

INFOSPARK

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Departmental Newsletter

Department of Information Science and Engineering



A.J. Institute of Engineering & Technology

(A Unit of Laxmi Memorial Educational Trust ®)

(Approved by AICTE, New Delhi, Affiliated to Visvesaraya Technological University, Belagavi)

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PATRONS



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Principal



Dr. Nagesh H R
Vice Principal



Department of Information Science and Engineering

ABOUT THE DEPARTMENT

Department of Information Science and Engineering was established in the year 2016 with the establishment of AJIET, Mangaluru. The department is offering bachelor of engineering programme 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 greatest growing engine of change
- "TECHNOLOGY"**

DEPARTMENT VISION

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

DEPARTMENT MISSION

To impart theoretical and practical knowledge through the concepts and technologies in Information Science and Engineering.

To foster research, collaboration and higher education with premier institutions and industries.

Promote innovation and entrepreneurship to fulfill the needs of the society and

PROGRAM EDUCATION OUTCOMES

PEO1: Analyse, design and implement solutions to the real-world problems in the field of Information Science and Engineering with multidisciplinary setup.

PEO2: Keep abreast with the technology, innovation and pursue higher education with high standards of social and professional ethics

PEO3: Develop professional and entrepreneurship skills to work effectively as an individual and in a team to meet the ever-changing goals of the organization

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1: Design, implement and maintain the information systems that fulfill the current needs of the industry and society

PSO2: Apply computational theory, storage and networking concepts to solve the day to day problems of the world

PROGRAM OUTCOMES (PO's)

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

Environment sustainability: Understand the impact of the professional engineering solutions in the societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Lifelong learning: recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broader context of technological change.

HOD's Message



Department of Information Science and Engineering has made tremendous progress in all areas of academic, non-academic, placement. It has taken every step to empower the students with necessary knowledge, skill and the attitude. The associations, clubs and study groups have promoted the interest and engagement of students as well as faculties. Students have shown noticeable achievements in academics, co-curricular activities and extra-curricular activities.

The "InfoSpark", Department newsletter highlights the activities and achievements of the Department in the last academic year 2019-20. I am sure that readers will be delighted to know the achievements of the Department.

Congratulating the editorial team for their sincere efforts.

Editors Team



Chief Editor
Dr. Nagesh H R
Professor & Head

Editor
Mrs. Sharanya P S
Assistant Professor

Co Editor
Mrs. Akshatha
Instructor

Department Statistics



#Intake - 60



#Staff - 15



#Placement



#Events - 3

DEPARTMENT ACTIVITIES

**ALUMINI
MEET**



**FRESHER'S
DAY**



**Online
Classes**

**ONLINE
EARNING**





Learning Never Stops @ Department

Interactive Online Classes



Live Interactive Online Classes

Learning @ Department

For each semester live interactive classes are conducted for all the subjects by all the faculties by using Google Meet. Using these platforms effective classroom environment is built with class lecture and discussion session. Live interactions with the students are conducted during the class hours for better understanding of any of the subject topics.

For each of the subjects Google classroom is created and all the subject related course materials are shared to the students. Assignments, Class tests are conducted on regular basis for the active participation of students.

Online Internal Assessment is conducted using Google Meet with continuous monitoring of individual students by faculty. Supporting course materials of all subjects are given to the students for easy understanding of the subjects. Regular student performance and attendance is monitored.

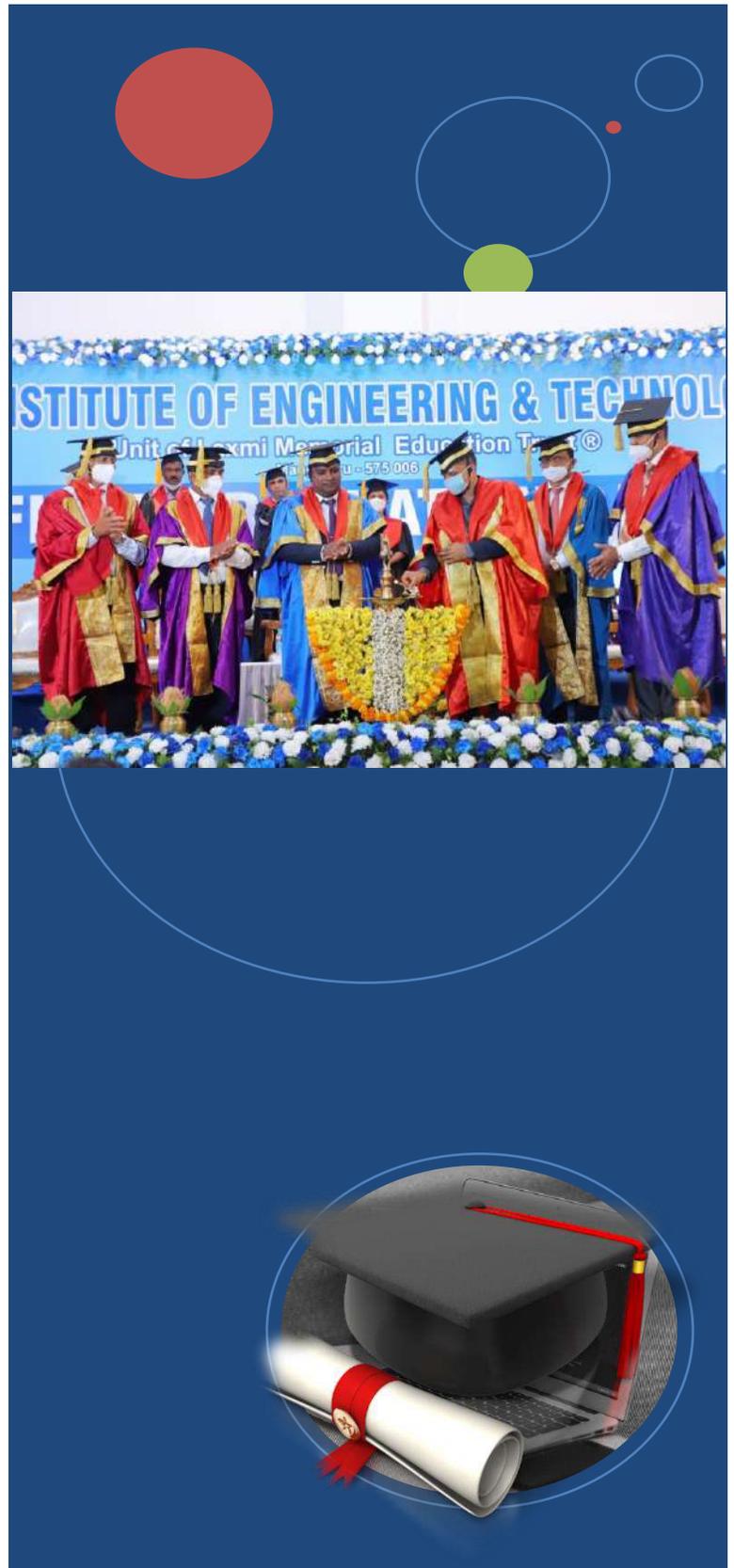
E-Learning with Digital Class



FIRST GRADUATION DAY

The first graduation day of A J Institute of Engineering & Technology was held on Friday February 19th 2021 in the seminar hall of the college. The ceremony witnessed the awarding of graduation certificates by the institution to the class of 2020 comprising of 115 undergraduates (BE). Mr. Vasudev Kamath, Vice President & Head – Infosys Ltd., DC Mangaluru, graced the occasion as chief guest and presented the degree certificates to the graduates.

Dr Nagesh H R, Vice principal of AJIET administered the graduation oath. Athish Rai, graduate from the department of Information and Science delivered the Valedictory addresses. Dr. Shantharama Rai in his presidential address, congratulated the first outgoing batch, cheered them and said they were the pride and joy of the college. The chief guest Mr. Vasudev Kamath released the college annual magazine 'Sparkle 2020'.



ALUMNI MEET – 2016-20 BATCH

The Alumni Meet of the first batch of students passed out from Department of Information Science and Engineering was held on 19th February 2021, at 2.30 pm. Mr John Prakash Veigas, class advisor for the alumni, in his address share his experience teaching the students and wishes them the best in future. Mrs Vineetha Pais, Asst Professor, Department of Information Science and Engineering, also expressed her views about the students and advised them to follow best principles in life.

Dr Nagesh HR, Vice Principal and Head of Department, Department of Information Science and Engineering, urged the alumni to contribute in enhancing Knowledge and skill domains of their junior students by conducting guest lectures, webinars, seminars. He also thanked the alumni for their active participation in the event. Mr Athish Rai and Mr Mrinal, alumni, expressed their views about the college and alumni meet. Mrs Shilpa Shetty A, Asst Professor, and alumni coordinator, Department of Information Science and Engineering proposed vote of thanks to all people involved in the successful conduct of the event.



FRESHERS DAY – FIRST YEAR

A J Institute of Engineering & Technology organized Fresher's day programme for all first year B.E. students on Marc 6th 2021. The celebration started at 10.00 A.M. at the Seminar Hall - 3 with a Prayer, lamp lightening by the Head of the Institute Dr. Shantharama Rai C and Heads of all departments. As an inaugural address Principal motivated the young minds the benefits of participating in the college activities. Followed by Vice Principal and First year HOD Dr. Nagesh H.R addressed the students. Students of different sections participated in 30 minutes variety Competition. The contest included various events such as singing, skit, dancing, talent display and mime show. All the events were artistically and beautifully presented in colours as well as style.

On the basis of student's performance best talent Ms Anwitha, Section D is awarded with prize. As a best Master of Ceremony male Mr. Dhanvith Section C and Master of Ceremony female Ms. Ramsha section C were selected. Among the five different sections participated, Section D students were the overall winners and Section B students were the Runners up of the event.



FACULTY ACHIEVEMENTS

FACULTY PUBLICATIONS



Faculty Name

Publication Details

Dr Nagesh H R

- ✚ “WBAN Implementation in a Parallel Processing Environment for E-Healthcare Applications”, International Journal of Future Generation Communication and Networking, Vol. 13, No. 4, pp. 4963–4969, February 2021.

Dr. Govindaraj P

- ✚ Munyaradzi Charles Rushambwa, Govindaraj P, Rajkumar Palaniappan, Vikneswaran Vijean, Fizza Ghulam Nabi. Cloud-based analysis and classification of EEG signals to detect epileptic seizures, International (Virtual) Conference on Biosignals, Images, and Instrumentation (ICBSII)-2021, India.
- ✚ Tinashe Chamunorwa, Munyaradzi Charles Rushambwa, Emmanuel Mberi, Rajkumar Palaniappan, Govindaraj P, Calvin Mugauri. Field Programmable Gate Array-based low power multipurpose display board using 3 Dimensional LED Cube, International Conference on Innovations & Trends in Computing-2021, India.

FACULTY INTERACTIONS WITH OUTSIDE WORLD



Ph.D Awarded under the guidance of Dr. Nagesh H R

- ✚ Mr. Sathyendranath Malli, under the title “Knowledge Based Information System for Rural Healthcare Data Sets Using Data Mining Techniques” - Awarded by MAHE, Deemed to be University in March 2021.
- ✚ Mr. Deepak Rao, under the title “Adaptation of Information and Communication Technology Platform to Enhance the Agricultural Productivity” – Awarded by MAHE, Deemed to be University in March 2021.

Ph.D comprehensive viva-voce completed under the guidance of Dr. Nagesh H R

- ✚ Mr. Annappaswamy D.R, Associate Professor, Department of Computer Science & Engineering, Mangalore Institute of Engineering & Technology, Moodabidri has completed his Pre-Ph.D. comprehensive viva-voce on 01.02.2021



Congratulations

Project titled “COVID detection using deep learning” with student team Shreya Shetty, Shreya VR, Devika, Rahisha under the guidance of Mr. John Prakash Veigas and Mr. Rakesh M R has been selected for Karnataka State Council for Science and Technology (KCST) grant and awarded with 2500 Rs of grand amount.

Department of Information Science and Engineering

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

Features of the Department

- ❖ Smart Classrooms
- ❖ Well-equipped Laboratory with great software support
- ❖ Soft skill training programs
- ❖ Real time projects and exposure to industry
- ❖ Excellent teaching staffs with adopting innovativeness to excel in the academics
- ❖ Skilled supporting staff with good experience
- ❖ Effective syllabus coverage
- ❖ Faculty prepared study material
- ❖ Consistently achieving excellent results in all the semesters





DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING



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