik Ashok Shetty Ms.Dhanya V Shetty Ms.Thrusha K Mr. Saroan Krishna Vel S	ECE	Low Cost Prosthetic Arm	5000.00

VTU – Innovative Project Grant 2022	Dr. Nagesh H. R.	Ms.Pratheeksha H Ms.Saamiya Ms.Swapna Ms. Tanya Mendon	ISE	E-Voting System Using Block chain Technology	5000.00
VTU – Innovative Project Grant 2022	Dr. Surehsa D	Ms.Pavithra Ms.Meghashree Ms.Yashaswini Ms.ZubaidhaS haima	ISE	Detection and Classification of Brain Tumor with MRI Scan Using Deep Learning	5000.00

The Institution has conducted different programs during the year 2022- 23

- ❑ Provide them with the knowledge of their readressal of grievances.
- ❑ Provide counselling services for the female gender to share their problems.
- ❑ Disciplinary committee of AJIET organised a Drug Awareness campaign on Drug Free Mangalore on 26/06/2023 in Seminar Hall-3.Resource person of the talk was Mr. Ganesh Kudwa & Mr. Gururaj Inspector Kavoor Police Station.
- ❑ ECO Club in association with the Department of Civil Engineering had organised an event “cycle Jatha On account of World Environment Day” at AJIET Campus Mangalore on 05/06/2023.
- ❑ Faculty Development programme on Changing Role of Teachers and Evolving Profile of students and Emerging trends in education on 10/06/2023. Resource person of the FDP was Dr. Abdul Khader A A, Former Principal, Karnataka (Government) Evening Polytechnic Mangalore.
- ❑ As per the Directions of VTU NSS unit of AJIET celebrated the World environment day by planting tree saplings in the college surroundings on 05th June 2023.
- ❑ ISTE student branch organised a workshop on Basics of Arduino programming on 17/02/2023.
- ❑ The session on How to plan for start-up Ethical & Legal Steps to enable students and faculty was organised on 27/05/2023. Resource person of the program was Mr. Raghavendra S, Founder & CEO , Aakruthi 3D Private Ltd, NITK Surathkal.
- ❑ The ED cell organised a session on Business Model Canvas(BMC) on 23/05/2023. Resource person of the program was Dr. Anantha Padmanabha Achar, CEO-AIC Nitte.
- ❑ The students visited Atal Incubation Center Nitte on 23/05/2023.
- ❑ The department organised a technical talk on “Opportunities in VLSI” by the department of Electronics & Communication engineering in association with Electrovertz student association on 08/05/2023.Resource person of the talk was Mr. Vinod John, Mirafra Technologies Manipal.
- ❑ The technical committee of AJIET organised an “AJIET SPECTACLE 23”to exhibit and evaluate the project works of all the departments on 08/05/2023.Resource person of the exhibition was Mr. Arun Prabha K S, General Manager Mangalore Smart City and Mr. Vinod John , Mirafa Technologies Manipal.

- ❑ The Department of Civil Engineering in Association with ECO Club had organised an event "Talk on Sustainable Living for a better future". The resource person of the program was Mr. Ranjan BELLarpady, Coordinator ,Education, Tooth And Sustainability programmes, Ramakrishna Mission, Mangalore.
- ❑ Workshop on Importance of Innovation and Entrepreneurship in a higher education institution was organised on 10-04-2023
- ❑ Annual Fest AAKAR was organised by AJIET on 24th and 25th of March 2023.
- ❑ An event Cooking without fire was organised by IEEE student branch of AJIET on 13/03/2023
- ❑ On behalf of national Science day, Science model exhibition was organised for 1st year B. E students on 28/02/2023.
- ❑ AJIET organised the 3rd Graduation Day on 11th March 2023 for the 201-19 academic batch students.
- ❑ AJIET Science club organised a guest lecture on " Contribution of scientists towards the development of the nation" on 28/02/2023.Resource person of the program was Dr. Ishwara Bhat.
- ❑ Workshop on Basics of Arduino Programming for high school students was conducted by IEEE student branch of AJIET on 17/02/2023.
- ❑ The Department of Mechanical Engineering organized a workshop on Air Conditioning and Refrigeration on 17/02/2023. The resource person of the program was Mr. Sachin Karkera, AC Maintenance Engineer, S. K Services Carstreet Mangalore.
- ❑ Workshop on Basics of Arduino Programming was organised on 17/02/2023 for high school students of SDPT, Kateel.
- ❑ Workshop on Basics of Arduino Programming for 1st and 2nd year students was organised by IEEE student branch of AJIET on 16/02/2023.
- ❑ The Department of ISE in association with IEEE & ISTE organized a visit to Government High School Koila on 14/02/2023.
- ❑ The Republic day flag hoisting ceremony was conducted on 26/01/2023 in the college campus.
- ❑ 18 students of the 5th semester from the mechanical engineering department visited JV Springs Baikampady, Mangaluru & Deccan Plast Industries, Konaje on 23/01/2023.
- ❑ The Department of ECE conducted the food fest in association with EVSA on 21/01/2023.
- ❑ AJIET organized Fresher's day program for First-year students on 07/01/2023.
- ❑ The department of Electronics & Communication Engineering in association with IEI organized a Technical Talk on Advances in the communication network on 30/12/2023.The resource person was Mr. Pratheek M Holla, Technical Solutions Engineer, Arista Networks, Australia.
- ❑ Department of Mechanical Engineering organized an industrial visit to Lamina Foundries Ltd, Nitte for 3rd-semester students on 23/12/2022.

- ❑ The Department of Mechanical Engineering organized an industrial visit to the Government tool & training center for 3rd-semester students on 23/12/2022.
- ❑ 2nd edition of the Technovanza Walkathon at mangaluru was conducted on 17/12/2022.
- ❑ The Department of Mechanical Engineering organized an industrial visit to Lamina Foundries Ltd, Nitte for 3rd-semester students on 16/12/2022.
- ❑ The Department of Mechanical Engineering organized an industrial visit to the Government tool & training center for 3rd-semester students on 16/12/2022.
- ❑ Association of Civil Engineering students Team Resilience for the A. Y 2022-23 was inaugurated and delivered a technical talk on “Process of innovation development technology, readiness level, Commercialisation of lab technologies and technology transfer” on 16/12/2022. The resource person was Mr. Prajwal V Kumar, Founder, and CEO of Mangalore Robotronics Pvt. Ltd.
- ❑ AJIET conducted various competitions such as essay writing, pick & Speech, and quiz on the topic Intention and Implementation of National Education Policy 2020 on the 12th, 13th & 14 of December 2022.
- ❑ The Department of Electronics & Communication Engineering organized a one-day workshop on New Education policy 2020 on 14/12/2022 for the students and parents of Second-year ECE.
- ❑ The Department of Mechanical Engineering organized a one-day workshop on New Education policy 2020 on 13/12/2022 for the students and parents of Second-year Mechanical Engineering.
- ❑ The cultural committee conducted a solo dance competition for the students of AJIET on 14/12/2022.
- ❑ The Department of Information Science & Engineering organized a one-day workshop on New Education policy 2020 on 13/12/2022 for the students and parents of Second-year ISE.
- ❑ The Department of Computer Science & Engineering organized a one-day workshop on New Education policy 2020 on 12/12/2022 for the students and parents of Second-year CSE.
- ❑ Department of Mechanical engineering had organised a certification course on CATIA on 19/12/2022. The Resource person of the program was Mr. Swastik Nanda CADD engineer CADD Centre, Magaluru.

Results

Consolidated statement of results of VIII sem BE Aug/Sept 2021 examinations				
BRANCH	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED	NO. OF STUDENTS FAILED	PERCENTAGE (%)
COMPUTER SCIENCE & ENGINEERING	67	67	0	100%
CIVIL ENGINEERING	31	27	4	87.1%
ELECTRONICS & COMMUNICATION ENGINEERING	46	44	2	96%
INFORMATION SCIENCE & ENGINEERING	57	57	0	100%
MECHANICAL ENGINEERING	48	48	0	100%
OVERALL PERCENTAGE	249	180	6	98%

Library: A well-equipped computerized library, which has more than 12600 volumes of books and subscribes for national and international journals. It also a subscriber of various magazines and newspapers, which cater to the needs of the students and staff members and keeps them update and well informed. The library is also equipped with digital library facilities with a subscription to large number of e-journals and e-books through VTU Consortium and offers online services.

All Teaching Staff Members



All Non Teaching Staff Members



All Staff Members



Office Staff Members



Training and Placement Department

Training and Placement

The Training & Placement Department is the one which initiates and conducts various placement related activities like training, placement drives etc. It has a central placement team with staff representatives from every technical department overseeing its activities. The student coordinators nominated act as an interface between the student group and staff placement coordinators.

Vision

To facilitate students achieve their career objective through sustained excellence

Mission

- ❑ To act as an interface between the institute and the industry thus paving way for right career opportunities being made available to our students.
- ❑ To increase employability amongst our students through effective training being provided to them.

2.0 OBJECTIVES OF T & P DEPARTMENT

- To create awareness amongst students regarding available career options thereby help them in identifying their career objectives.
- To maintain regular interaction with industry through lectures, internships, conferences etc.
- To maintain good relations with the corporate houses
- To organize training to students on various aspects contributing to employment
- To plan & organize successful Placement drives in campus.

OUTCOMES:

- ❖ Students aware of career options thus leading to meaningful placements
- ❖ Keep pace with industrial advancements
- ❖ Increased opportunities thereby leading to more placements
- ❖ Increased employability with improved skill sets
- ❖ Cordial relationship with industry and other engineering campuses.

3.0 ROLES & RESPONSIBILITIES :

Head of Placement : Looks into engaging the best suited training service provider, approaching corporate houses for recruitment and maintaining a cordial relationship with the members of the pool placement team members. Also looks at corporate interfacing through continued interaction with corporates. Overseeing conduction of placement drives

Staff coordinators : Interface between students and Central placement committee towards disseminating of information, collection of student data and effective conduction of placement drives. Also smooth conduction of various training programs organized at the campus. Data maintaining regarding placement drives, results and other statistics.

Placement Assistant : Help in smooth conduction of the scheduled recruitment drives. Interact with department coordinators regarding documentation, data collection etc.

Student coordinators : The student members assist staff coordinators in passing relevant information to fellow students about the placement drives and act as volunteers in smooth conduction of a placement drive.

Placement Committee



Our Infrastructure



Seminar Hall



Interview Cabins



GD Rooms



Online Test Labs

Placement Drives



Infosys Drive



IBM Drive





Infosys Drive



IBM Drive



Juego Studio Drive



[24]7 Drive



Navigo Drive



I Wave Systems Drive

Here! is the list of students who secured placement in reputed companies/ organisations.

STUDENT NAME	BRANCH	COMPANY NAME
AISHWARYA P	CV	Skolar
DARREN FERNANDES	CV	Skolar
HARSHITH J POOJARI	CSE	Sasken
ANEESH BHAT	CSE	Sasken / RedHat/ TCS
SANDEEP BENNY	CSE	Mu Sigma
ABHISHEK MANKAME	CSE	Kyndryl
PAYAL JOGI	CSE	Kyndryl
AMAN	CSE	Kyndryl
GAYATHRI MN	CSE	Kyndryl
KARTHIK R	CSE	Novigo
MOHAMMED SHAMAL	CSE	Novigo
EXSON NAVEIL PERIRA	CSE	MU SIGMA
KHUSHI PAL	CSE	MU SIGMA
DIVYATEJ	CSE	INTELLIPAAT /Jaro
SHAMAM ABDULLA	CSE	ROBOSOFT
PRATHEEK B C KULAL	CSE	INTELLIPAAT / INVENGER
RAHUL HP	CSE	INTELLIPAAT
SHRIJA B SHETTY	CSE	INTELLIPAAT/QUICK MATRIXS.
DIYA	CSE	INTELLIPAAT
ARVA FATHIMA	CSE	INTELLIPAAT
NAZILA HAMAD	CSE	INTELLIPAAT/SPURTREE
SINCHANA C SHETTY	CSE	INTELLIPAAT/SPURTREE /SPECBEE
KAUSHAL R	CSE	INTELLIPAAT
SACHIN A	CSE	INTELLIPAAT
SAHAD ABDULLA C P	CSE	SPURTREE
AKANKSHA	CSE	SKOLAR/ MAVENTIC
AKANKSHA U SAADHANA	CSE	SKOLAR/QUICK MATRIX/ACCORD
LAKSHMIKANTH	CSE	SKOLAR/ACCOLADE
MITHUN KUMAR UMESH	CSE	SKOLAR/ ETHNUS
NISHANTH E	CSE	SKOLAR
NISHANTH A SHETTY	CSE	SKOLARP
RATHEEKSHA D	CSE	SKOLAR/TURINING MIND
SRITHESH N K	CSE	SKOLAR/ETHNUS/ Q SPIDER
SHRADHA SANJEEVAN	CSE	SKOLAR/QUICK MATRIX
SIBIN T S	CSE	SKOLAR
SURAJ J	CSE	SKOLAR/WEB WINGS

STUDENT NAME	BRANCH	COMPANY NAME
THRUPTHI	CSE	SKOLAR/Q SPIDER
YASHASWI G PUTHRAN	CSE	SKOLAR/SPECBEE
YASHIKA A KRISHNANI	CSE	SKOLAR/ WEB WINGS
YOMITH T MENDON	CSE	SKOLAR/TCS Ninja
YUKTIKA AKRISHNANI	CSE	TEKION
DHANYA D SHETTY	CSE	DIYA SYSTEMS
ALBIN JOSEPH	CSE	DIYA SYSTEMS
JUGAL ALAN	CSE	DIYSA SYSTEMS
SIRIUSTHOMASMATHEW	CSE	DIYA SYSTEM
SKITTU KUMARI	CSE	ETHNUS/ Q SPIDER/WEB WINGS
JOEL JOSEPH	CSE	ETHNUS
VAISHNAV E	CSE	ETHNUS
SAHANA M NAIK	CSE	ETHNUS/ Q SPIDER
JOEL THOMAS	CSE	ETHNUS
SAMIKSHA S NAGWEKAR	CSE	ETHNUS
ALBIN JOHN	CSE	Q SPIDER
AKSHAY J RAI	ECE	SASKEN/ MIRAFRA
MOKSHA	ECE	SASKEN/ PARK CONTROL
ADITYA SUBRAMANYA BHAT	ECE	KYNDRYL / ACTALENT
LEKHA PALLI	ECE	KYNDRYL
M POOJA	ECE	KYNDRYL
SHREYA S	ECE	KYNDRYL/ TESSOLVE
SONAL	ECE	KYNDRYL
AMRITHA SICHANA	ECE	KYNDRYL
SANIHA	ECE	KYNDRYL
RANNIYA MARIA	ECE	KYNDRYL
SANA KATIJA	ECE	KYNDRYLT
ASMIYA ZULEKA	ECE	KYNDRYL
SHRAVYASHREE K A SHETTY	ECE	NOVIGO
YASHAS SHETTY	ECE	NOVIGO
SHASHANK MOOLYA	ECE	NOVIGO
APOORVA G BHAT	ECE	INTELLIPAAT
SWAROOP	ECE	INTELLIPAAT/ TESSOLVE
TRUPTHI.	MECE	INTELLIPAAT AADON TITUS
K APPAN	ECE	SLK SOFTWARE /ACTALENT /M RESULT
AKSHITH N SHETTY	ECE	ACTALENT KANGUNDHI
RAJESH NITHIN	ECE	ACTALENT
P. DANASHEKAR	ECE	JARO/ MIRAFRA

STUDENT NAME	BRANCH	COMPANY NAME
AYSHA SAHANIYA	ECE	JARO
AISHWARYA	ECE	SKOLAR
APOORVA MITHRA	ECE	SKOLAR/ MIRAFRA
ASHLESH S	ECE	SKOLAR/FACE
GOVIDA REDDY SRIKALA	ECE	SKOLAR/ MIRAFRA
HARSHITHA	ECE	SKOLAR
KRITHI B SHETTY	ECE	SKOLAR/ KAMBALA SOLUTIONS
PRADEEP KUMAR	ECE	SKOLAR
PRAJVAL	ECE	SKOLAR
PRITHVI RAJ SHETTY	ECE	SKOLAR
RAKSHITH S ANCHAN	ECE	SKOLAR/ TESSOLVE
SEJAL	ECE	SKOLAR
SHRAJAN N SHETTY	ECE	SKOLAR
SRUTHI PRASDEEP	ECE	SKOLAR
SHREYA S	ECE	SKOLAR/ TESSOLVE
SUDEEP A S	ECE	SKOLAR/Q SPIDER/FACE
THARUN B S	ECE	SKOLAR
ANUSHA	ECE	MIRAFRA
ANIRUDDH BHAT	ECE	MIRAFRA
AMAN	ECE	MIRAFRA
RAMYA	ECE	Q SPIDER/FACE
SHIPAL	ECE	Q SPIDER
RAKSHITH NAYAK	ECE	Q SPIDERS
H ASHWATH SHETTIGAR	ECE	Siechem Technologies
PRASHANTH	ECE	Siechem Technologies
JATIN	ECE	Siechem Technologies
ASHWIN M R	ECE	Siechem Technologies
SHREYAS	ISE	SASKEN Technologies/ ACCORD
SHREYA	ISE	Kyndryl
SHRADDHA H S	ISE	Kyndryl
POORVI M RAO	ISE	Kyndryl
HARSHITHA H S	ISE	Kyndryl/ INTELLIPAA
T BHAGYASHREE	ISE	Kyndryl/ TCS Digital
ASHIKA RUTH SALDANA	ISE	Kyndryl/ Mangalore Info Tech
ABHIJNA P NAIK	ISE	Kyndryl
RAM KRISHNA MARNDI	ISE	MuSigma/ INTELLIPAA
T KISHAN KUMAR	ISE	MuSigma
PRAKHYATH	ISE	7EDGE

STUDENT NAME	BRANCH	COMPANY NAME
SANJAY UMESH BANGERA	ISE	Thought Focus/ INTELLIPAA
T PRAJWAL B BHAT	ISE	Code Craft/TCS Ninja
SUKANYA SHET	ISE	INTELLIPAAT/WEB WINGS
AHMED	ISE	INTELLIPAAT/ JARO/TCS Ninja
SHERENE RAHEL MABEN	ISE	TEKION/JARO
ARPITHA SALIAN	ISE	TEKION
DRETHI SHETTY	ISE	TEKION
PRAJNA S PUTHRAN	ISE	TEKION/ SPURTREE/JARO
DEVIKA	ISE	JARO
ERICA V FERNANDES	ISE	JARO/SKOLAR
MOHAMMED ZAAHID UMER	ISE	JARO
ANISH SUVARNA	ISE	SPURTREE/SPECBEES
ANJANA ARUN	ISE	SPURTREE
ANUSH KUMAR	ISE	SKOLAR/ Accolade/Q SPIDER
ASHWIJA SHETTY	ISE	SKOLAR
PRATHVIN	ISE	JARO / SKOLAR/ TCS Digital
RAHUL M K	ISE	SKOLAR
SHAMITHA	ISE	SKOLAR
SHARAN S SHETTY	ISE	SKOLAR/KAMBALA SOLUTIONS
SWATHI	ISE	SKOLAR/ TEKION
NIHAL KUNDER	ISE	Mangalore InfoTech
NANDU R	ISE	INTELLIPA
ATKSHAMA D	ISE	ACCOLADE/ ETHNUS/EMRTXCE
JOSHWA FERNANDES	ISE	DIYA SYSTEM/ETHNUS
DEEKSHA	ISE	ETHNUS
DEEKSHA SHETTY	ISE	ETHNUS
MANVITH SHETTY	ISE	ETHNUS
SUDARSHAN UDUPA	ISE	Q SPIDER
BASAVARAJ	ISE	Q SPIDER/ACCORD
SINCHANA B R	ISE	Q SPIDER/WEB WINGS
RONAK DAVID	MECH	INTELLI
PAATVIKAS R SHETTY	MECH	ACTALENT
HARSH SRIVASTAVA	MECH	JARO/ ANITA FASTENERS PVT. LTD./ DIFACTODH
ANUSH M S	MECH	SKOLAR
J ABHISHEK	MECH	SKOLAR
MUHAMMED SAHIL ARSHAD	MECH	SKOLAR
PRAJWAL SURESH	MECH	SKOLAR
AKILA	MECH	TCS Ninja/ DIFACTO

STUDENT NAME	BRANCH	COMPANY NAME
SHAMATH B ACHAR	MECH	DIFACTO
RISHI JOSHI	MECH	DIFACTO
SHARVARI	MECH	AutoLiv
GOUTHAM SHETTY	MECH	FACE
AKASH MOHANAN	MECH	SIECHEM TECHNOLOGIES
ABHILASH A S	MECH	SIECHEM TECHNOLOGIES



Thanking our Recruitment Partners



Civil Engineering is one of the most sought after options among students in India. Civil Engineering is one of the oldest Engineering professions. Role of Civil Engineer is vital in numerous fields like planning, designing, and overseeing construction of buildings, structures, and facilities, such as roads, railroads, airports, bridges, harbours, dams, irrigation, pipelines, power plants, water and sewage systems, and waste disposal units etc. Department of Civil Engineering was established in the year 2016 with the inception of AJIET, Mangaluru. The Department is offering under graduate courses (B.E) in Civil Engineering with an intake of 60 and Affiliated to VTU Belagavi. Department has got an experienced and highly dedicated faculty members. Nowadays a tremendous increase in demand for resources and acute shortage of the same is

like a double edged sword. Codes and construction practices are emphasizing durability to cope with the situation. Hence UG curriculum strikes a balance between Engineering fundamentals and applications and thereby, preparing graduates for both research and professional practice in the Civil Engineering disciplines. A career after Civil Engineering is highly rewarding. Government job opportunities are many for the Civil Engineers. Specialization (Masters) in any fields of Civil Engineering has got a wide scope in National and International level. Scope of Civil Engineers recruitment at reputed companies is very high. Also as an entrepreneur young Civil Engineers can design and build the safe, stable and economical structures. This ultimately helps in the national and economic development of the country.

Vision

To produce competent and professional civil engineers with academic excellence and ethics to meet societal challenges at global level.

Mission

M1: To impart students with strong theoretical and practical skills through the state-of-the-art concepts and fundamentals of various civil engineering subjects.

M2: To prepare the students to be competent and skilled enough to take up the challenges in research to meet the ever-changing needs of society and to continue learning.

M3: To promote active learning, critical thinking, industry - institute collaborative activities and contribute to social development with ethical conduct.

M4: To nurture innovative ideas and develop entrepreneurial attitude among the engineering professionals.

Activities of Department

Association of Civil Engineering students – Team Resilience for the academic year 2022- 2023 was inaugurated on 16.12.2022, Friday day by Mr. Prajwal V Kumar, Founder and CEO Mangalore Robautronics Pvt Ltd Surathkal Pvt. Ltd.



An Industrial visit to "**DAKSHINA KANNADA NIRMITHI KENDRA**" was organized for the Civil Engineering students of third semester on 24-12-2022.



Department of civil Engineering in association with Association of Consulting Civil Engineers (INDIA) and The Ramco Cement Limited and ISTE had conducted **TECHNO WEEK-2022 TECHNICAL TALK ON CORROSION OF REINFORCED CONCRETE**. Er. Suraj, Er. Ajith, Er. Subramanya from ACCE and Ramco cement Limited was the resource Person.



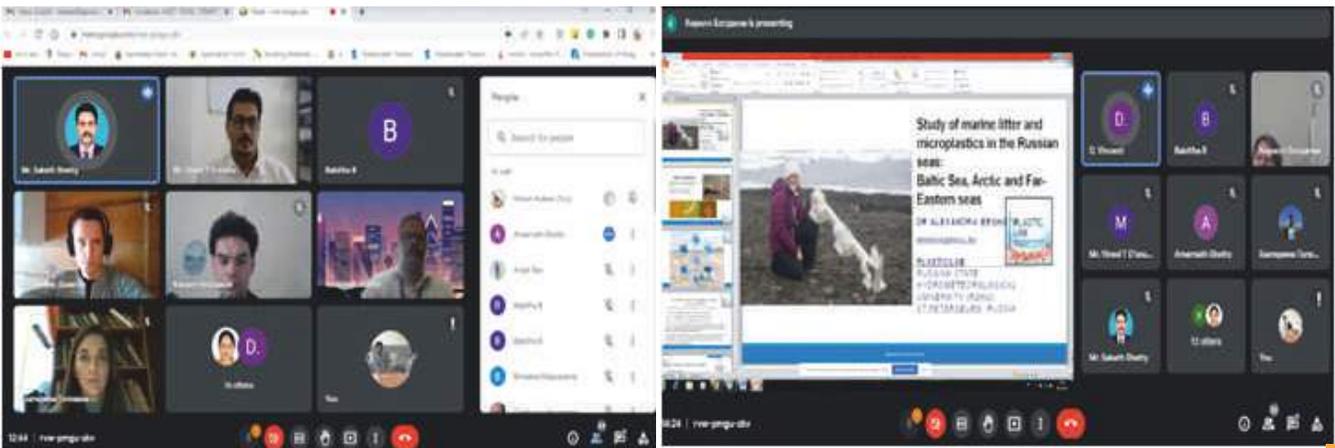
Department of civil Engineering in association with Association of Consulting Civil Engineers (INDIA) and The Ramco Cement Limited and ISTE had conducted **TECHNO WEEK-2022 NEW AGE BUILDING BLOCKS.**



The department of Civil Engineering in association with Department association TEAM RESILIANCE had conducted Workshop on” RIVET ARCHITECTURE” for Second year Civil Engineering Students on 11th, 12th, 13th of August 2022. **Ms. Jahnvi C.S**, Centre Head, Digi CADD Institute of Drafting and Designig, Mangalore was the Resource person and trainer for the Workshop.



Department of civil Engineering in association with RUSSIAN State Hydrometeorological University has organised an online event on 30-9-2022.



Department of Civil Engineering AJIET had organized farewell party for 2018-2022 batch students on 15-7-2022.



Achievements of Students

Achievements of Faculty

- Mr. Nitesh Awarded best paper award for “Evaluation of Physicochemical Characteristics and Metal Contamination Risk in Nethravathi and Gurupura River Basin: Overview of Pollution Indices with Risk Assessment” International Conference on Engineering Innovation (ICEI 2022) on 3rd June 2022 at Jain Institute of Technology Davanagere.
- Dr. Amarnath Shetty Presented Paper Entitled a Probabilistic Approach To Estimating Hardened Properties of Self-Compacting Concrete In International Conference On Recent Trends In Science And Technology ICRTST-2022(Scopus).

Faculty and Staff



Fourth Year Students (2022-23)



Students Association Team RESILIENCE



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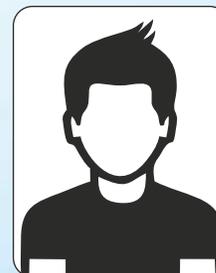
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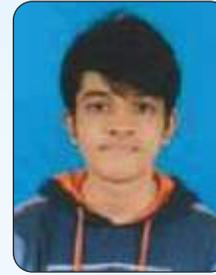
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**MANJUNATHA**

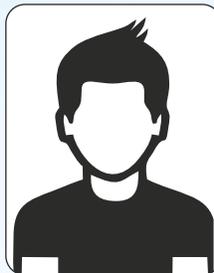
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Computer Science and Engineering (CSE) department was started in the year 2016 to offer 4 years under graduation (BE) in computer science. The CSE course has a total annual intake of 60 students and had the maximum demand for the student admission since its inception in 2016. The department of CSE was started following the exact norms & regulations of AICTE & VTU and has qualified faculty members having excellent research credits in various research domains of computer science. The Department of Computer Science & Engineering has been accredited by National Board of Accreditation (NBA) for the period of three years(2022-2025).The intake of the department is proposed to increase from 60 to 120 students from the Academic Year 2023-24 also with an addition of 2 new branches namely Artificial Intelligence & Machine Learning and IOT & Cyber Security including Block chain Technology

The department is under the leadership of Dr. Antony P J, with one one PhD holder and one more on the verge of completion. While others have commenced their research endeavors. These dedicated faculty members have made significant contributions by publishing and presenting their research findings in respected peer-

reviewed journals and conferences. The department's research output has gained recognition and inclusion in prominent scientific and research databases like SCOPUS, DBLP, SPRINGER, IEEE, and ACM. In addition to their research accomplish-ments, the faculty members have assumed key roles at the university level, serving as integral members of the Board of Studies (BoS), Board of Examinations (BoE), and participating in committees such as the Learning and Implementation Committee (LIC). The impact of the department's research extends to various reputable journals and conference proceedings, affirming their commitment to advancing the field of computer science. The department is also dedicated to enhancing knowledge and skills by organizing a range of technical training programs, workshops and seminars, catering to the development of both students and faculty members. Demonstrating a holistic approach to education, the students have showcased their talents beyond academics, securing victories in technical, cultural, and sports competitions organized by different institutions. To facilitate practical learning, the department maintains fully equipped and well-furnished laboratories, overseen by qualified lab instructors who ensure the seamless

Vision

To adapt the evolutionary changes in computer science and expose the students to the cutting edge technologies to produce globally competent professionals.

Mission

- ii To mould the students by providing quality computer education and by strengthening the Industry-Academic interface.
- ii To impart the professional skills, innovative research activities and entrepreneurial capabilities in students.

Department Activities

1. Software Testing and Importance of Accessibility Testing

The Technical Talk on “Software Testing and Importance of Accessibility Testing” enable students/ faculty to

- ◆ Understand software testing and the importance of accessibility testing.
- ◆ Use the knowledge of software testing and its applications in multi disciplinary environments

The Departments of Computer Science Engineering organized a technical talk on “Software Testing and Importance of Accessibility Testing” on 1st October 2022. Mr. Ramesha N is currently working as Manager in Excel soft Technologies Private Limited, Mysore. He briefed about basic concepts in software testing that included

1. What is Software Testing?
2. Types of Software Testing
3. Types of Disabilities
4. Compliance Standard – WCAG2.0 Levels of Compliance
5. Tools to test



2. Cybersecurity and Ethical Hacking”

The Department of CSE in association with Indian Society of Technical Education (ISTE) and Tech by heart, organized a workshop on “Cyber security and Ethical Hacking” .The event was scheduled on 22-07-2023 from 9:00 am to 4:30 pm at GD Room, 3rd floor. The workshop started with a prayer song by 1st year CSE students, The program was inaugurated by Dr. Shantharama Rai C, principal and Dr. Antony P J, Vice-Principal. The various heads of the department and all the faculties of CSE attended the inaugural function.

The students were given a brief introduction on the following topics

- ◆ Introduction to Cyber Security.
- ◆ Introduction to Ethical Hacking.
- ◆ Performing live cyber - attacks on a website using kali Linux tools.
- ◆ Developing a fake login template to breach user login details.



3.Workshop on “Build a Blockchain & Cryptocurrency | Full-Stack Edition”

The Department of CSE organized a 5 days workshop on “[Build aBlockchain & Cryptocurrency | Full-Stack Edition](#)” .The event was scheduled on 10-01-2023,16-01-2023,17-01-2023,23-02-2023,24-02-2023 from 2:00 pm to 5:00 pm at Computing Laboratory-1(A-323).The students were given a brief introduction on the following topics

- ◆ Introduction to Crypto currency
- ◆ Bitcoin and Blockchain Technology using Ethereum
- ◆ Introduction to remix IDE
- ◆ Solidity Basic and writing smart contract.
- ◆ Building Voting Application
- ◆ What is React? How to build UI using react and local Block chain
- ◆ Pet Shop Application



4.ENIGMA: Inaugural Function of the Department Student Association

The inaugural function of the branch entry, ENIGMA, took place on November 18th, 2022, at 1:30 pm in Seminar Hall 3, organized by the computer science department of AJ Institute of Engineering and Technology. The event witnessed the presence of Mr. Harish Neermarga, the esteemed chief guest, who is the founder of Accolade Tech Solutions based in Mangalore. The function marked the official commencement of the branch entry and provided an opportunity for students to gather and celebrate. Mr. Neermarga's presence added prestige and insight to the event, as he shared his experiences and knowledge in the field of technology.



5. “Hands-on Session on IOT-ESP32 and Raspberry Pi”

The IoT Club in association with Computer Society of India (CSI) organized a student development Programme on “Hands-on Session on IOT-ESP32 and Raspberry Pi”. The event was scheduled on 24-06-2023 from 9:00 am to 4:30 pm at CAED Lab, ground floor. The program was inaugurated by Dr. Shantharama Rai C, principal and Dr. Antony P J, Vice-Principal and IoT Club & CSI Chairman. The various heads of the department and all the faculties of CSE attended the



6. "ENIGMA CRICKET LEAGUE"

The Department of CSE under the banner of student association conducted Enigma Cricket league on November 19 2022 at 12:30 PM.

The auction for the event was conducted on 17th November 2022 at 2:30 pm in classroom 317. There were 4 teams that took part in the events .The teams were Techno Titans and the leader was Chirag with Prof Chanchal Antony as staff coordinator, Chase masters and the leader was Harshith and Prof Sharath as staff coordinator, Team Trojans and the leader for this team was Vidyakeerthi with Prof Vijaykumar as staff coordinator and the leader of the final team was Exson and Prof Vinayak Pai as staff coordinator. Chase masters won the league, and Team Trojans were the runner ups.



7. Farewell to the students of 2019-2023

The Department of CSE conducted branch farewell for the batch 2019-2023 on 19th May 2023 in Seminar Hall-3 at 10:00am with Bollywood theme. Ms. TejaswiSuvarna and Ms. Isha Sheikh hosted an informal program with some cultural events like dance, games from 3rd year students. Audience enjoyed the performance. A special video was designed by 3rd year students. It was played in the beginning of the informal program. The students from 3rd year conducted few amazing games for 4th year students the winners were given prize for each game. They enjoyed a lot playing fulfilled joyful games.



8." Industrial Visit

An industrial visit to TVS Motor Company, Power System Controls, MM Herbs in Mysore was organized for a group of 38 engineering students, accompanied by 2 faculty members. The primary objective of this field trip was to provide students with a hands-on learning experience, allowing them to observe and understand various concepts in a practical setting.



9.FDP on "Nanosensors and Devices"

One Week Faculty Development Program on Nano sensors and Devices was conducted by Computer Science and Engineering in association with National Institute of Technology Teachers Training & Research, Chandigarh. This One Week Short Term Course on Nano sensors and Devices provides a platform to learn the importance of nano technology, tools and techniques needed for the design and development of nano sensors and nano devices. It aims to provide the knowledge and skills needed for faculties to cater to the present-day development in nano technology and its application in various fields.



10.Social Connect and Responsibility – Heritage Tour

The Department of Computer Science and Engineering organized a field trip as a partial requirement to complete a course on Social Connect and Responsibility with the subject code UHV21UH36 for the 3rd semester students and the faculties. There were a total of 49 students and 6 faculties who participated in this field trip. The field trip was organized on 29th November at 12.30 pm to visit heritage house and artisan village of Pilikula park. This field trip was organized to introduce the students to the heritage and cultures of Dakshina Kannada region. The students engaged in activities like pottery, article making out of bamboo, they were also introduced to the art of making flattened rice using hand pounding and oil extraction using traditional approaches.



11.Industrial Visit

The Department of Computer Science and Engineering, from A J Institute of Engineering & Technology organized a one-day Industrial visit to "Adani Power Plant, Udupi Power Corporation Ltd | Yelluru Village| Udupi - Karnataka" on 26, November, 2022 for 2nd year computer science engineering students. The visit was organized with the prior permission and guidance of Coordinators Dr. Laxmi Gulappagol & Vinayak Pai G and the class advisor Mrs. Sharon C D'Souza.



12.Intra Institutional Innovation Competition and Reward Best Innovations

The Department of Computer Science and Engineering in coordination with the IIC cell – YUKTI NIR and R&D cell of AJIET organized an Intra Institutional Innovation Competition and Reward Best Innovation on 26/06/2023 to encourage teamwork, collaboration, and innovation among the students, making the event a memorable and rewarding experience for everyone involved. Project was evaluated by a Panel of Internal Judge (Dr. Laxmi Gulappagol, Mr Chanchal Antony and Mr. Arul N) and one External judge Dr. Rithin Kumar N B, Asst. Professor, Dept. of Physics. All the posters prepared by the students were exhibited with their Project Models.



13.Student Development Programme on “FLUTTER”

The Department of CSE in association with TechbyHearts organized a student development programme on “FLUTTER”. The event was scheduled on 11th and 12th AUG 2023 from 9:00 am to 4:30 pm at Research Lab, 3rd floor. The program was inaugurated by Dr. Laxmi G, HOD-CSE(INCHARGE). All the faculties of CSE attended the program.



Achievements of Students

The students from 6th Semester, Department of Computer Science and Engineering Devi prasad Rai P, Dhruv Kishore Shetty, Prateek Chandrasekar Kotian, and S. Athreya Shankar have secured First Runner Up for the project entitle “VEGSHELL” under the guidance of Prof. Snitha Shetty in IFERP- Project Competition, 2023 – Idea Phase held at Chennai on 17/04/2023.

Abhishek Mankame & Harshith J poojary of final year won 2nd Place in the event Web Designing at Sentia, MITE, Moodbidri

Abhishek Mankame & Harshith J poojary of final year won 2nd Place in the event Coding Conundrum at Sentia, MITE, Moodbidri

Abhishek Mankame & Harshith J poojary of final year won 1st Place in the event AI Olympiad Technical Quiz at Sentia, MITE, Moodbidri

Likith Shet & Nagavarshini of second year won 1st Place in the event Code Quest at Envision 2023- SIT, Valachil

Sharath Kumar, Yashas Manjar & Poojashree of third year won 2nd Place in the event Intellectium at Incredia NMAMIT, Nitte

Darshan Bhandry second year has been certified as Microsoft Learn Student Ambassador for the year 2023

Rakshitha shetty of second year won 2nd Place in the event Web Designing at Sentia, MITE, Moodbidri

Isha sheik Maanya and Sannidhi of second year won 2nd Place in the event IDEATHON – Solving Realistic Problem in and Around Mangalore as a Part of IDEACONCLAVE FOR BETTER MANGALORE 2023.

Achievements of Faculty

Dr. Antony P J has participated in FDP AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Dr. Antony P J has participated in FDP Digital Image Processing Using MATLAB” hosted by Institution For Engineering Research and publication (IFERP) from 20/02/2023 to 24/02/2023.

Dr. Antony P J has participated in FDP Emerging Methods and Models in AI & Machine Learning” hosted by IFERP from 05/04/2023 to 07/04/2023

Dr. Antony P J has participated in FDP Intellectual Property Rights (IPR) & IP Management hosted by IFERP from 26/04/2023 To 28/04/2023

Dr. Antony P J has participated in FDP Choosing Scholarly Journals and Guidelines to Publish Scientific Articles hosted by IFERP from 22/05/2023 To 24/05/2023

Dr. Antony P J has participated in FDP Advance Techniques in Machine Learning for Data Science” hosted by IFERP from 21/06/2023 to 23/06/2023

Dr. Antony P J has participated in a workshop-“Data Driven Insight for Managerial Decision Making” 20/02/2023

Dr. Antony P J has participated in a workshop“Recent Trends in Embedded Technology” hosted by IFERP on 23/02/2023

Dr. Antony P J has participated in a workshop Natural Language Processing hosted by IFERP from 25/05/2023 to 26/05/2023

Dr. Antony P J has participated in a workshop Overview of Research Simulation Tools for 5G/6G Technologies hosted by IFERP from 07/06/2023 to 08/06/2023.

Dr. Laxmi Gulappagol has participated in FDP- AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Dr. Laxmi Gulappagol has participated in FDP- AICTE approved 5-Day Faculty Development Programme on “Inculcating Universal Human Values in Technical Education” hosted by All India Council for Technical Education, Nelson Mandela Marg, VasantKunj, New Delhi from 20/02/2023 to 24/02/2023

Dr. Laxmi Gulappagol has participated in FDP- AICTE Recognized Faculty Development Programme on "SAR, OBE and NBA" hosted by NITTTR Chandigarh from 22/05/2023 to 26/05/2023

Dr. Laxmi Gulappagol has been recognized as IIC (Institute Innovation Council) Innovation Ambassador Faculty Expert Area “Design thinking & Innovation” during IIC calendar year 2022-23.

Mr. Chanchal Antony has participated in FDP AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mr. Chanchal Antony has attended one week workshop on “Introduction to Python Programming and its Application” Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapura (Dist.).

Mr. Chanchal Antony has participated in FDP Changing Role of Teachers and Evolving Profile of Students and Emerging Trends in Education hosted by AJIET, Mangaluru on 10/06/2023

Mr. Chanchal Antony has been appointed as Member of BOE for the department of M.Sc. Big Data Analytics, St. Agnes College Autonomous Center for PG studies & Research Mangalore for the Year 2022-24.

Mrs. Sharon Dsouza has participated in FDP - AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mrs. Sharon Dsouza has attended one week workshop on “Introduction to Python Programming and its Application” Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapura (Dist.).

Mrs. Snitha Shetty has participated in FDP -AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mrs. Snitha Shetty has attended one week workshop on “Introduction to Python Programming and it's Application” Organized by Visvesvaraya Technological university, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapura (Dist.).

Ms. Nikhila has participated in FDP AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mr. Vinayak G Pai has participated in FDP AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mr. Vijaykumar Dudhanikar has participated in FDP AICTE approved 5-Day Faculty Development Programme on “Nano sensors and Devices” hosted by Applied Science Department, NITTTR Chandigarh from 22/08/2022 to 26/08/2022

Mrs. Vidya Myageri has participated in FDP AICTE Recognized Faculty Development Programme on "SAR, OBE and NBA" hosted by NITTTR Chandigarh from 22/05/2023 to 26/05/2023.

Mrs. Vidya Myageri has participated in FDP Changing Role of Teachers and Evolving Profile of Students and Emerging Trends in Education hosted by AJIET, Mangaluru on 10/06/2023

Student Paper Publications

- Abhijith Rajendran, Albin Joseph, Athul Shaji, Sirius Thomas Mathews under the guidance Mr. N. ARUL - Flood Monitoring and Alert System Using International Journal of Scientific Research in Engineering and Management (IJSREM) Volume : 07 Issue: 05 | May - 2023
- Sandeep Benny, Shaham Abdulla C P, Sahad Abdulla C P, Albin John under the guidance of Mrs. Sharon C Dsouza SMART SURVEILLANCE SYSTEM USING MACHINE LEARNING- SMART SURVEILLANCE SYSTEM USING MACHINE LEARNING Volume 11, Issue 5 May 2023
- Aneesh M Bhat, Gayathri MN, Harshith J Poojary, S Shivani Acharya under the guidance of Mrs. Sharon C DSouza Social Platform for Auctioning In-Demand Tour Plans to Agencies INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11 Issue 5 May 2023
- Lakshmikanth, Mohammed Shamal, Prathik b c kulal, Omkaresh under the guidance of Mr. Vijay kumar Dudhanikar Android Messenger Application Using Flutter- INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11, Issue 5 May 2023
- Suraj J, Thrupthi, Vidya Keerthi M, Yomith T Mendon under the guidance of Mr. Vijaykumar Dudhanikar -Gesture Controlled Swarm of Mini Aerial vehicles INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11, Issue 5 May 2023
- Yashika a krishnani, YuktikaA krishnani, Khushi Pal, Kittu Kumari under the guidance of Dr. Laxmi Gulappagol - A Survey Paper on SAATHI: Women-Safety-Device Using IoT Advances in Multi disciplinary Research and Development, Scripown Publications, Delhi, Chief Editor: Dr. Dhondiram Tukaram Sakhare, Edition: 1st, Publication Year: 2023, Chapter-13, Pages: 157-179, Volume – 8
- Mr. Ramanatha Kini M G, Mr. Sharath Kumar, Mr. Abhishek D Mankame under the guidance of Dr. Laxmi Gulappagol - Smart Device to Detect Leaf Disease in Pepper/Tomato/Rice Crop using Image Processing and Machine Learning Algorithm National Conference on Emerging Innovations in Computer Science & Technology (NCEICT-2023), organized by the Department of Computer Science and Engineering, PES Institute of Technology and Management, Shivamogga on 12th May. 2023.
- Akanksha, Akanksha U Saadhana, Nazila Hamad Bhava, Arva Fathima under the guidance of Mr. Siju V Soman- Lung Cancer Prediction With CT Scan Images Using Machine Learning International Journal of Creative Research Thoughts - IJCRT, Volume 11 Issue 5.
- Exson Naveil Pereira, Shradha Sajeevan, Shrija B Shetty under the guidance of Mr. Siju V Soman- Student Sentiment Analysis using NLP and ML International Journal of Creative Research Thoughts - IJCRT, Volume 11 Issue 4
- Joel joseph, Joel joseph, Mithun kumarumesh, Vaishnav e under the guidance of Mrs. Snitha shetty- Hand Gesture Recognition System to Control Keyboard Function International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5

- Edwin Johny Michael, Jugal Alan, Nishanth E, Vamsi under the guidance of Mrs. Snitha Shetty- Image colorization and Detection using machine learning International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5.
- Chirag J Kulal, Nishanth A Shetty, Sharath under the guidance of Mrs. Vidya Myageri- CUT-FIT mobile application Project International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5, May 2023
- Abhishek D Mankame, Kaushal R, R Aditya, Sibin T S under the guidance of Mrs. Vidya Myageri- Brain Tumor Detection using Deep Learning National Conference on Emerging Innovations in Computer Science & Technology (NCEICT-2023), organized by the Department of Computer Science and Engineering, PES Institute of Technology and Management, Shivamogga on 12th May. 2023.
- Abhishek D Mankame, Kaushal R, R Aditya, Sibin T S under the guidance of Mrs. Vidya Myageri- A survey paper on Brain Tumor Detection International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5, May 2023
- Aman, Payal, Rahul H P, Rithesh N K under the guidance of Mr. Chanchal Antony- Smart Agriculture System using IoT 5th International Conference on Recent Advancements in Engineering and Technology (ICRAET – 23), Organized by: Institute For Engineering Research and Publication (IFERP), 19th & 20th May 2023
- Dhanya D Shetty, Samiksha S Nagwekar, Sahana M Naik under the guidance of N. Arul Knowledge Discovery Model for Water Quality Prediction Using Machine Learning International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 07 Issue: 05 | May – 2023



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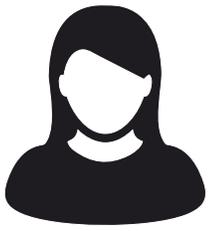
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The Department of Electronics and Communication Engineering was established in the year 2016 and current intake is 60 students. Department got accredited by NBA for a period of 3 years from 2023. The department offers undergraduate program BE, M.Sc. (Engg) and PhD in Electronics and Communication Engineering. The department has highly qualified faculty with 1 Professor, 4 Associate Professors and 9 Assistant Professors. The department is geared up with outcome-based education imparted to the students. Students at the department are consistently provided with opportunities to upgrade their technical knowledge and develop skills that make them best employable, qualified for higher education or develop them as a strong entrepreneur. The teaching faculty is actively engaged in research and they published papers in National/International conference proceedings /Journals. As a part of the curriculum, industrial visits, webinars, technical talks and workshops are arranged for students. The Institute has an IEEE, IE (I), ISTE Student's Chapter. The students actively

participate in the various activities of IE (I), ISTE and IEEE. All the students of various departments participate actively in embedded & robotics club and Radio club which is run by the department itself. Special Soft skills, aptitude and technical trainings are imparted to the students as a part of regular curriculum to make them excel in their career. The department classrooms are much spacious with LCD projectors fitted for conducting e-lectures to make learning a better experience in the department. The department also has well established and well-equipped laboratories for student's technical pursuit. Faculty members are being constantly encouraged to develop themselves through Various FDPs, conferences, workshops, publications, R& D activities and Massive Open Online Courses (MOOCs) exams. They are exposed to latest technologies like IoT, Robotics, Machine Designing, etc. through R&D labs established by industries in these fields. Students are also made industry ready through various trainings, regular company internships, mini and major projects

Vision

To be recognized as a center of excellence in the area of Electronics and Communication Engineering by nurturing the young innovative minds into skilful and ethical professionals to cater the industrial and societal needs.

Mission

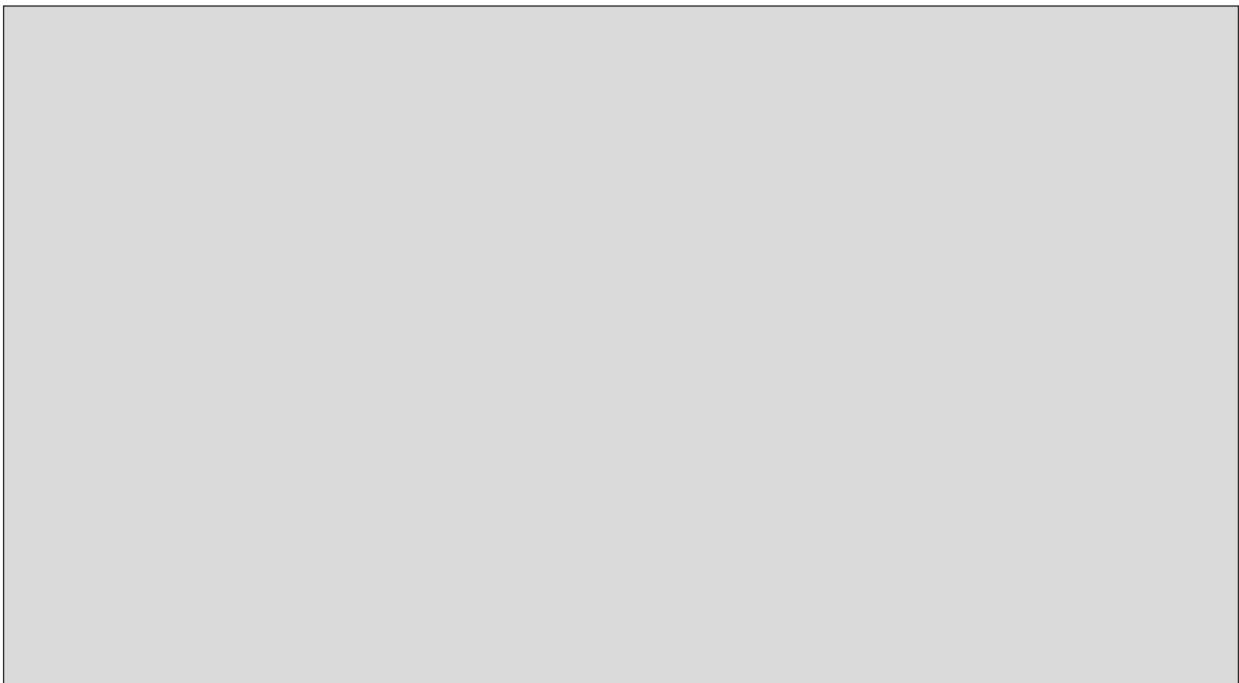
- ◆ To establish state-of-the art laboratories to facilitate research and innovation to upgrade the knowledge and skills in healthcare sector and IoT.
- ◆ To provide industry interaction for training programs on latest technology.
- ◆ To provide ethical and value based education by promoting activities addressing the societal needs.

Activities of the Department:

The branch Inauguration -2022 event was organized by the department of Electronics & Communication Engineering in association with Electrovertz Student Association on 14th November 2022.



Dr. Shantharama Rai C, Principal addressed the gathering by welcoming the 2nd Year batch into the Department and also inspired the students for taking up the opportunities and excel in the activities.



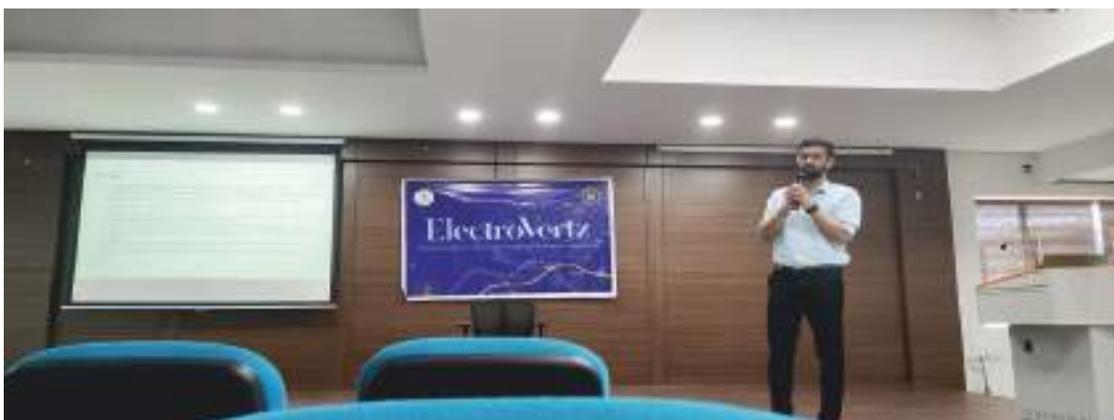
The Technical quiz event was organized by the department of Electronics & Communication Engineering in association with Electrovertz Student Association on 18th November 2022.



Tech dumb charades Activity was organized by the department of Electronics & Communication Engineering in association with Electrojets Student Association on 9th December 2022



The talk on “Advances in communication network” Activity was organized by the department of Electronics & Communication Engineering in association with Electroverts Student Association on 30th December 2022. Mr. Pratheek M Holla, Technical Solutions Engineer, Arista Networks, Australia was the resource person



Department of ECE in Association with Embedded & Robotics Club and EVSA organized three days' workshop on PCB design. Resource person of the event was G K Bhat, Kakunje Software solutions held on 19-12-2022 to 21-12-2022.



The students of 4th year ECE along with three Faculty members visited K.D.H.P. Co. Pvt Limited, Madupatty Factory on Nov 2 nd 2022.



The talk on “The AI Revolution: Driving Evolution Empowering change” was Organized by Dept. Electronics & Communication in Association with IEI Student Chapter on 24-12-2023. The resource person for the talk was Dr. Harivinod N, Associate Professor and Head of Research Centre, Department of Computer Science, St. Joseph Engineering College, Mangalore.



The Farewell Programme for the 2019-2023 batch was organized by the department of Electronics & Communication Engineering on 29th May 2023.



Achievements of Students

- 1) GEETHA DEVANGA SHETTY from 6th semester Participated in AZZDI KA AMRIT MAHOTSAV, Under Graduate Inter collegiate sing'n Dance Competition at AJIM, Mangalore on 19/04/2023
- 2) ASHLESH from 8th semester Participated in AZZDI KA AMRIT MAHOTSAV, Under Graduate Inter collegiate sing'n Dance Competition at AJIM, Mangalore On 19/04/2023.
- 3) NAVYA from 6th semester Participated in AZZDI KA AMRIT MAHOTSAV, Under Graduate Inter collegiate sing'n Dance Competition at AJIM, Mangalore on 19/04/2023.
- 4) SANIHA from 8th semester Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 5) SUJITH from 8th semester Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 6) KANISHK D AMIN from 3rd semester Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA -2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 7) SHREYA D K from 3rd semester Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 8) RESHMA S from 3rd semester Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 9) HARSHA from 1st year Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 10) VIVEK from 1year Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA - 2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 11) THRISHU from 1year Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 12) NAVYA B R from 3rd year Participated in 22nd VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 13) SAKSHI S from 1st year Participated in 22nd VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 14) THANISHA from 1st year Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.
- 15) THANISHA from 1st year Participated in 22ND VTU YOUTH FESTIVAL YUVOTHSAVA-2 held at NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY on 01/04/2023.

- 16) LAKHA PALLI 8TH Semester ECE Presented Paper Title “AJSAT” at JNANASAGAMA - 2023 NATIONAL LEVEL STUDENT CONFERENCE held on 5TH May 2023 at VCET, Puttur.
- 17) PRAJVAL 8TH Semester ECE Presented Paper Title “AJSAT” at JNANASAGAMA-2023 NATIONAL LEVEL STUDENT CONFERENCE held on 5TH May 2023 at VCET, Puttur.
- 18) RAMYA MR 8TH Semester ECE Presented Paper Title “AJSAT” at JNANASAGAMA - 2023 NATIONAL LEVEL STUDENT CONFERENCE held on 5TH May 2023 at VCET, Puttur.
- 19) SUDEEP AS 8TH Semester ECE Presented Paper Title “AJSAT” at JNANASAGAMA - 2023 NATIONAL LEVEL STUDENT CONFERENCE held on 5TH May 2023 at VCET, Puttur.

Achievements of Faculty

- 1) Dr. Gnane Swarnadh Satapathi has undergone 30 contact hours of Advanced level training under Innovation Ambassador under under MIC, Govt.of India.
- 2) Dr. Gnane Swarnadh Satapathi recognize as Session chair for IEEE Mysuru Con 2022- 2nd Edition of the Flagship International Conference series of IEEE Mysore Subsection in association with IEEE Bangalore Section hosted by NITTE Meenakshi Institute of Technology, Bangalore from 16th to 17th October 2022.
- 1) Dr. Gnane Swarnadh Satapathi done ATL Tinker preneur 2023 Special products expert session has been completed on "Building and Refining a Product" for Atal Innovation Mission (AIM), NITI Aayog, GoI, 2023.
- 2) Dr. Pushparani MK participated in the One-Week National Level Faculty Development Programme on “ Machine Learning and Data Analytics using MATLAB” on 24th April to 29th April 2023 Organized by Department of Electronics and Communication Engineering, Kalpataru Institute of Technology, Tiptur.
- 3) Mrs. Pratheksha Rai N participated in the One-Week National Level Faculty Development Programme on “ Machine Learning and Data Analytics using MATLAB” on 24th April to 29th April 2023 Organized by Department of Electronics and Communication Engineering, Kalpataru Institute of Technology, Tiptur.
- 4) Mrs. Deepashree AP participated in the One-Week National Level Faculty Development Programme on “ Machine Learning and Data Analytics using MATLAB” on 24th April to 29th April 2023 Organized by Department of Electronics and Communication Engineering, Kalpataru Institute of Technology, Tiptur.
- 5) Dr. Kiran kumar G V participated one day workshop on “Importance of Innovation and Entrepreneurship in Higher Education Institutions (HEI)” on 10th April 2023 Organized by NMAMIT, NITTE.
- 6) Dr. Pushparani MK participated 2 days in National Level Faculty Development Programme on “Research Methodology for Social Science” on 22nd & 23rd April 2023 Organized by Star International Foundation for Research and Education, TN.

- 7) Mr. Ganesh UG Completed Certification Course on “ Verilog HDL Fundamentals for Digital Design and Verification” on 17/5/2023 by Udemy.

Faculty Publications

1. R. K. Mahapatra, N. S. V. Shet, G. S. Satapathi, B. S. Patro, and D. Satapathy, "Analysis of Modulation schemes Using Rayleigh and AWGN channel for wireless sensor nodes in Internet of Things," *2023 International Conference on Recent Trends in Electronics and Communication (ICRTEC)*, Mysore, India, 2023, pp. 1-5, doi: 10.1109/ICRTEC56977.2023.10111921.
2. Mahapatra, Ranjan Kumar, Gnane Swarnadh Satapathi, Pradeep Kumar, Akshith N. Shetty, Shashwath Shettigar, J. P. Abhinav, B. Shivalal Patro, and Dipika Satapathy. "Design and analysis of micro strip patch antenna." *2023 International Conference on Recent Trends in Electronics and Communication (ICRTEC)*. IEEE, 2023.

Projects selected for KSCST-2023:

SI No	Title	Fundency Agency	Year	Grant Received	Investigator	Status
1.	Bilirubino meter	KSCST	2023	5,000/-	Dr. Shantharama Rai C Dr. Kiran Kumar VG	Granted
2.	Low Cost Smart Spirometer	KSCST	2023	5,000/-	Dr. Gnane Swarnadh Satapathi Dr. Ranjan Kumar Mahapatra	Granted

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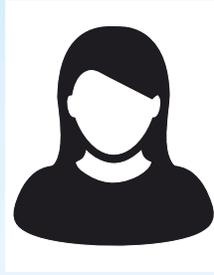
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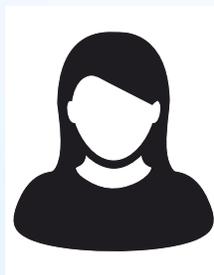
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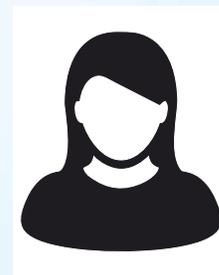
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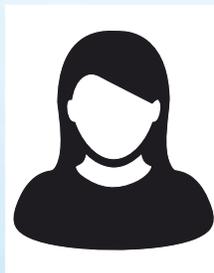
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ECE ENGG

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The Department of Information Science and Engineering was established in the year 2016 with the establishment of AJIET, Mangalore. The department is offering a bachelor of engineering program in Information Science & Engineering with an intake of 60 with excellent infrastructure. The department has well-qualified dedicated teaching and non-teaching staff with well-equipped laboratories to fulfil the academic needs of the students. The major goal of the department is to produce highly knowledgeable, competent and resourceful young engineers who can excel in their respective profession. The Department of Information Science and Engineering has been accredited by National Board of Accreditation (NBA) for the period of three years (2022-2025).

Vision

To be a centre of excellence in Information Science & Engineering education, research and training to meet the growing needs of the industry and society

Mission

- ◆ M1: To impart theoretical and practical knowledge through the concepts and technologies in Information Science and Engineering
- ◆ M2: To foster research, collaboration and higher education with premier institutions and industries.
- ◆ M3: Promote innovation and entrepreneurship to fulfil the needs of the society and industry

Activities of the Department

The Department of Information Science and Engineering organized a technical talk on Cyber security and Ethical Hacking on 22nd July 2023. Ms. Shreya, QA Analyst at Rockstar Software, Mangalore was the Resource Person



The Department of Information Science and Engineering organized a workshop on Cybersecurity on 22nd May 2023. Mr Prem kumar Cyber security Engineer@Novigo Solutions Pvt.LTD , Mangalore was the resource person.



The department has conducted “INAGURAL CEREMONY OF HIEKS” ; The Student Association inaugural ceremony on 17-11-2022 at 02:00PM to 5:00PM and Ms. Likhita, HR in codecraft was the Chief guest.



The department also conducted five days skill development program on Mobile Application Development from 15/5/2023 to 19/5/2023. The resource person was Mr. Navile Nageshwara Naveen. Asst professor, Dept of CSE Jyothy Institute of Technology, Bangalore.



Technical committee, dept of ISE, AJIET has organised webinar on AI&ML on 8/3/2023. The resource person was Mr. Raghavendra Katagall, Quality co-ordinator Edureka learning Centre, Mangalore.



The department has conducted Technical talk on Blockchain Technology on 18/11/2022. The resource person was Shibas Kunju, CTO(Blockchain)-Snapper Future Tech.



The Department of ISE conducted branch farewell for the batch 2019-2023(HASTA LA VISTA) on 19/05/2023.



Industry Visit

Industrial visit of III Year ISE Students on 18-11-2022 at software industry “Glow Touch”, Silver Spirit Tech Pak 316-318, WAP Factory Road, Hebbal, Mysore.



A grand celebration of Aayudha Pooja was held on 04-10-2022 in Hardware laboratory of ISE department at 09.30AM onwards in the presence of Principal Dr.Shantharam Rai C, and HOD of ISE Department Dr.Suresha D and HOD's of various Departments along with Faculties and students.



Achievements of Students

Shifali Shetty student of 3rd year ISE won First Place in Volleyball, Taluq level Dussehra sports meet held at Mangalore in the year 2022-23.

Melroy Peter Tellis of 3rd year ISE has participated in individual Kumite event in Male Blue and Purple Belts 55 to 60Kgs category and won First Place in 40th BKI National Karate Championship -2022 held from 4th to 6th November 2022 at Amrith Garden, Udupi, Karnataka.

Melroy Peter Tellis of 3rd year ISE has participated in individual Karate event in Male Blue and Purple Belts above 18 years category and won First Place in 40th BKI National Karate Championship -2022 held from 4th to 6th November 2022 at Amrith Garden, Udupi, Karnataka.

Mayoori .P of 3rd year ISE has got Runner Up in Taekwondo Inter Zone Competition held at S.I.T Tumakuru from 20/12/2022 to 21/12/2022.

Achievements of Faculty

Prof. Naganna Chetty, "Hate and False Metaphors: Implications to Emerging E-Participation Environment", in International Journal, future internet, Nov 2022.

Prof. John Prakash Veigas, "Deep learning approach for Touchless Palmprint Recognition based on Alexnet and Fuzzy Support Vector Machine", International Journal of Electrical and Computer Engineering Systems, ESCI & Scopus, September 2022.

Prof. Prabhakara B K, "Hybrid Meta-Heuristic Technique Load Balancing for Cloud-Based Virtual Machines", International Journal of Intelligent systems and Applications in Engineering, January 2023.

Prof. John Prakash Veigas, "AI as a new Psychotherapist-To Learn and Fight Mental Illness", International Scientific Journal of Engineering and Management, International Journal, May 2023

Prof. John Prakash Veigas, "Gammadion based Local Binary Pattern with Shearlet coefficients for Palmprint Recognition ", International Journal of Intelligent Systems and Applications in Engineering, International journal, Scopus 1.4, July 2023.

Prof. Mrs. Sharanya P S, "Textify - Lip Reading to text", International Scientific Journal of Engineering and Management, International Journal, May 2023.

Prof. Mrs. Sharanya P S, "EMOTIFY-Emotion Based Music Player", International Scientific Journal of Engineering and Management, International Journal, May 2023.

Prof. Divya, "Public Work Department Fund Allocation and Tender Tracking System using Blockchain", International Scientific Journal of Engineering and Management, International Journal, May 2023.

Farewell Function Photos



List of Student Project Proposals Approved for Sponsorship

Sl. No	PROJECT REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN RS.)
1	45S_BE_1518	IMAGE REGENERATION FOR OLD DAMAGED REEL PICTURE	B.E.	ISE	Mr. JOHN PRAKASH VEIGAS	Ms. YASHWINI Ms. MEGHASHREE Ms. PAVITHRA Ms. ZUBAIDA SHAIMA	4,500.00
2	45S_BE_1967	CHRONIC DISEASE PREDICTION AFTER COVID-19 USING MACHINE LEARNING	B.E.	ISE	Dr. SURESHA D.	Ms. SWAPNA Ms. PRATHEEKA H Ms. SAAMIYA Ms. TANYA MENDON	3,000.00

Faculty and Staff



Fourth Year Students (2022-23)



Students Association -HIEKA



ECE ENGG

Graduates of the Year 2022-23



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Established in the year 2016, the Department of Mechanical Engineering has excelled in its infrastructural facilities keeping pace with the latest development in technologies. Mechanical Engineering is a wonderfully diverse subject and it can be best summed up with a slogan from the professional body, the Institution of Mechanical Engineers – 'Nothing moves without Mechanical Engineers'. Whether it is an aircraft, car, train, satellite or an artificial knee replacement, mechanical engineers play an important role.

Vision

To create globally competent and self-reliant mechanical engineers adaptive to an interdisciplinary environment contributing to society through development, authority and entrepreneurship.

Mission

- M1: To offer high quality graduate program in the field of Mechanical Engineering with value education to the students and make them responsive to societal needs.
- M2: To nurture the students with a global outlook for a sustainable future with high moral and ethical values.
- M3: To strengthen collaboration with industries, academia and research organizations to enrich learning environment, thus enhance research and entrepreneurship culture.
- M4: To create awareness about the need of interdisciplinary applications through alumni industry-institution interactions.

Department Features & Facilities

- Highly qualified faculty- a team of well experienced faculty to encourage and inspire students to excel in their fields.
- State-of-the-art research laboratories- Sophisticated and advanced lab equipment for curriculum and Research for student and faculty in the field of mechanical engineering
- Innovative clubs – Department has various clubs for the students such as Automotive club, Aero club, Robotic club, EDC to develop valuable skills among students such as teamwork, work ethics and start-up ideas.
- Industrial visits- students have visited leading Research institutes like CSIR-NAL, IISc Bengaluru, FESTO, Toyota, and MIT Manipal to provide students a good opportunity to gain full awareness about industrial practices. Through industrial visit students get awareness about new technologies.

- Technical talk – Department Organizes Guest Lectures by eminent Speakers from Reputed Institutes and Industry
- Hands on Workshop- Department regularly conducts effective workshops for students on mechanical domains like IC Engines, Refrigeration & AC and softwares to meet Industrial demands
- Placement assistance & Training- training programmes are conducted to attain certain skills such as Creativity, Problem-solving skills, communication skills and other software tools which are important for Mechanical engineering students to achieve good placement in various Industries.
- Research led Culture - Faculty expertise in the area of cryogenics, IC engines, Aerodynamics, Fatigue Crack growth, Renewable energy lead the research in department to mould the students to be Industry Ready.
- Institute – Industry collaborations- Institute-Industry interaction and MOUs with industry and research institutions have ensured that students obtain best possible exposure to multiple learning experiences.

1. Inaugural Function of ARMS The formal Inaugural ceremony of Association of Royal Mechanical Students (ARMS) 2022 -2023 started at 2:00 PM in the seminar Hall-1 of AJIET, Mangaluru on 16-11-2022. The chief guest of the function was Mr. Kalbavi Prakash Rao Former President CII Mangalore, Managing Partner Kalbavi Cashews.



2. Department of Mechanical Engineering in association with Automotive club organized Electric Vehicle awareness Program by Hyundai Motors, India for Mechanical and Electronics students on 11-11-2022 at 2 pm in Seminar hall 3.



3. 30 Students of 3rd Semester along with Dr. Vighnesha Nayak visited Government Tool Room and Training Center on 16-12-2022.



4. 20 Students of 3rd Semester along with Mr. Sudesha Shetty M visited Government Tool Room and Training Center on 23-12-2022 at 2.00 PM.



5. 30 Students of 3rd Semester along with Mr. Sudheer Kini K visited Lamina Foundries Limited, Nitte, Karkala on 16-12-2022.



6. 20 Students of 3rd Semester along with Mr. Prasad B G visited Lamina Foundries Limited, Nitte, Karkala on 23-12-2022 at 2.00 PM.

7. Certification course on AUTOCAD from 16-11-2022 to 09-01-2023 by Ms. Jahnvi Senior Training Head, AUTOCAD, Digi CADD Mangalore. 28 students from 2nd year enrolled for this course and trained on various basic drawings and machine parts.



8. 18 Students of 5th Semester along with Dr. Sreejith B K and Mr. Sudheer Kini K visited Deccan Plast Industries, Konaje on 23-01-2023.

9. 18 Students of 5th Semester along with Dr. Sreejith B K and Mr. Sudheer Kini K visited JV Springs Baikampady, Mangaluru on 23-01-2023. JV Springs, Brahmas Engineering and Construction Company Ltd. deals with Manufacturing and sale of Automobile leaf springs and assembling.



10. Certification course on CATIA held on 19-12-2022 to 25-01-2023 for 3rd year students. Total 17 students were enrolled for this training course. Resource Person was Mr. Swastik Nanda CADD Engineer CADD Centre, Mangaluru.

11. Department of Mechanical Engineering has organized workshop on Air-conditioning and Refrigeration for 2nd year Mechanical Engineering students on 17-02-2023 at 2pm in Machine shop Laboratory.



Achievements of Faculty

1. V. Nayak, A.V. Karthik, B.K. Sreejith, B.G. Prasad, & K. Sudheer Kini, "Performance, combustion and emission characteristics of single cylinder CI engine with WCO bio diesel and nano particles", Materials Today: Proceedings, Volume 52, Part 3, 2022, Pages 1570-575, ISSN 2214- 7853, <https://doi.org/10.1016/j.matpr.2021.11.249>.
2. Sreejith B. K. of AJIET has participated in one-week GIAN program on organized by the Department of Mechanical Engineering, B. M. S. College of Engineering, Bengaluru, from 20th to 4th June 2022.
3. Sudheer Kini K, Assistant Professor of A J Institute of Engineering and Technology, Mangaluru has participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Innovations in Computer Aided Design Simulations" from 12-12-2022 to 17-12-2022 by NIT Rourkela.
4. Prakhyath of AJIET has participated in five day online FDP on "Thermal science and materials Engineering" organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuram, from 07th to 11th November 2022.
5. Sudheer Kini K of AJIET has participated in five day online FDP on "Thermal science and materials Engineering" organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuram, from 07th to 11th November 2022.
6. Prakhyath of AJIET has participated in one day FDP on "Changing role of teachers and evolving profile of students and emerging trends in education " Conducted by NEP committee in association with IQAC Committee, AJIET on 10th June 2023
7. Nithin Shet of AJIET has participated in one day FDP on "Changing role of teachers and evolving profile of students and emerging trends in education " Conducted by NEP committee in association with IQAC Committee, AJIET on 10th June 2023.
8. Sudheer Kini K of AJIET has participated in one day FDP on "Changing role of teachers and evolving profile of students and emerging trends in education " Conducted by NEP committee in association with IQAC Committee, AJIET on 10th June 2023.
9. Dr. Sunil Kumar S has been recognized as 'Research Supervisor' to guide Ph.D scholars by Visvesvaraya Technological University, Belagavi.
10. Dr. Sunil Kumar S has participated in, Ministry of Education, Govt. of INDIA sponsored, AICTE Recognized Workshop on "INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION" (UHV-I) from 20-02-2023 to 24-02-2023 (5 days)
11. Dr. Sunil Kumar S has participated in, FDP on "RECENT ADVANCEMENTS IN MATERIALS AND MANUFACTURING" organized by SJEC, Mangalore in association with Institute of Engineers from 13-02-2023 to 15-11-2020 (3 day)
12. Dr. Sunil Kumar S has participated in, Ministry of Education, Govt. of INDIA sponsored, AICTE Recognized Workshop on "Engineering Materials – Design and Simulation" organized by National Institute of Technical Teachers Training and Research, Chandigarh from 15-02-2023 to 18- 02-2023 (3 days).
13. Dr. Sunil Kumar S has participated in, Ministry of Education, Govt. of INDIA sponsored, AICTE Recognized Workshop on "INCULCATING UUNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION" (UHV-II: Understanding Harmony and Ethical Human Conduct).

14. Dr. Sunil Kumar S has been a reviewer of a manuscript of Materials Today (Elsevier Publication) Ms. Ref. No.: MATPR-D-23-02767 Title: Computational Fluid Dynamics (CFD) Analysis of Air-Cooled Solar Photovoltaic (PV/T) Panels.
15. Dr. Sunil Kumar S has reviewed 3 Papers - for Scientific. Net - "5th International Conference on Materials Science and Manufacturing Technology" Dr. Sunil Kumar S has reviewed a Journal papers - for the Scientific Iranica. - Manuscript ID: SCI-2209-7138. Manuscript Title: Comparison of notch fabrication methods on the impact strength of FDM-3D printed PLA specimens: experimental study and finite element analysis
16. Dr. Sunil Kumar S has participated in, Ministry of Education, Govt. of INDIA sponsored, AICTE Recognized Workshop on "Nano sensors & Devices " organized by National Institute of Technical Teachers Training and Research, Chandigarh from 22-08-2022 to 26- 08-2022 (5 days)
17. Dr. Vighnesha Nayak of AJIET has participated in five day online FDP on "Thermal science and materials Engineering" organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuram, from 07th to 11th November 2022.
18. Dr. Vighnesha Nayak of AJIET has participated in one day FDP on "Changing role of teachers and evolving profile of students and emerging trends in education " Conducted by NEP committee in association with IQAC Committee, AJIET on 10th June 2023.
19. Mr. Prasad B G of AJIET has participated in one day FDP on "Changing role of teachers and evolving profile of students and emerging trends in education " Conducted by NEP committee in association with IQAC Committee, AJIET on 10th June 2023.
20. Mr. Prasad B G , Assistant Professor, Department of Mechanical Engineering, AJIET has participated in one week FDP on "HYBRID ELECTRIC VEHICLES " Jointly organized by the Departments of Mechanical Engineering of GMR Institute of Technology, Rajam and Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada during 21st -25th November 2022.
21. Mr. Prasad B G , Assistant Professor, Department of Mechanical Engineering, AJIET has participated in five day online FDP on "Thermal science and materials Engineering" organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuram, from 07th to 11th November 2022.
22. Dr. Vighnesha Nayak of AJIET has participated in two day International Conference on "Recent Trends in Mechanical Engineering Science (RTIMES)" organized by the Department of Mechanical Engineering, Srinivasa Institute of Technology, Valachil, Mangaluru from 26th to 27th May 2023.
23. Dr. Vighnesha Nayak of AJIET has participated in two day International Conference on "Recent Trends in Mechanical Engineering Science (RTIMES)" organized by the Department of Mechanical Engineering, Srinivasa Institute of Technology, Valachil, Mangaluru from 26th to 27th May 2023.
24. Mr. Prasad B G of AJIET has participated in two day International Conference on "Recent Trends in Mechanical Engineering Science (RTIMES)" organized by the Department of Mechanical Engineering, Srinivasa Institute of Technology, Valachil, Mangaluru from 26th to 27th May 2023.

Achievements of Students

1. Vikith Salian student of 2nd year has participated in AJIET TECH EXPO -2021 held at AJIET, Mangaluru on 15-08-2022.
2. Yojith, Rakshith Acharya, Shravanraj Kambli, Vasanth Kumar T S students of 4th year has selected for the Seminar/Exhibition Funded by KSCST during 45th Series of Student Project Programme (SSP) held at VTU, Belagavi on 12-13th August, 2022.
3. Vikas R Shetty, Shreyank S, Maneesh NK and Trivikram from 4th Year Mechanical Engineering Department of AJIET have won Best paper award in 2nd International Conference on Recent Trends In Mechanical Engineering Science RTIMES 2023 held at SIT Valachil on 26th & 27th May, 2023.



4. Eshank Jalan from 4th year has won First Place in Intra Institutional Innovation Competition organized by AJIET Mangaluru in the academic year 2022-23.
5. Abhishek Kumar Padavu, Akhil Sajeev, Ashik H S, Bhuvan B Shetty, Deepak, Gautham J Puthran, Jiben Jacob, Joel Sibi, Manish, Muhammed Shaz T P. Arun P N, Prashanth Sankappa K, Sandeep K Unnikrishnan, Sangeeth Dinesh, Shivanesh R, U Sagar, Prathik from 3rd year have completed CATIA certification course by CADD Centre, Mangaluru on January 2023.
6. Abhishek Kumar P of 3rd year Mechanical Engineering completed a two day-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
7. Abhishek Kumar P of 3rd year Mechanical Engineering completed 3 days of Placement Preparation Program.
8. Abhishek Kumar P of 3rd year Mechanical Engineering attended a Webinar on Artificial Intelligence on 17-10-2022.
9. Abhishek Kumar P of 3rd year Mechanical Engineering successfully completed a program on JAVA Introduction on 17-09-2022 by Learn Tube, Career Ninja in association with JAY DESAI.
10. Jeriel Sean of 3rd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
11. Bhuvan B Shetty of 3rd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
12. Bhuvan B Shetty of 3rd year Mechanical Engineering completed 3 days of Placement Preparation Program.

13. Abishek Kumar Padavu, Akhil Sajeev, Ashik H S, Bhuvan B Shetty, Deepak, Gautham J Puthran, Jiben Jacob, Joel Sibi, Manish, Muhammed Shaz T P, Nuhman. Arun P N, Prashanth Sankappa K, Sandeep K Unnikrishnan, Vikith V Salian, Shivanesh R, U Sagar, Prathik from 3rd year have conducted outreach activity on “Basics of computer and Software” for a period of two weeks (10/2/2023 to 24/2/2023) in D.K.Z.P Higher Primary School, Kodikal, Mangaluru.
14. Nuhman of 3rd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
15. Akhil Sajeev of 3rd year Mechanical Engineering participated in One week Beach Clean-up Event organized by “ Students of Development(SFD)” in collaboration with MCC from 01/01/2023 to 08/01/2023.
16. Jeriel Sean of 3rd year Mechanical Engineering completed 3 days of Placement Preparation Program.
17. Ashik H S of 3rd year Mechanical Engineering won 2nd Place in CADD Modelling Competition organized by AJIET, Mangaluru on 11/05/2023.
18. Ashik H S of 3rd year Mechanical Engineering won 3rd Place in 4x100 mtr(Men) relay event organized by AJIET, Mangaluru on 17/12/2022.
19. P N Arun of 3rd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
20. P N Arun of 3rd year Mechanical Engineering completed 3 days of Placement Preparation Program.
21. Gautham J Putran of 3rd year Mechanical Engineering participated in One week Beach Clean-up Event organized by “ Students of Development(SFD)” in collaboration with MCC from 01/01/2023 to 08/01/2023.
22. Gautham J Putran of 3rd year Mechanical Engineering completed 3 days of Placement Preparation Program.
23. Gautham J Putran of 3rd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
24. Saif Ahmed of 2nd year Mechanical Engineering completed a two day hands-on training programme on Go-Kart held from 21-22 August 2022 at AJIET.
25. Naswif Noushad from 2nd year successfully completed AUTOCAD certification course by DigiCADD, Mangaluru from November-December 2022.

Funded Projects

Sl No	Title of Project	Guide	Students Name	Amount (Rs.)	Funded by
1.	INVESTIGATION ON PERFORMANCE ENHANCEMENT OF PHOTOVOLTAIC-THERMOELECTRIC INTEGRATED SYSTEM	Mr. SUDHEER KINI K & Dr. SREEJITH B K	Mr. ABDUL BASITH A Mr. AKASH MOHANAN Mr. PRAJWAL SHETTY Mr. SAJUN V N	8,000/-	Student Project Programme - 46th Series", Karnataka State Council for Science and Technology (KCST)

Faculty and Staff



Fourth Year Students (2022-23)



Student Association -ARMS





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DEPARTMENT OF BASIC SCIENCE & HUMANITIES

The Department of Basic Science and Humanities started from the beginning of the college in 2016. Knowledge in basic science forms the base of Engineering. Department of Basic Science and Humanities aims to fulfil this function most efficiently. This Department is devoted to foster the fundamental principles and understanding of science to enhance the students' basic knowledge of Engineering. The Department comprises different subjects of study namely Engineering Mathematics, Engineering Physics, Engineering Chemistry, Humanity and English. The students of our college are highly benefited by the knowledge and experience of many doctorates of the department. Well-experienced and highly qualified faculty members of the department have made consistent and strenuous efforts to improve the students learning, research and development processes. The department has state-of-the-art Physics Lab, Chemistry Lab and English language laboratory facilities.

Basic Science and Humanity Staff Members



Department Of Mathematics:**Publications:**

1. Dr. Shantha Kumari K has published a paper titled “A note on generalizations of Bailey's Identity involving products of generalized hypergeometric series”, Communications of the Korean Mathematical Society, ISSN 1225-1763, vol. 37, no. 2, pp. 575–583, Apr. 2022, <https://doi.org/10.4134/CKMS.C210178>
2. Dr. Shantha Kumari K has published a paper titled “On A new Class of Finite Integrals Involving Generalized Hypergeometric Function” in Thai Journal of Mathematics (TJM), Volume 20 Number 1 (2022), Pages 245–255. <https://thaijmath.in.cmu.ac.th/index.php/thaijmath/article/view/3780>
3. Dr. Shantha Kumari K has published a paper titled “ Certain Integral Formulae Associated with the Product of Generalized Hypergeometric Series and Several Elementary Functions Derived from Formulas for the Beta Function” in Symmetry, 14(2), 389, 2022 <https://doi.org/10.3390/sym14020289>
4. Dr. Shantha Kumari K has published a paper titled “On an integral involving I-function, Commun. Korean Math. Soc., ISSN 1225-1763, Vol. 37, No. 1, 207-212, 2022 <https://doi.org/10.4134/CKMS.C210038>

Achievements:

1. Dr. Shantha Kumari K successfully Delivered an Invited talk on “Hypergeometric function and its various generalizations” as a resource person in the national seminar held at Gurudev College, Payyannur, Kerala, on 13th March, 2023.
2. Dr. Shantha Kumari K Successfully completed 8 days course on cyber security during 7th November to 16th November 2022, organized by ICT Academy under Microsoft Cyber shiksha for educators program.
3. Dr. Shantha Kumari K attended a 3 days FDP on “Mathematics Using Python“ from 8th December 2022 to 10th December 2022” at VVCE, Mysore
4. Dr. Shantha Kumari K Participated and successfully completed One Week AICTE–VTU Joint Teachers Training Programme on “Introduction to Python Programming & its Applications” from 13th to 17th March 2023 Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.)

Department of Chemistry:**Publications:**

- 1) Dr. Shobhitha Shetty has published a paper titled “Metal complex based on chitosan Schiff base as potent antimicrobial and Antioxidants” , Science, Technology and Development Volume XII Issue V MAY 2023 (75-98); ISSN : 0950-0707.

Facilities @ AJIET

Smart classroom

We Provide smart classroom in which a learning area that has a tutor equipped with audio-visual equipment and computer. This method allows the tutor to teach with the help of a wide range of media that includes interactive white board, PPT's, and data projector. Smart classes make teaching as well as learning a pleasant and enjoyable experience for students while enhancing academic performance.



Central Computer Centre



Central Computing Centre of the college has been set up in the Ground Floor and it will provide access of network to students and staff. Facility includes a server room, browsing area with 48 desktops, UPS room and printers. For the network services, CCc has the high end computational servers on which accounts are given to students, staff and faculties of various departments. The college computing facilities are also used for conducting various online tests

Health Care

The health care functions to provide immediate medicinal and first aid to all students and staff if the situation arises in the separate room earmarked the said facility. Doctors are available on call whenever the need arises. The institution further refers to A.J Hospital, to provide specialized care if a student needs it. Medical facility is also extended to the physical education department of the college at the time of Sports Events.



Seminar hall



The institute has 3 Seminar halls which hosts to so many seminars, symposiums and cultural activities. Equipped with state-of-the-art inbuilt audio-visual system, the fully air conditioned seminar hall has a seating capacity of 250. These make it an ideal place to conduct meetings and workshops, make presentations and screen movies for students.

Board Room

The Executive Boardroom is designed to support the shared governance goals of the University providing a unique, professionally furnished space for large group meetings. The room has a seating capacity of 20 and is used to host advisory councils, committees, and other gatherings and meetings.



ERP System

Our Institution has a cloud based educational ERP software that enables institution to manage online student monitoring attendance, grades, assignments, etc. It can also generate online results, mark sheet, students' performance reports, etc & simplify the hassles of faculty. It helps in end-to-end solution for colleges to improve operational efficiency & institutional outcomes by automating Student-Faculty life cycle and campus administration.



Hostel

The college has comprehensive hostel facilities for the students. Two blocks of hostels one for girls and the other for boys is separately provided to accommodate around 400 students. The rooms are well furnished with Clean and airy atmosphere, the rooms offer beds, wardrobes and study tables and chairs with hygienic Mess facility round the clock.

A common room with recreational facilities, Hot and cold water supply, laundry facilities and mess with dedicated staff and nutritional menu are features of each of the hostels, besides an, Entertainment area.



Auditorium

The college is having a huge indoor auditorium with a professionally-deployed acoustic system and a seating capacity of about 500 people. This auditorium has an immense pride of having hosted several National Level Conference and Seminars. The objective behind the auditorium is to enhance the quality of education. To make this possible, the auditorium offers facilities such as LCD projectors, screens for delivering lectures. It also provides ample opportunity for our staff and students to exhibit their talents in cultural activities.



Cafeteria

The college has two Cafeterias where a wide variety of food ranging from breakfast, lunch, a quick snack or a cup of coffee is in the offering at the lowest rates and keeps student pretty pleased. Conveniently located in the college quadrangle, the spacious canteen is seen as the hub of all activities with students and staffs who get to break free from routine life to have a quick bite of appetizing food.



Language Lab

The Institution has a modern Language Laboratory with state-of-the-art audio-visual equipment to aid in imparting language skills. The Laboratory is effectively utilized by students and faculty members for various self-enhancement and soft skill development activities. The basic purpose of the lab is to provide students a platform to enhance English language skills, communication skills and to practice soft skills aiming at improved Placements.



ATM Facility

The Campus equips us with a well maintained and well managed round the clock Canara Bank ATM facility within its campus facilitating the students, faculties and staff members to perform all the required transactions safely within the reach of a few push of key buttons.



LIBRARY AND INFORMATION CENTRE

AJIET Central library with its state-of-the-art infrastructure facilities provides a good academic atmosphere in extending comprehensive and wide ranging services to the users. The carpet area of the library is 708 Sq. mts can accommodate 232 users at a time. The library has more than 14166 books including General Book Bank books and SC/ST Book Bank books. The library has an issue and reference of text books, competitive exam books like GATE and CAT, general knowledge books, novels by popular authors and some social impact books, which help students develop an all-round personality. The library has a reading room, a stock area for books, a reference section and a book bank. All the books are categorized and arranged as per Dewey Decimal Classification Scheme (DDC – 23rd edition). Library is provided Closed Circuit Television System (CCTV) to enable security system for the detection of any undue incidents.. EASYLIB Library Management System Software has been installed for automating the entire library operations. Barcode technology is available for library housekeeping transactions. EASYLIB stands for Complete Automation System for Libraries is an integrated system that has all the modules needed to run a library professionally and efficiently.

Journals and magazines : Library subscribes 61 Indian Journals and 17 International Journals for students and faculty academic reference and research activities.

Digital Library : AJIET Central Library has a well-equipped digital library with 24 multimedia computers that can access to more than 11000 online journals, more than 21000 E books, 7800 abstract articles, remote access facility through K-nimbus, 5,30,000 IEEE proceedings from various publishers, Drillbit Plagiarism Originality online check etc are Available through VTU Consortium. It is a member of DELNET (2500+ e-books and 1567 e-journals) providing access to STEM subjects.

NDL membership : A. J. Institute of Engineering and Technology is registered as an institutional member of the National Digital Library and NDLI Club, sponsored by the MHRD and designed by IIT Kharagpur.

Library Staff



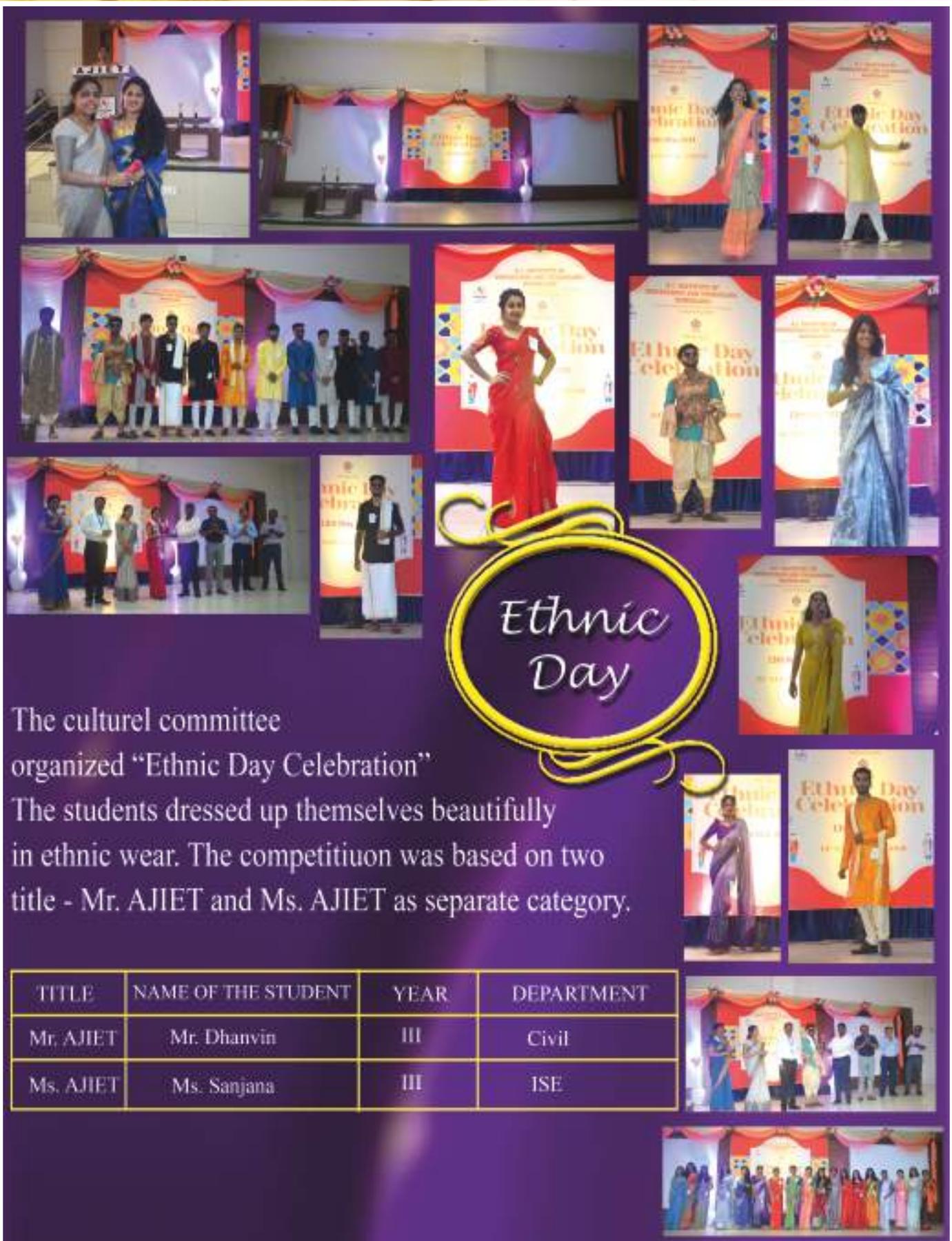


Science Day 2023



AYUDHA POOJA CELEBRATION





Ethnic Day

The culturel committee organized "Ethnic Day Celebration" The students dressed up themselves beautifully in ethnic wear. The competituon was based on two title - Mr. AJJET and Ms. AJJET as separate category.

TITLE	NAME OF THE STUDENT	YEAR	DEPARTMENT
Mr. AJJET	Mr. Dhanvin	III	Civil
Ms. AJJET	Ms. Sanjana	III	ISE



Prize Distribution





Freshers Day 2023





GLOBAL
CONFERENCE
HELD AT
AJJET





AJIET ANNUAL ATHLETIC MEET – 2022

was organised at A.J Institute of Engineering & Technology, by Sports committee with the help of all staff members on 17 th December 2022 from 9.30 AM to 6.00PM. The inaugural session started at 9.30AM with march past of all classes from different branch followed by college flag hoisting and floral welcoming the guests. Dr. Shantharama Rai C, Principal, AJIET addressed the gathering through his energizing words about the importance of sports and discipline in day today life later he declared the Annual Athletic Meet Open and handed over the lighted torch to Mrs Mayoore P of 3rd year ISE student. All the HOD's of various branch, teaching and non teaching staffs were present in the inaugural function. Lunch was arranged for all the faculties and students at 12.30 PM in hostel mess. The afternoon session started at 2.00PM after the lunch break. There were many track and field events organized for students, 100 Mtr, 200Mtr, 400Mtr, 800Mtr, 1500Mtr, Long Jump, High Jump, Discus Throw, Javelin Throw. Valedictory Ceremony was held at 5.00PM. Principal, HODs of various department and all faculties were present for the function. All the prizes are distributed in the valedictory ceremony. The Results are as follows:

Overall Championship: Department of CSE

Individual Champion (Men) : Mr. Amal Domenic VII th Sem ECE

Individual Champion (Women) : Ms. Swathi, VII rd Sem ISE

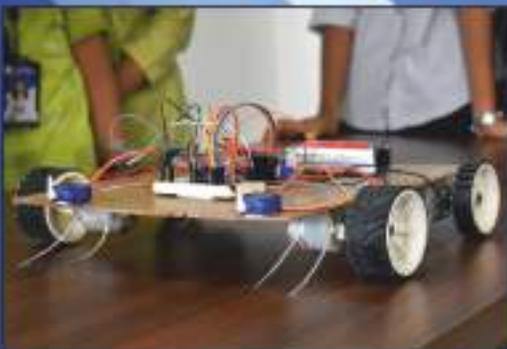
March past winners: Ist year ECE

ONAM CELEBRATION





Project Expo





NBA - 2022

Day-1



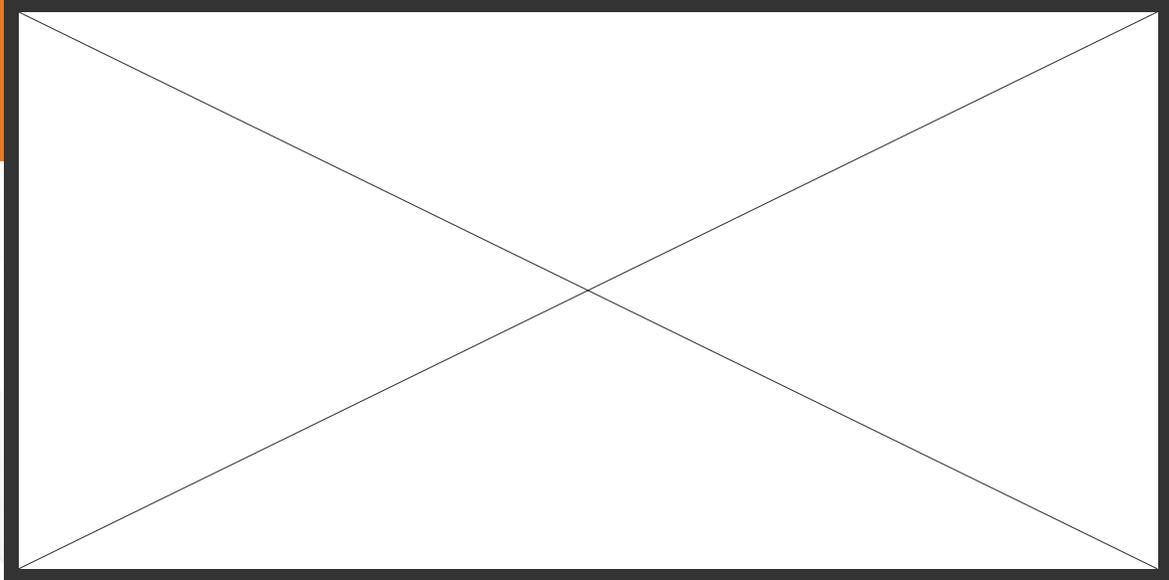




Republic Day Celebration



Student Welfare Committee



COMMITTEES

Research and Development Committee



COMMITTEES



SC-ST Committee



COMMITTEES

Transportation Committee



COMMITTEES



Hostel Committee



COMMITTEES

Academic Audit Committee



COMMITTEES



Maintenance Committee



COMMITTEES

Examination Committee



COMMITTEES





Canteen & Food Committee



COMMITTEES

Alumni Committee



COMMITTEES





IEEE Chapter Committee



COMMITTEES

Anti-Ragging Committee



COMMITTEES





CSI Association



COMMITTEES

Women's Welfare - Sexual Harassment Eradication Committee



COMMITTEES





Technical Committee



COMMITTEES

Sports Committee



COMMITTEES





NSS & Red Cross Committee



COMMITTEES

Grievance Readdressal Committee



COMMITTEES





IEI Club



COMMITTEES

Toast Masters Club



COMMITTEES





Internal Complaint Committee



COMMITTEES

Internship & Industry Interaction



COMMITTEES





Science Club



COMMITTEES

Radio Club



COMMITTEES





Virtual Lab



COMMITTEES

IQAC Committee



COMMITTEES





ISTE Chapter



COMMITTEES

Aero Club



COMMITTEES





Website. ERP Committee



COMMITTEES

Library & Publishing Committee



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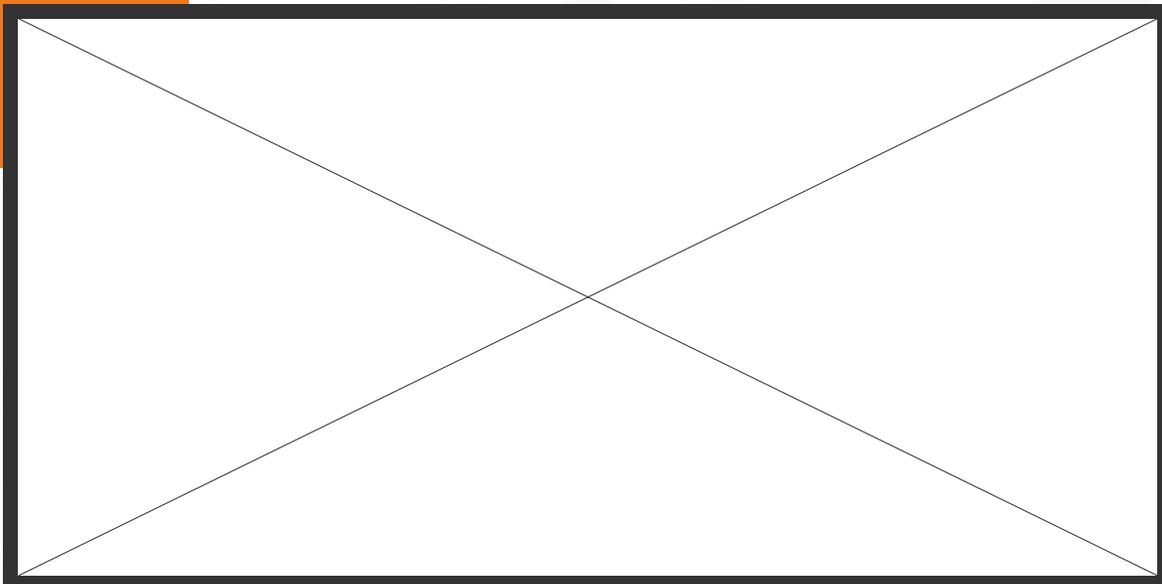


Literary Committee



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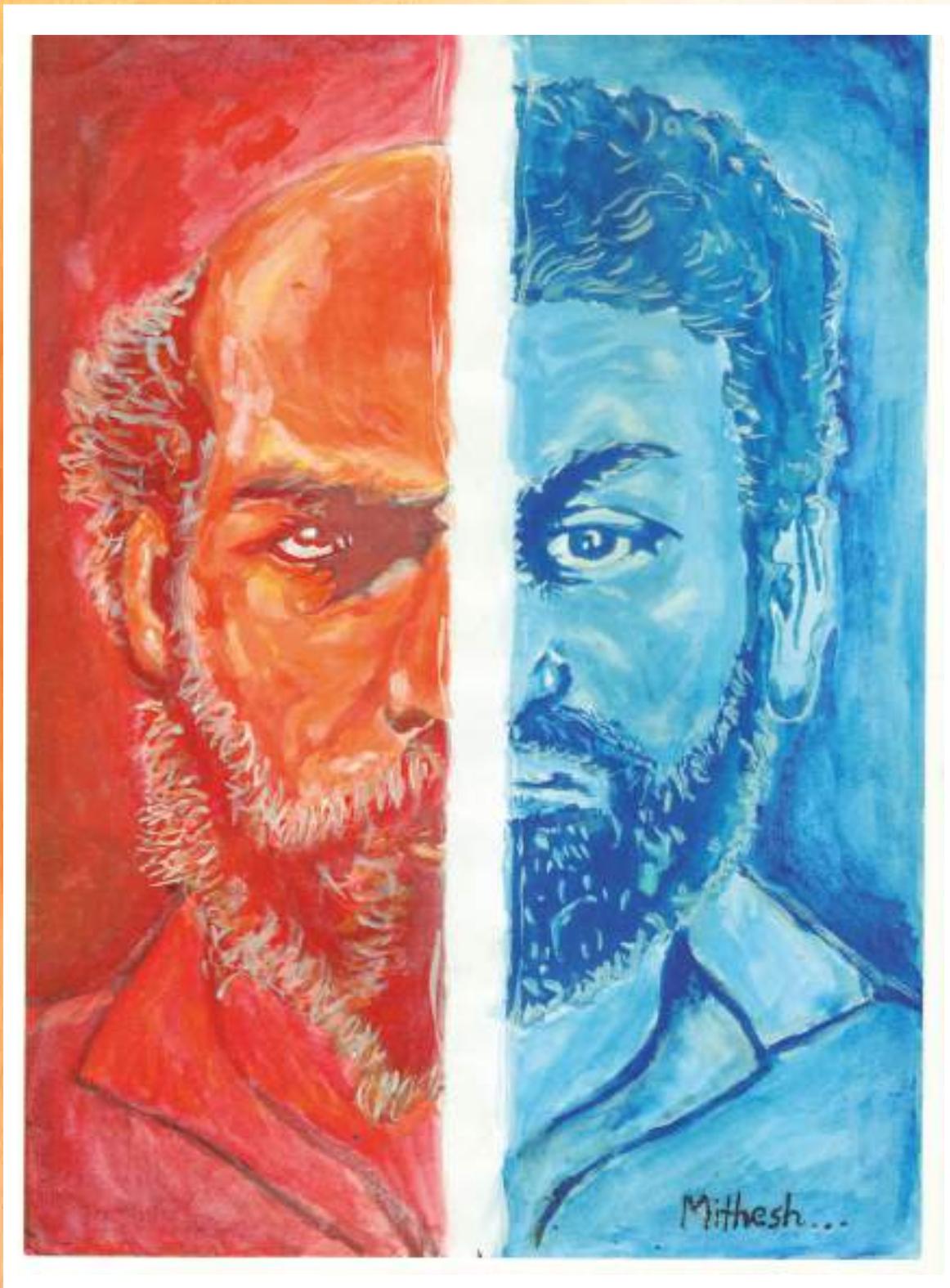
Committee



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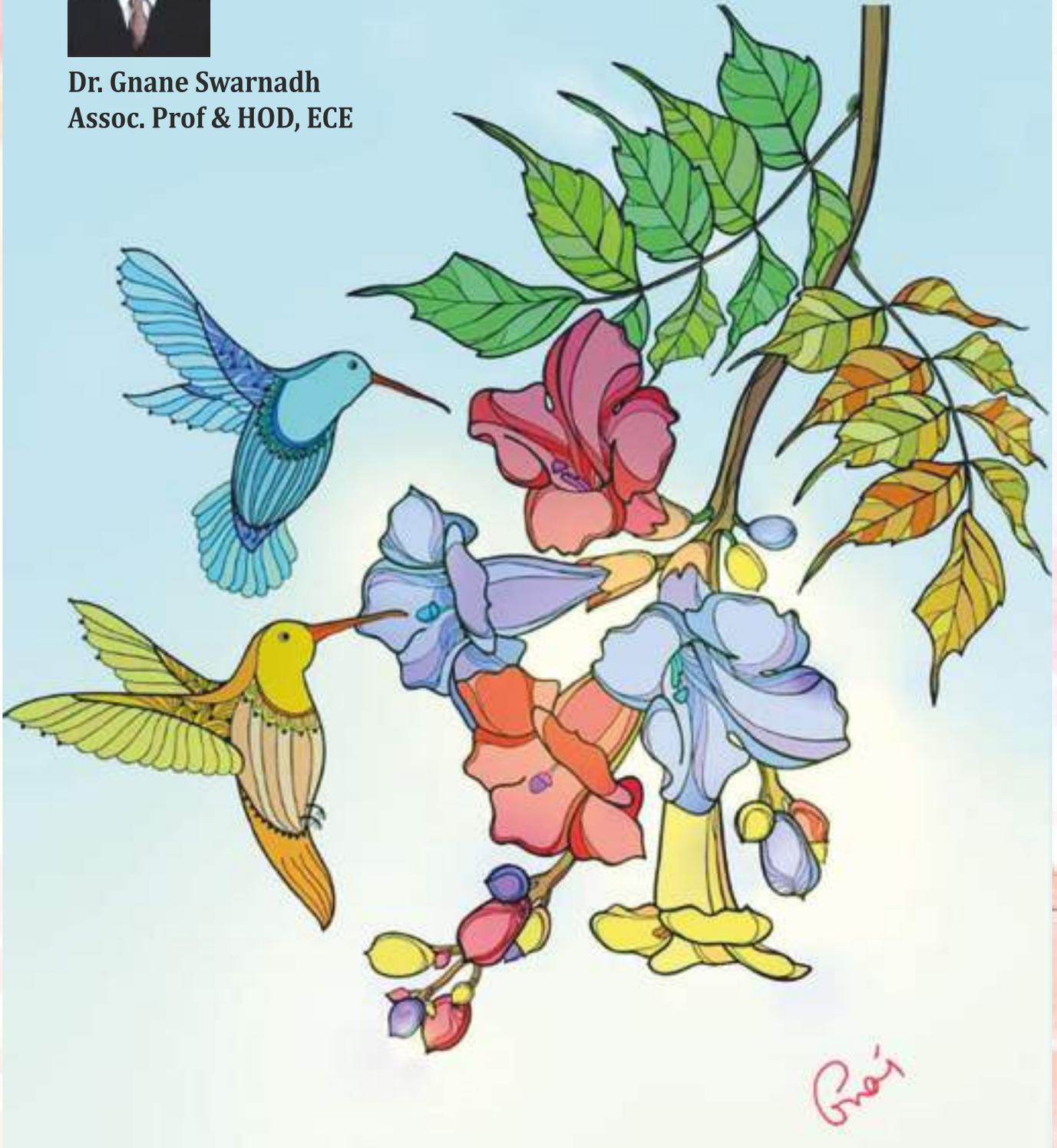


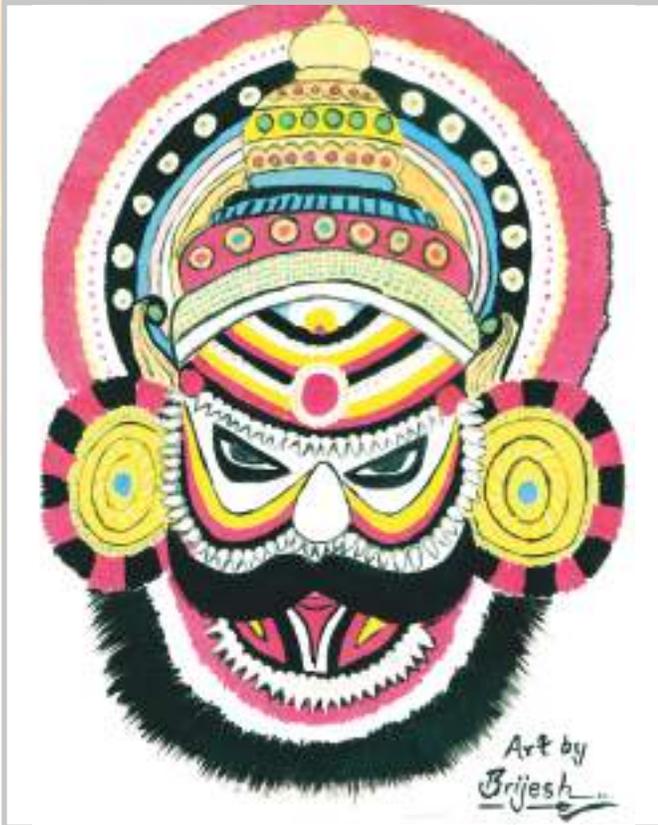


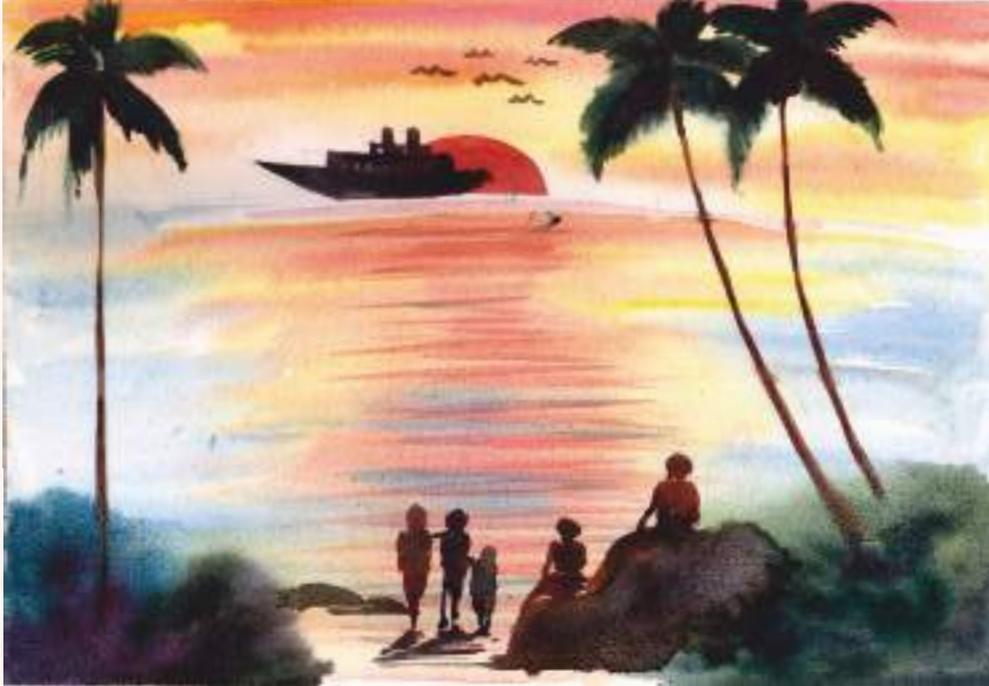


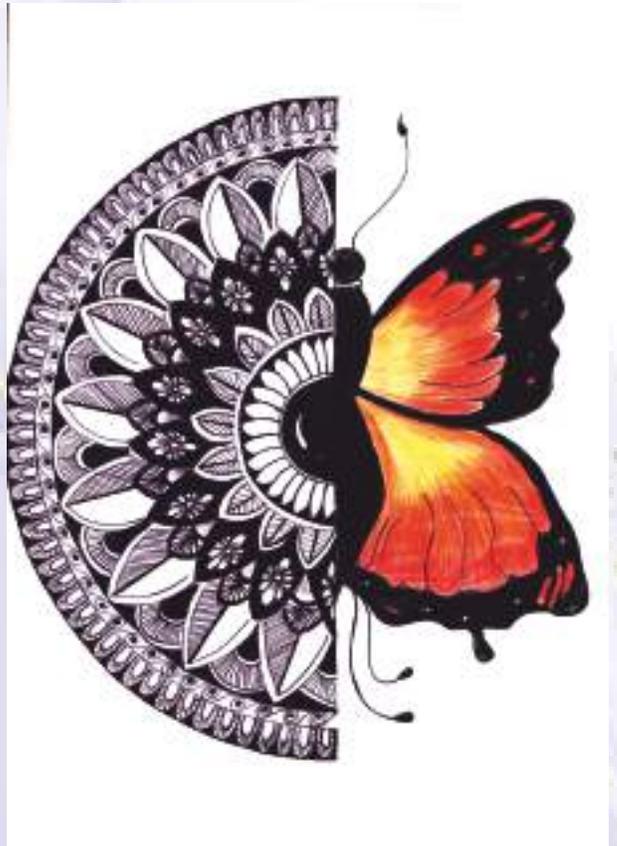
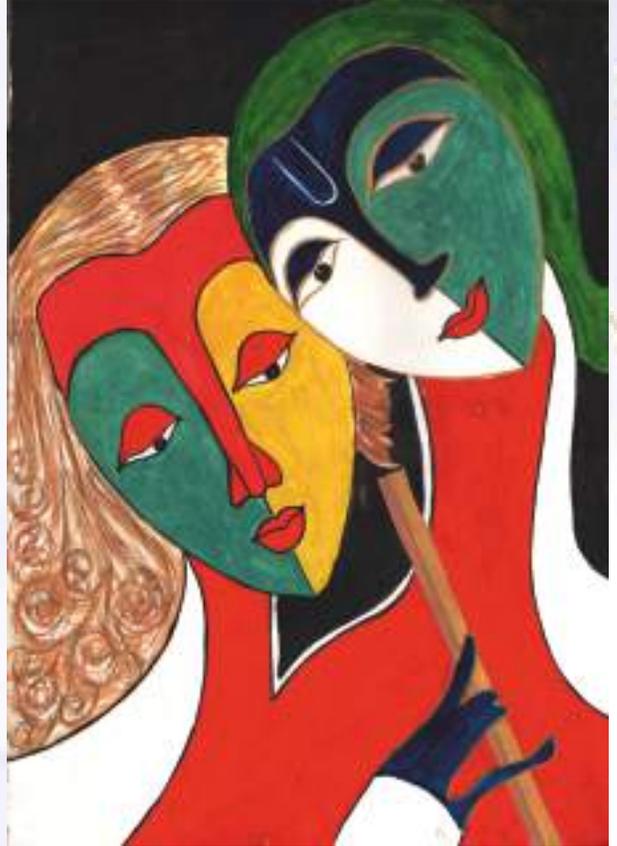
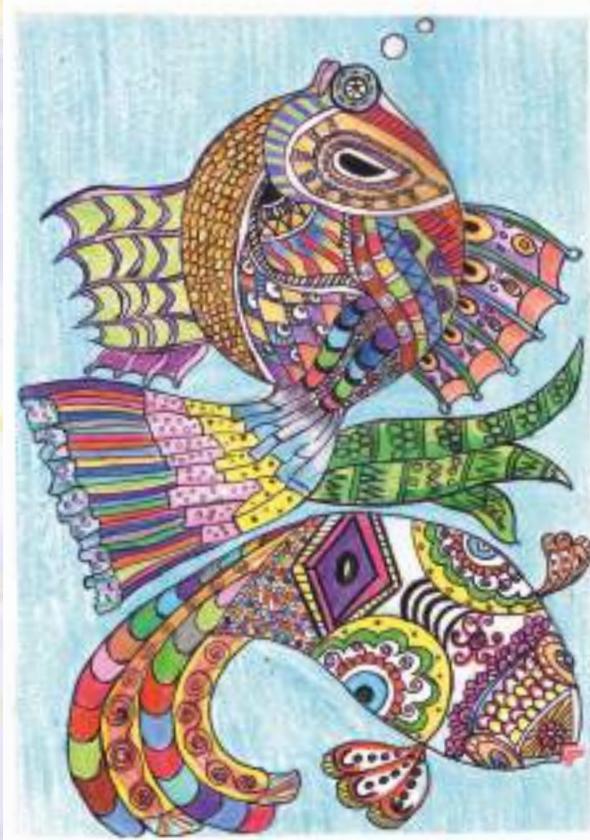


Dr. Gnane Swarnadh
Assoc. Prof & HOD, ECE











National Service Scheme (NSS)



The NSS unit was started in our institution in the year 2016. The objective of NSS is educational, which is attained through the service to the community. The activities and programmes of NSS Unit of AJIET aim the overall development of students. It reaches the spirit of voluntary work among the students and staff members through sustained community interaction. It brings academic institutions closer to society. The Motto of NSS “Not Me but you” reflects the essence of democratic living and upholds the need for self-less service. The NSS scheme aims to develop the student's personality in such a way so that the students emerge as responsible individuals encompassing the virtues of life. NSS volunteers are an asset to society. Students through the NSS activities are involved in actual work not only within the college campus, but also their services extend to neighbouring schools, colleges and public places. NSS aims to develop a sense of service, team spirit and dignity of labour. The various programmes conducted by the NSS unit have brought about a remarkable change in their outlook and attitude towards life and society.



BLOOD DONATION CAMP

NSS Unit & red Cross Unit of AJ Institute of Engineering & Technology organized the Blood Donation camp on 19th November 2022, Saturday at college campus. Dr Aravind, Blood Bank officer of A J Medical Sciences and Research Centre, Mangaluru inaugurated the camp by lighting the lamp. The Principal, Dr. Shantharama Rai C shared the occasion. During the camp more than 100 students and faculty members voluntarily came forward to donate blood with the intension of saving life and made the camp very meaningful. Dr. Sadananda Kumar, coordinator of NSS unit coordinated the program. Ms. Sujanya of II year ISE welcomed participants and guest. Dr Aravind and the assisting team of AJ Medical Sciences and Research Centre helped for the smooth conduction of the camp



Articles & Poems



Generative AI - on the cusp of revolutionizing the Construction industry

Generative AI could bring revolution in the ever-evolving landscape of civil engineering, as a groundbreaking technology in a new era of innovation and efficiency. This cutting-edge AI application has the potential to transform how architects and civil engineers design, plan, and maintain structures, shaping a brighter and more sustainable future for the built environment. Traditionally, architects and civil engineers have relied on their expertise and intuition to craft new building designs, a process driven by years of experience. But with the advent of Generative AI, a wave of creative possibilities emerges. By inputting crucial parameters such as site conditions, functional requirements, and aesthetic preferences, Generative AI algorithms can generate a plethora of design options, pushing the boundaries of imagination and innovation.

Structural analysis, a cornerstone of civil engineering, has found a formidable ally in Generative AI. This powerful technology adeptly navigates the complexities of analysing intricate structural systems. Armed with historical records and real-time sensor data, AI models delve deep into the intricacies of structures, unearthing potential weaknesses and vulnerabilities. Empowered with these insights, engineers can make informed decisions, embarking on reinforcement and improvements that yield structurally robust and cost-effective solutions.

The AI-driven frontier does not stop there. Construction planning and management, embraces a new era of efficiency with Generative AI. Armed with vast troves of past project data and insights into weather conditions, AI-powered planning optimizes resource allocation, minimizes downtime, and maximizes productivity. The result is projects that unfold like well-orchestrated symphonies, delivering timely and awe-inspiring masterpieces.

In the realm of infrastructure maintenance, Generative AI heralds a transformative shift. Tedious processes of monitoring building health are now streamlined with continuous analysis of sensor data and visual inspections. Swift intervention on potential issues before they escalate minimizes costly repairs and elevates overall safety, ensuring structures stand strong for generations to come. AI generates eco-friendly designs that harmoniously integrate with the environment. Moreover, AI algorithms are on the forefront of suggesting materials and construction methods with reduced environmental impact, contributing to the collective global effort to build a greener and more sustainable future.

Yet, while the promises of Generative AI are undeniably exciting, it is crucial to emphasize that it complements rather than replaces human expertise. Civil engineers remain the architects of ingenuity, ensuring projects align with safety standards and community needs. The union of human intellect and the potential of Generative AI bodes well for the civil engineering industry. Together, they form an unstoppable force, paving the way towards unparalleled innovation, sustainable development, and a world where structures become not just monuments of engineering but the guardians of a brighter tomorrow.



Dr. Suman Kundapura
Assoc. Prof. & HOD,
Dept. of Civil Engineering

Positive Approach

Teary eyes and face with frown,
I was sitting alone at the beach.
Looking at the sand light brown,
Thinking about my life and breach.

Looking at a boy running around,
Playing with his dog I found.
Sitting beside me h said,
Your face so sad what made?
Stupid situations of my life,
Feels like killing them with a knife.

He said look around for a while,
There is so much for you to smile.
Look at the colourful balloon,
They teach us something true.

They say not everyday is a bright boon,
Grey days will one day get a sue.
Wares tell you to merer stop,
Life is life a beautiful broach.
One day you will reach the top,
Just wear it with positive approach.

Navya N.
1st Year - CSE

“दिल की गहराइयों में तेरी यादें”

दर्द भरी रातों में, चाँद की तरह रोशनी तू,
मेरेदि ल की गहराइयों में, तेरी यादें छुपी हैं।
तेरी आँखों की गहराइयों में, दर्द की कहानी है,
प्यार और अलगाव की कवि ता, है ये जि ंदगानी है।
जब सेमि ला हैतू, दि ल की घड़कनों में तू ही बसा है,
मोहब्बत की राहों में, खुदा की तरह तू आया है।
तेरे बि ना जीनेकी, ये जि ंदगी सुनी सी लगे,
बेवफ़ाई के गमों में, खुद को हम खो बैठे हैं।
मोहब्बत की बातों में, है एक अद्भुत सदा,
तू ही मेरी खुशियों की जड़, तू ही मेरी दुआ।
चाहत का इशारा कुछ इस तरह से दि ल से ही,
तू मेरी घड़कनों की तरह, हमेशा पास हो।
खोया हुआ प्यार, अब भी यादों में बसा है,
तू मेरी रूह का हि स्सा, ये दि ल फि र से जलता है।
दि ल की गहराइयों से तू, नि कलता है गीत,
प्यार की दास्तानों में, तेरा नाम छुपा है।
तेरे प्यार में खोकर, जीने का मजा आता है,
दर्द और खुशी, एक साथ, मेरे दि ल में समाता है।
तेरे प्यार का आलम, दि ल में बसा रहता है,
कभी हंसते हुए, कभी रोते हुए, सदा तेरा नाम आता है



Aman Hassan
1 yr cse



The Ripple Effect of Kindness: Spreading Positivity One Act at a Time

In a world that can often feel chaotic and overwhelming, the power of kindness remains a beacon of hope. Small acts of kindness have the remarkable ability to create a ripple effect, positively impacting not only the recipient but also the giver and those who witness the gesture.

Kindness can take many forms – from a sincere compliment to a helping hand, from a smile to a thoughtful note. These simple acts have the potential to brighten someone's day, uplift their spirits, and remind them that they are valued.

The beauty of kindness lies in its ability to inspire. When we witness acts of kindness, we're more likely to be motivated to pay it forward ourselves. This chain reaction can spread positivity through communities and even across the globe, reminding us of our shared humanity.

Practising kindness isn't just beneficial for others; it also has profound effects on our own well-being. Engaging in acts of kindness releases endorphins, which are known as the "feel-good" hormones. This can lead to an increased sense of happiness and overall life satisfaction.

Kindness can also improve our relationships. When we treat others with kindness and empathy, we create an environment of trust and mutual respect. This foundation can lead to stronger connections and healthier interactions.

In a world where negativity can be loud, choosing kindness is a powerful way to counteract negativity and promote harmony. By consciously incorporating kindness into our daily lives, we contribute to making the world a better place, one small gesture at a time. So, let's embrace the ripple effect of kindness and play our part in spreading positivity and compassion to those around us.



Sudheeksha K Shetty
4th semester ISE

'Role of a Software Engineering a Digital World'

Software engineers are professionals who design, develop, test, and maintain software applications and systems. They use their programming skills and technical knowledge to create software that meets specific user needs or solves particular problems. These engineers work across various industries, from tech giants to start-ups, and play a crucial role in shaping the digital landscape. They collaborate with other team members, such as designers and product managers, to turn ideas into functional software products. Constantly adapting to new technologies and programming languages, software engineers are at the forefront of innovation in the digital age.

Software engineers are individuals who possess a deep understanding of computer science and programming concepts. They have the ability to write code in various programming languages such as Python, Java, C++, and more. Their responsibilities encompass the entire software development life cycle:

1. **Requirements Analysis:** Software engineers work closely with stakeholders to understand their needs and requirements. This involves gathering information about the features, functionality, and overall goals of the software project.
2. **Design:** Once requirements are clear, engineers create the architectural and technical design for the software. This includes deciding on the structure of the code, selecting appropriate algorithms and data structures, and designing user interfaces if applicable.
3. **Coding:** Software engineers write code based on the design specifications. They follow coding best practices and ensure that the code is efficient, maintainable, and adheres to industry standards.
4. **Testing:** After coding, engineers perform thorough testing to identify and fix bugs or errors in the software. They use various testing methods, such as unit testing, integration testing, and user acceptance testing, to ensure the software functions as intended.
5. **Debugging and Optimization:** Inevitably, issues arise during the testing phase. Engineers diagnose and fix these problems through debugging, ensuring that the software runs smoothly and efficiently.
6. **Documentation:** Software engineers create documentation that explains how the software works, how to use it, how to maintain it. This documentation is essential for other developers, users, and future updates.
7. **Collaboration:** Software engineers often work as part of a larger development team, collaborating with other professionals like product managers, designers, and quality assurance testers. Effective communication and teamwork are crucial for successful software development.
8. **Continuous Learning:** The field of software engineering is constantly evolving, with new programming languages, frameworks, and tools emerging regularly. Software engineers need to stay updated with the latest trends and technologies to remain effective in their roles.
9. **Specializations:** Within software engineering, there are various specializations, including front-end development, back-end development, mobile app development, Develops, machine learning, and more. Engineers may choose to specialize in a specific area based on their interests and expertise.

Overall, software engineers play a pivotal role in shaping the digital world, from creating mobile apps and web platforms to developing complex software systems that power critical industries. Their ability to combine technical expertise with problem-solving skills makes them essential contributors to modern technology.

'Development of Disease Equivalent Hardware'

In today's world, there is a rapid change in technology as well as disease. New drugs are being developed to cure the new borne disease. The drug goes on a lot of trails, first on animals and then on humans before getting food and drug administration approval. At the same time a lot of money is also invested in development of the drug. At the end of the test if the drug fails on humans, then the money and time spent on development of the drug goes waste.

Disease based mathematical models have been developed to study the dynamics and control strategy of the disease. Moreover, these mathematical models leads to various beneficial results, which includes the extent of an epidemic and its seriousness. A disease based equivalent hardware can be developed using these mathematical models. By using this hardware the medical/ pharma people can learn the behavior of the drug on a particular disease. Further, the results of the hardware can help to develop an effective drug for the disease. A hardware is developed using TMS320C6746 for studying the relationship between insulin and glucose for diabetes mellitus.

Insulin, a pancreatic hormone, regulates the disposition of glucose in liver, muscle, and fat. Importantly, glucose causes insulin to be released. There are other hormones involved in glucose regulation, but for the sake of simplicity, we will focus on glucose and insulin. The basic scheme below depicts (Figure 1) the interaction between insulin and glucose, in which glucose encourages its own insulin-dependent disposal. Insulin is produced by pancreatic islet cells in response to glucose. If pancreatic development becomes inadequate, insulin must be administered externally. The mathematical model that represents the relationship between glucose and insulin is given as

$$\frac{dG}{dt} = S_G \cdot [g_b - g(t)] - x(t) \cdot g(t) + \frac{r_{in}(t)}{V}; g(0) = g_b$$

$$\frac{dx}{dt} = P_2 \cdot \{S_I \cdot [i(t) - i_b] - x(t)\}; x(0) = 0$$

Where, t=time (min), g_b = Glucose concentration at baseline, 125 (mg/dL), $g(t)$ = Glucose concentration at time t(mg/dL), $i(t)$ = insulin concentration at time t (μ U/ml), i_b = insulin concentration at baseline, 8 (μ U/ml), $x(t)$ =insulin action on glucose disposal (1/min), $r_{in}(t)$ =input rate of external glucose (mg/min), V = Distribution volume of glucose,60 (dL), S_G = Glucose effectiveness, 0.03 (1/min), S_I = Insulin Sensitivity, 0.0006 (mL/(μ)), P_2 = Rate constant for change in insulin action, 0.04 (1/min).

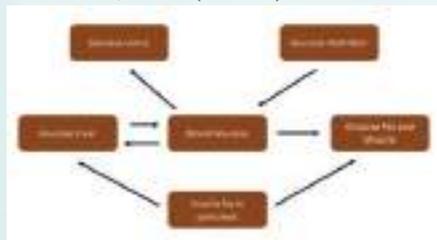


Figure 1: Basic relationship between insulin and glucose

Glucose efficacy (S_G) is the glucose capacity to promote its own disposal. This model has been designed to determine the S_G , p_2 , and S_I parameters from experimental data in healthy volunteers and patients. As a forcing feature, measured insulin concentrations were interpolated linearly. The MATLAB code for the above mathematical model is written and it is converted into C code and tested in TMS320C6746 kit. The glucose levels in the body, and disposal of glucose level by insulin and external insulin administration can be clearly studied from the Figure 2. Moreover, the work can be extended by considering more parameters in the mathematical model to get accurate results. Further, this scheme can be applied to other diseases where one can find the reaction of medicine on the specific disease.

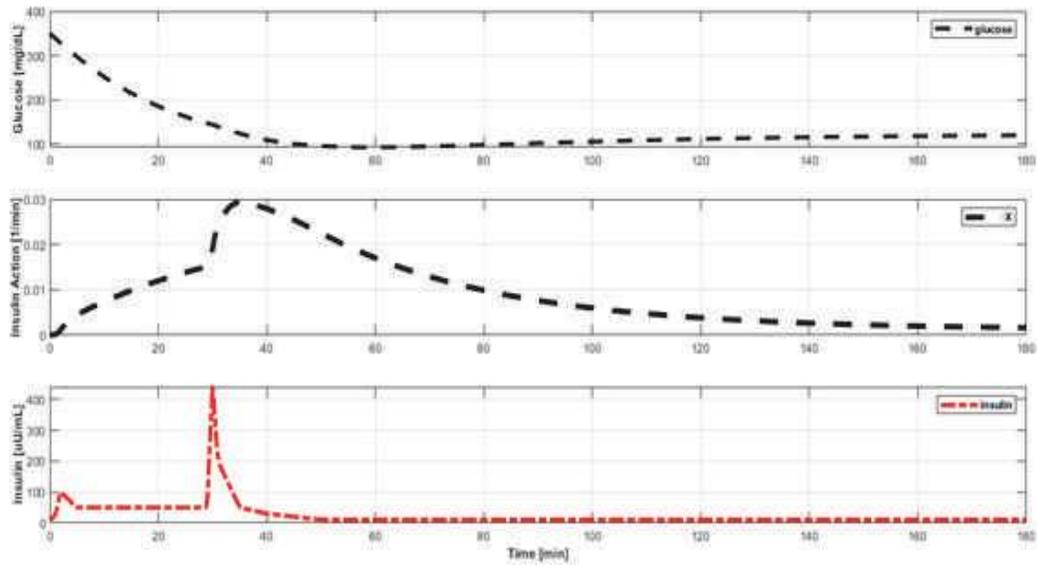


Fig 2: (a) Simulation of Glucose level, (b) Insulin action eliminating glucose, (c) Insulin infused externally



Dr. Gnane Swarnadh Satapathi
Associate Professor,
Dept. of Electronics & Engineering

'The Foundation of Character- How Respect and Manners Shape Human Lives'

Respect and manners are two essential threads that weave together in the complicated fabric of human existence to produce a life of integrity, empathy, and harmony. The basic basis upon which people create their character, relationships, and interactions with the world around them is formed by these seemingly straightforward yet highly influential beliefs. In this post, we'll look at how respect and good manners work together to make people's lives better and more fulfilling.

Respect: Taking Care of the Relationships' Foundation

The basis of all interpersonal relationships is respect. It represents the acceptance of each person's inherent value, regardless of differences in background, beliefs, or opinions. Respect changes one's perspective in a way that encourages empathy and open-mindedness. As a result, a climate of mutual respect and cooperation is promoted, and disagreements are settled via discussion rather than hostility. Respect makes ensuring that people respect one other's feelings, beliefs, and limits in personal interactions. It fosters equality, allowing relationships to thrive with mutual support and common goals. Respect also extends to the larger community, supporting inclusion and creating social cohesiveness.

Manners: The Art of Graceful Interaction

In daily life, manners—often referred to as social lubricants—are the outward signs of respect. They cover a wide range of actions that demonstrate regard and thoughtfulness towards others. Saying "please" and "thank you," holding doors open, and grinning sincere create a positive and welcoming environment. By using good manners, people may indicate that they respect society standards and value other people's contributions. Additionally, manners help people communicate effectively. Communication that is courteous and attentive fosters a climate in which conflicts are addressed constructively, misunderstandings are reduced, and discourse flows easily. Thus, good manners foster productive and meaningful connections in addition to courteous exchanges.

Building Character and Integrity:

Respect and good manners work synergistically to strengthen a person's integrity and character. They influence a person's decision-making, problem-solving, and worldview. Respecting people and acting politely become ingrained habits that shape a person's personality and have an impact on their reputation and how others view them.

These principles also foster a feeling of self-worth and self-control. People develop a positive

sense of themselves and a solid moral compass when they continuously show respect for others and act politely. As a result, one has a greater sense of self-respect and the capacity to act morally even in trying situations.

Conclusion:

At a broader level, a society that upholds the principles of respect and manners tends to be more cohesive and harmonious. When individuals collectively value and practice these virtues, it creates an environment where diversity is celebrated, and conflicts are resolved amicably. Such a society is marked by a sense of shared responsibility, where individuals take pride in contributing positively to the collective well-being.

In the grand tapestry of human life, the threads of respect and manners are interwoven, creating a fabric of compassion, understanding, and civility. These virtues not only shape individual character but also influence the very fabric of society. When respect and manners become intrinsic aspects of daily life, they pave the way for meaningful relationships, effective communication, and a harmonious coexistence. As we navigate the complexities of our world, let us recognize the profound impact that these values have on our lives and commit to nurturing them for the betterment of ourselves and the societies we inhabit.



Mr. Chanchal Antony
Associate Professor

Title: "Engineering the Future: Navigating Innovation in the Digital Age"

In today's rapidly evolving world, where technology is the driving force behind progress, engineers stand at the forefront of innovation. As we step into the digital age, the role of engineering is more crucial than ever. This article delves into the dynamic landscape of engineering, exploring how students and professionals are shaping the future through their ingenuity, creativity, and determination.

Introduction:

The realm of engineering is undergoing a transformative shift, as emerging technologies such as artificial intelligence, block chain, and renewable energy takes center stage. This article aims to highlight the diverse avenues of innovation that engineering students and faculties are embracing, ultimately steering our world towards a brighter, sustainable future.

- * **Sustainable Solutions:** Engineers are not only problem solvers but also champions of sustainability. From designing eco-friendly buildings to developing clean energy sources, the engineering community is actively contributing to combating climate change.
- * **Robotics and Automation:** The rise of robotics and automation has sparked a new wave of possibilities. Engineers are crafting intelligent machines that can enhance productivity across various industries, from manufacturing to healthcare.
- * **Innovations in Healthcare:** Medical engineering is revolutionizing patient care. Engineers are creating advanced prosthetics, medical imaging technologies, and even contributing to the development of cutting-edge treatments like gene therapies.
- * **Space Exploration:** Engineering has propelled humanity beyond our planet. With ambitious missions to Mars and beyond, engineers are creating spacecraft, rovers, and technologies that push the boundaries of space exploration.
- * **Cyber security:** In an increasingly digital world, cyber security is of paramount importance. Engineers are developing robust systems to protect data and reduce cyber threats, ensuring a safe digital environment.
- * **Empowering Entrepreneurship:** Engineering students are not just learning technical skills; they're also acquiring an entrepreneurial mindset. Many engineering graduates are leveraging their knowledge to launch startups that disrupt industries and drive innovation.
- * **Global Collaboration:** The engineering community is becoming more interconnected than ever. Collaborative projects that span borders are fostering diverse perspectives and accelerating progress.

Conclusion:

Engineering is not merely about equations and blueprints; it's a catalyst for change. In our engineering college, we are being prepared to embark on a journey of innovation that extends beyond classrooms and laboratories. As we navigate this exciting era, let us remember that every design, every algorithm, and every innovation has the potential to reshape the world for the better.

Aman Hassan
1 yr cse



The Ripple Effect of Kindness : Spreading Positivity One Act at a Time

In a world that can often feel chaotic and overwhelming, the power of kindness remains a beacon of hope. Small acts of kindness have the remarkable ability to create a ripple effect, positively impacting not only the recipient but also the giver and those who witness the gesture.

Kindness can take many forms – from a sincere compliment to a helping hand, from a smile to a thoughtful note. These simple acts have the potential to brighten someone's day, uplift their spirits, and remind them that they are valued.

The beauty of kindness lies in its ability to inspire. When we witness acts of kindness, we're more likely to be motivated to pay it forward ourselves. This chain reaction can spread positivity through communities and even across the globe, reminding us of our shared humanity.

Practicing kindness isn't just beneficial for others; it also has profound effects on our own well-being. Engaging in acts of kindness releases endorphins, which are known as the "feel-good" hormones. This can lead to an increased sense of happiness and overall life satisfaction.

Kindness can also improve our relationships. When we treat others with kindness and empathy, we create an environment of trust and mutual respect. This foundation can lead to stronger connections and healthier interactions.

In a world where negativity can be loud, choosing kindness is a powerful way to counteract negativity and promote harmony. By consciously incorporating kindness into our daily lives, we contribute to making the world a better place, one small gesture at a time. So, let's embrace the ripple effect of kindness and play our part in spreading positivity and compassion to those around us.



Sudheeksha K Shetty
4th semester ISE

‘The Cold Within’

“The beauty of the inner voice (God) is discarded”. At the end we find ourselves like a lifeless statue of an alabaster as often over conscience tends to tilt towards the hallucinate fiend. It is due to the decaying dirt present within ourselves that will often fine ourselves dead. Why should a man sleep when he wakes and lead a life like the loaf foam present on stagnant water and let the fiend enchant?

This can be imputed by the following story. It is about a group of young man on their journey through the Himalayas and aimed to reach the highest peak. They were all young passionate youths. Out of them, one stood separate with a higher grade of passion in him to reach the peak. It had been 16 hours since their journey started as the end prevailed. They decided to rest there for the night. They put their tents and lit a log of wood and enjoyed the camp fire.

But one among them, 'Ranveer' was extensively passionate (as mentioned earlier) and thus he decided to continue his journey to the peak and separate himself from the group. In such darkness and devastated weather, Ranveer with all his interest took his heavy steps. No sooner had he walked for a duration of 15 minutes than a great cliff came in front of him. Right next to the huge cliff, he also found an ocean deep steep. It was obligatory for Ranveer to pass the cliff to reach his destiny. Nothing seemed to stop him. He removed a huge rope tied with large hooks and through it as high as he could and started climbing up. He had not crossed half his way when the hook gave up its hold and Ranveer started approaching his death i.e., he started falling down the steep. When suddenly his hook got onto the hold of another rock. Ranveer thanked God but on the other hand found himself hanging around nowhere. The ground was not visible. He decided to give up on his life when suddenly he heard a voice, the voice of the ultimate power, ultimate truth, the inner voice, it was the Almighty saying “Let go, and you will be saved”. With a variety of feelings Ranveer was going through, he ultimately decided to listen to his fiend and did not let go. He heard the same glorious voice again “Let go and you will be saved”, but he was firm with his decision and did not let go.

The next morning, Ranveer's body was found hanging dead just a few minutes above the ground. His body was red and blue due to cold and eyes still wide open. The native villages surrounded his body and talked of pity. There is light in every darkness they say. Ranveer would have surely been saved. We human beings only care of what you feel is right. Here the man chooses the fiend upon the Glorious Lord.

He died! Not due to cold outside, but due to the cold within

What would we have done if we were Ranveer?

Prajna Shivani
4th Semester ISE



'Impact of Internet'

The progressive and transformation of technology through creativity, invention and innovation has made the entire world easy to access in any point one wishes to access from wherever he is. Thus, the Internet has made the world easy meeting point both in business, education, civilization and development.

Ways in Which Youths Use the Internet Today

The Internet has enabled the youths to be able to study online especially reading and learning relevant topics that are related to their courses and topics that affect them in really life in one way or another.

Social media in this modern society has become a vibrant and active field that is occupied with youths. Youths use the Internet in social media interactions like Facebook, Instagram, Twitter and WhatsApp in uploading photos and trending with the current issues within a particular context, such as the social issues, political issues and economic issues that affect them. Social media interactions also have enabled and created awareness among the youths on what is happening and where it's happening Moreover, the Internet has enabled the youths to research on essential materials on issues that affect them especially in their academics, where they are able to research on what has been there and come up with new development and theories that are essential in solving human life problems.

Conclusion

It is evident that youths can use the Internet for their personal gain and build their own society in different ways and in the same way they can use Internet to destroy, disrupts, destruct and degrade the moral existence and values of the society.



Sharanya Rai B
4th semester ISE



'Daivaradhane in Tulunadu'

Tulunadu, an area in the south western part of India, is not only famous for its unspoiled coastal beauty and rich cultural history but also for its deeply rooted practices. Among these practices, "Daivaradhane" holds a significant place, serving as a blend of loving loyalty, tradition, and community. This article digs into the very interesting world of Daivaradhane in Tulunadu, shedding light on its origins, importance, and the effect it has on the local population.

The Essence of Daivaradhane: Daivaradhane, which translates to "Divine Worship," is a traditional ritualistic practice observed with great emotions in Tulunadu. Rooted in ancient beliefs, this practice involves the worship of village deities, guardian spirits, and ancestors. It is a ritualistic expression of gratitude, seeking blessings, and protection from the divine forces believed to govern various aspects of life. Through Daivaradhane, the Tulunadu community establishes an extreme connection with the world, helping the development of a sense of togetherness and loving loyalty.

Origins and Historical Significance: The origins of Daivaradhane can be traced back centuries, deeply twisted together with the fabric of Tulunadu. This practice came out as a means to honour the gods and goddesses that were believed as the protectors of the land and its people. These gods were believed to secure richness, life-creating ability, and safeguard the community from dangerous forces. Over time, Daivaradhane became an important part of special celebrations and daily life, becoming good evidence of the area's rich history.

Celebrations and Festivals: Special celebrations in Tulunadu are centred around Daivaradhane, turning these occasions into full of life and colourful celebrations. One such well-known celebration is the once-a-year "Bhoota Kola," where performers use costumes and masks to channel the spirits of gods. This is a fascinating sight to see the energetic interaction between tradition, faith, and art.

Preservation and evolution: In the face of modernization and changes in the society, Daivaradhane has managed to adapt and survive. While the core principles remain intact, certain aspects have evolved. People are working to record and preserve complex rituals, chants and practices to the younger generation, ensuring the continuity of this sacred tradition.

Conclusion: Daivaradhane highlights the cultural and spiritual richness of Tulunadu by weaving together ancient beliefs, tribal customs, and Vedic traditions into a beautiful fabric of worship and community celebration. In an evolving world, Daivaradhane continues to play a vital role in safeguarding Tulunadu's cultural heritage and providing a spiritual anchor for its people.

Pavan Kumar
4th Semester ISE



MODERN AUTOMATION

Automation is changing the way we live and work. From self-driving cars to smart homes, automation is making our lives easier and more efficient. However, it's also raising concerns about privacy, job loss, and the impact on society. On the one hand, automation has the potential to revolutionize many industries. For example, self-driving cars could reduce traffic accidents and make transportation more efficient. Smart homes could reduce energy consumption and make living more comfortable. Automated factories could increase productivity and reduce costs. In these ways, automation could create new opportunities and improve our quality of life. On the other hand, automation could also lead to job loss and inequality. As machines become more capable, many jobs may become obsolete. This could result in unemployment and economic hardship for many people. Additionally, automation could exacerbate existing inequalities, as those who are able to adapt to new technologies may benefit while others are left behind. Another concern is the impact of automation on privacy and security. As more devices become connected to the internet, there is a risk that personal information could be compromised. Additionally, automated systems could be vulnerable to hacking and other forms of cybercrime. Despite these concerns, it's clear that automation is here to stay. As technology continues to advance, we will need to find ways to ensure that the benefits of automation are shared by all. This may require new policies and regulations, as well as new approaches to education and training. In conclusion, automation has the potential to transform our lives in many ways. However, we must be mindful of the potential drawbacks and work to ensure that the benefits are shared by all. By doing so, we can create a future that is both efficient and equitable. Modern automation presents both opportunities and challenges from a human perspective. While it offers the potential for increased productivity, efficiency, and innovation, it also raises concerns about job displacement and the future of work.



Shruti U
1st Year - ISE

India is on the Moon

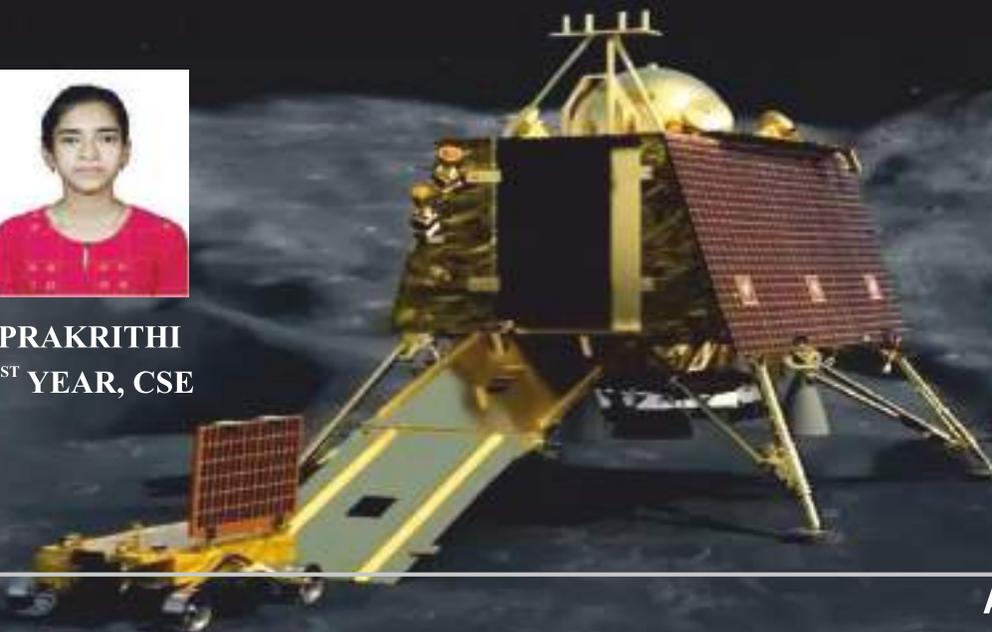
23 August 2023, a day to remember. One more page added to the history by India. Indian space research organization's third Indian lunar exploration 'Chandrayaan-3' a successful mission. India became the first nation in the world to reach the south pole of the moon's surface.

Chandryaan-3 is the third lunar exploration mission under the ISRO chandrayaan programme. After chandrayaan-1, which was the first mission in 2008 and chandrayaan-2 in 2019, Chandrayaan-3 2023 is a successful mission. The main aim of chandrayaan-3 was to demonstrate a safe and soft landing on the lunar surface, to demonstrate rover roving on the moon and conduct in-situ scientific experiments. Chandrayaan 3 was launched on 14 July 2023 at 2:35 pm, which consists of a Lander named 'Vikram' and rover named 'Pragyan'.The lander and rover was carried by a propulsion module .The rocket named LVM3M4 carried the module from SathishDhawan space centre. The total mass during the launch was 3900Kg out of which lander Vikram was 2148Kg and rover Pragyan was 26Kg in mass. The space craft entered the lunar orbit on 5 August 2023 and the lander touched down in the lunar South Pole region on23 August 2023 at 6:02 pm making Indian the fourth country to successfully land on the moon.

Through chandrayaan 3 India showcased its technological power, scientific capabilities, and aim to explore space and have strengthened and motivated the young generations to study science and technology. It was a proud moment for all the Indians. ISRO made us to feel proud .Finally, the Indian flag is flying high on the moon and made a remarkable mark on the history.



PRAKRITHI
1ST YEAR, CSE



‘Cultural Similarities among Asian Countries’

Have you ever noticed the remarkable similarities among Asian cultures, highlighting how we share common threads that unite us despite being geographically distant? Let's immerse ourselves in the rich and diverse cultures of Asians, exploring the fascinating traditions, customs, art forms, and philosophies that shape the tapestry of our continent.

Asia is a vast and diverse continent, home to numerous countries, each with its own unique cultural heritage. Despite our distinct identities, Asian countries also exhibit remarkable cultural similarities that reflect shared traditions, values, and historical influences. From family to society, we Asians emphasize the importance of unity, harmony, and collective well-being.

Let's explore some of the key cultural threads that connect Asian countries:

1. Respect for Elders and Family Values: Across many Asian countries, there is a strong emphasis on respecting elders and maintaining close-knit family ties. The concept of filial piety, where children are expected to care for and honour their parents, is deeply rooted in Asian cultures. This value can be seen in countries such as China, Japan, Korea, Vietnam, and India.

2. Traditional Medicine and Healing Practices: Several Asian countries share traditional medicine systems that have been developed over centuries. These systems, such as Traditional Chinese Medicine, Ayurveda, and Kampo in Japan, emphasize holistic approaches to health and well-being, incorporating natural remedies, herbal treatments and massage.

3. Tea Culture: Tea holds immense cultural significance in many Asian countries. The art of tea preparation, serving, and consumption has been elevated to an art form in countries like China, Japan, Korea, and India. Tea ceremonies and rituals symbolize hospitality, mindfulness, and the appreciation of nature's beauty.

4. Emphasis on Education: Asian cultures often place a high value on education, viewing it as a pathway to personal and societal success. The pursuit of academic achievement, respect for scholars, and the importance of discipline in learning are shared values across many Asian countries.

5. Martial Arts and Traditional Sports: Many Asian countries have rich traditions of martial arts and traditional sports. Practices such as kung fu, karate, judo, taekwondo, and muay Thai highlight the significance of discipline, physical fitness, and the cultivation of mental and physical strength.

Conclusion:

While Asia encompasses a vast array of cultures, languages, and histories, there are undeniable cultural similarities that bind the continent together. Shared values, religious influences, traditional practices, festivals, and a deep respect for family and heritage create a sense of unity and interconnectedness among Asian countries. Recognizing and appreciating these cultural threads allows us to celebrate the diversity and shared experiences that make Asia such a vibrant and fascinating part of the world.

Dhanya.N
First year - ISE



Semiconductor Chip Advancements: A Boundless Journey'

In the world of technology, semiconductor chips have long been the unsung heroes, silently powering the devices that have become an integral part of our lives. These tiny marvels of engineering have witnessed remarkable advancements over the years, leading to unprecedented growth in computational power and a vast scope of applications.

For decades, Moore's Law has served as the guiding principle for the semiconductor industry, predicting that the number of transistors on a chip would double approximately every two years. This relentless pace of miniaturization and increasing transistor density has resulted in exponential improvements in chip performance. However, as we approach physical limits and encounter challenges related to power consumption and heat dissipation, Moore's Law is evolving rather than coming to an end.

We are all well aware that the first computer, invented by Charles Babbage, consumed an entire room. It measured over 50 feet (15 meters) in length, weighed five tons, and consisted of approximately 750,000 separate parts, mostly mechanical. Its computational efficiency was not as fast as today's standards, but it was undeniably significant and served as a stepping stone in technological development, which has now culminated in handheld devices powered by nanoscale chips.

Today, standard transistors measure 10 nanometres in length, and with the latest research, top companies have produced 5 nm or 7 nm chips. Historically, at 20 nm and 16 nm chip sizes, issues related to unwanted resistance-capacitance delays arose due to copper interconnects becoming too compact with the transistors.

Electronic chips are widely used in all fields and have indeed become an integral part of our lives, starting from electric toothbrushes to bread toasters, washing machines, air conditioners, automobiles, and most importantly, cell phones and laptops. These tiny electronic chips have undergone an interesting journey, evolving from sand particles to possessing the ability to compute complex algorithms, store important data, and more. With the advent of the Internet of Things (IoT), there is a growing need for processing data closer to its source. Semiconductor chips optimized for edge computing are becoming increasingly important, enabling real-time data analysis, reducing latency, and enhancing the responsiveness of IoT devices.

In healthcare, semiconductor chips are transforming diagnostics, imaging, and drug development. Miniaturized and more powerful chips are enhancing the accuracy and speed of medical devices, paving the way for personalized medicine and improving healthcare outcomes. The scope of semiconductor chips continues to expand, impacting every aspect of our lives and driving innovation in countless industries. As we witness these amazing advancements, we can only imagine the limitless possibilities that lie ahead in the world of semiconductor technology.



Seema J. Rai
3rd Year - ECE



3rd Graduation Day

A J Institute of Engineering & Technology, Mangaluru organized the 3rd graduation day on 11th March 2023 for the 2018-19 academic batch students. It was held at AJIET Campus from 11.am to 1:00pm. The dignitaries of the ceremony were President of the institute Dr. A J Shetty, the chief guest Dr.S.Vidyashankar, Vice Chancellor, VTU, Belagavi, Vice president of the institute Mr. Prashanth Shetty, Principal, Dr. Shantharama Rai C, Dr. Antony P J, Vice principal and graduation day convener. Around 228 graduates with their parents attended the ceremony to celebrate their success. There was a special arrangement of live telecast of Graduation day ceremony.

The celebrations started with the academic procession along with the dignitaries. The program started with an invocation song by Vidushi Archana Priyadarshini. Asst Professor, ISE department, followed by lighting of the lamp by the dignitaries. Dr. Antony P J welcomed Chief guest and graduates. The principal, Dr Shantharama Rai C congratulated the graduates and briefed about the college progress. Vice president Mr.Prashanth Shetty declared the 3rd graduation ceremony open. Chief Guest, Dr.S.Vidyashankar addressed the students and advised them to take new challenges. Every head of the department called out the names of the graduates of their respective departments who were awarded with the degree certificates.

Graduates received their degree certificate and memento by the chief guest. Chief Guest was felicitated by dignitaries of the ceremony. President of the function Dr. A J Shetty in his address he pointed out that 'Learning is a Continuous Process by the hard work' and wished graduates for their better future. The Vote of thanks was given by the Dr. Sujaya C, Coordinator, Graduation day ceremony. Mr. Vinod D Souza and Mrs Sharanya P S hosted the programme. Graduation day was ended by National Anthem and Photo Session.





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