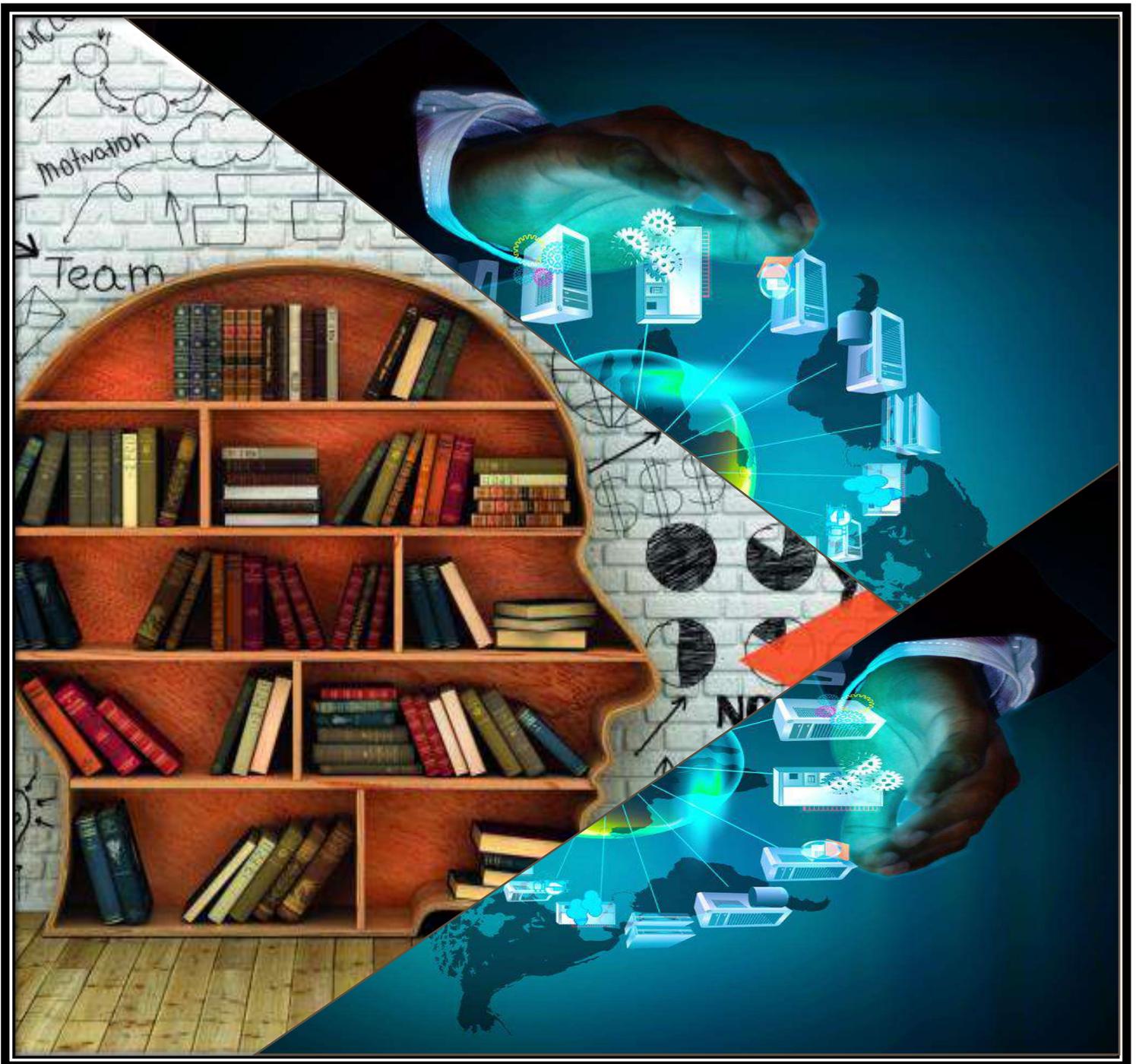


INFOSPARK

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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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A.J. Institute of Engineering & Technology

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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.

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

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 fulfill the needs of the society and industry

PEO'S

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

PO's

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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
6. **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
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **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



I am happy to note that the Department of Information Science and Engineering enumerates the various activities and achievements of our faculty and students.

The department accredited from National Board of Accreditation (NBA) for the academic years 2022-23 to 2024-25 i.e., up to 30-06-2025.

The department endeavours to produce confident professionals tuned to a real time working environment. The department offers an excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them.

Editors Team

Chief Editor



*Dr Suresha D
Professor & Head
Dept of ISE*

Editor



*Prof Arpitha G
Assistant Professor
Dept of ISE*

Student Editors



*Mr Athin P B
2nd Year ISE*



*Ms Prathiksha Varkhara
2nd Year ISE*



*Mr Sikith M Shet
2nd Year ISE*

“Modern technology has become a total phenomenon for civilization, the defining force of a new social order in which efficiency is no longer an option but a necessity imposed on all human activity.” – Jacques Ellul

DEPARTMENT ACTIVITIES

Intra institutional innovation competition and reward:

The Department of Information 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 Innovations 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 Judges and one External judge Dr. Pavitra Shanbhag, Asst. Professor & HOD of Mathematics.



Objectives:

This program enables student / faculty in

1. Organizing an Intra Institutional Competitions and Rewards for best innovations
2. Membership support to initiate the innovations / prototypes developed.

Outcomes:

On successful competition of poster presentation programme the student should be able to:

1. Poster Presentation competition and best of all innovations are evaluated.
2. Need for developing prototypes and updating the skills required.
3. Developing Innovation and Entrepreneurial skills.

Talk on AJIET Spectacle 23:

The Technical Committee of AJIET organized an AJIET SPECTACLE 23 to exhibit and evaluate the project works of all the departments. Mr Dr.Sukhwinder Sharma was the external Judges for evaluating the ISE related project works. He interacted with each and every team and evaluated individual projects.



Also, the Internal judge was Mrs Sahaya R Shamini, Assistant Professor, Department of ISE, evaluated the work. All the Poster prepared by the students were exhibited with their Project Models.

Webinar on AI &ML:

The event conducted on 08-03-2023 at 2.30 to 4.30 & venue : Seminar Hall-1 on Virtual Mode. Head of the Dept. of ISE, Dr Suresha D briefed vision, mission, PEOs, Pos and PSOs of the department.

Artificial intelligence is a technique for building systems that mimic human behaviour or decision making.

Machine learning is a subset of AI that uses data to solve tasks. These solvers are trained models of data that learn based on the information provided to them. This information is derived from probability theory and automatically solve predictive tasks.

Deep learning is a subset of machine learning which relies on multilayered neural networks to solve these tasks. Given that machine learning is a fundamental basis for AI, it's worthwhile to understand the different forms of machine learning.

There are three kinds of machine learning supervised, unsupervised and reinforcement learning. Each form solves problems differently.



Objectives: The objectives of the Webinar on engineering life:

1. Students will establish themselves as effective professing by solving real problems through the use of computer science knowledge and with the attention of team work, effective communication, critical thinking and problem-solving skills.
2. Student will develop problem solving skills that prepare them for immediate employment and for lifelong learning in advanced areas of computer science and related fields.

Outcomes: On successful completion of program of this Webinar the student should be able to do:

1. Apply the knowledge of Mathematics, Science, Engineering fundamentals and an engineering specialization of the solution of compiles engineering problems.
2. Identify, formulate review research literature and analyze complex engineering problems reaching sustained conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Technical talk on Placement:

Mr. Vivek Ranjan (Placement Head, AJIET) presented about the placement. He explained 10 tips for how to build a resume

1. Look for keywords in job posting.
2. Review resume examples for your industry.
3. Use a professional font
4. Include only the most relevant information and put the most important information first.
5. Use active language
6. All attention to important achievements
7. Only include subheadings and sections you need.
8. Choose appropriate margins
9. Proofread and edit
10. Decide whether you need a unique resume for different jobs

Later guidance for placement preparation was discussed.

1. Aptitude test
2. programming language
3. subject basics
4. other important computer subjects

Objectives:

1. They focus their brainpower on solving problems through the application of science and mathematics, discovering new ways to make life better for the general public.
2. Engineering design goals focus on problems through the application of creative thinking using scientific and mathematic principles.



Outcomes:

1. Creative process that marries technological perspective and design thinking methodologies.
2. An ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.

"Farewell" for 2019-23 Batch:

Farewell programme for the 2019-2023 batch (HASTA LA VISTA) was conducted on 19/05/2023 at 2:00PM to 5:00PM Organized by Information Science and Engineering in Association with Department Association Students.



After the formal function, Mr.Yashas Bhandary and Greeshma C Poojary Hosted an informal function which began cultural performance like group Dances. Ms Greeshma and her team conducted a few events of games for graduating Students.in the informal function, the graduating students received the Token of their batch of love. The refreshment was served to all those who Gathered for the event. The informal function ended with a group dance.

Expert talk on “Intellectual Property Rights” on the occasion of Celebration of Intellectual Property Rights Day:

World Intellectual Property Day holds great significance in promoting and protecting the rights of creators and innovators worldwide. Intellectual property rights are crucial for promoting innovation, creativity, and progress in various fields, including technology, science, and the arts.



The celebration of World Intellectual Property Day provides an opportunity to raise awareness about the importance of protecting intellectual property rights and to highlight their role in encouraging innovation and creativity. It also serves as a reminder of the significant contribution made by creators and innovators to the economic, cultural, and social development of societies.

FACULTY ACHIEVEMENTS

SL No	Name of the Teacher (s)	Department	Title of Paper	Publication citation	National or International Journal
1	Dr. Suresha D	ISE	Design and Implementation of Image De-hazing Using Histogram Equalization	Mobile Radio Communications and 5G Networks. Lecture Notes in Networks and Systems, vol 588. Springer, Singapore. 2023. pp 343-35, https://doi.org/10.1007/978-981-19-7982-8_28	Book Chapter
2	Dr. Suresha D	ISE	Distance Estimation in Video using Machine Learning	2023 3rd International Conference on Smart Data Intelligence (ICSMDI). Trichy, India, 2023, pp. 415-421, https://doi.org/10.1109/ICSMDI57622.2023.00079	International conference
3	Prof Prabhakara B K	ISE	Hybrid Meta Heuristic technique load balancing for cloud based virtual machine	International Journal of Intelligent Systems and Applications in Engineering	International journal
4	Prof Navya Rai	ISE	Air quality predictive analysis using machine learning	Volume:04/Issue:05/May-2022 pp 6293-6299 International Research Journal of Modernization in Engineering Technology and Science	International Journal

STUDENT ACHIEVEMENTS

TECHNICAL

Mr. Kiran Kumar of AJ. Institute of Engineering and Technology college has secured second place in Ideathon – solving realistic problem in & around Mangalore event as part of “Ideathon conclave for better Mangalore, 2nd edition” held at St Aloysius college (Autonomous), Mangalore on 2nd and 3rd May 2023

PLACEMENTS

SL No	USN	Name	Company	Position	Package
1	4JK19IS024	Kashma D	Accolade Tech Solutions	Marketing Executive	15KPM
2	4JK19IS020	Joshwa V Fernandes	Glowin-Proen _ Glowtouch	Graduate Engineering Trainee	15KPM
3	4JK19IS020	Joshwa V Fernandes	Ethnus Codemithra	Trainee	
4	4JK19IS024	Kshama D	Ethnus Codemithra	Trainee	
5	4JK19IS014	Deeksha Shetty K	Ethnus Codemithra	Trainee	
6	4JK19IS025	Manvith Shetty	Ethnus Codemithra	Trainee	
7	4JK19IS013	Deeksha	Ethnus Codemithra	Trainee	
8	4JK19IS058	Sudarshan Udupa	QSpiders	Trainee	
9	4JK19IS006	Anush Kumar	QSpiders	Trainee	
10	4JK19IS011	Basavaraj U Kurubara	QSpiders	Trainee	
11	4JK19IS057	Sinchana B R	QSpiders	Trainee	
12	4JK19IS057	Sinchana B R	Webwings	Software Engineer.	4.8LPA
13	4JK19IS024	Kshama D	Emertxe Information Technologies Pvt Ltd	Inside Sales Executive	3.6LPA

TOPPERS



KISHAN KUMAR
Semester: 8
SGPA: 9.5



KSHAMA D
Semester: 8
SGPA: 9.5



Ram Krishna Marndi
Semester: 8
SGPA: 9.5



KSHAMA D
Semester: 7
SGPA: 9.65



BHAGYASHREE
Semester: 7
SGPA: 9.45



Hrithik N R
Semester: 5
SGPA: 8.46



Chaithanya
Semester: 5
SGPA: 8.13



Thanvi R Shetty
Semester: 3
SGPA: 9.17



Vikram Balachandra N
Semester: 3
SGPA: 9



Nidhi J M
Semester: 3
SGPA: 9

Major goal about the department:

- To produce highly knowledgeable, competent and resourceful young engineers who can excel in their respective profession
- To be a center of excellence in Information Science & Engineering education, research and training to meet the growing needs of the industry and society.
- 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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Kottara Chowki, Mangaluru