PRATHIBIMB

Department Newsletter

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AJIET

> " Scientists study the world as it is; engineers create the world that has never been. "
>
> **– Theodore von Kármán**

प्रतिबिंब

THE REFLECTION OF EC @AJIET

DEPARTMENT VISION

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

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Exhibit a desire for lifelong learning through professional and societal activities.

PEO2: Exhibit and apply their technical skills and knowledge in Electronics and Communication Engineering for industry and societal needs

PEO3: Exhibit leadership qualities, professional skills, management skills and ethics needed for successful career.

DEPARTMENT MISSION

M1: To establish state-of-the art laboratories to facilitate research and innovation to upgrade the knowledge and skills in healthcare sector and IoT.

M2: To provide industry interaction for training programs on latest technology

M3: To provide ethical and value based education by promoting activities addressing the societal needs.

About A J Institute of Engineering and Technology (AJIET)

Our Institution AJ Institute of Engineering & Technology is established in 2016, AJIET is the flagship of Laxmi Memorial Education Trust (LMET). The trust was founded by Dr. A J Shetty, registered during 1991 in memory of Late Laxmi Shetty, mother of Dr. AJ Shetty, the President and Managing Director of the Trust and Sri.Prasanth Shetty, Vice-President LMET, who for saw an academic community growing in strength and repute. He believed in quality education would play a significant role in nation building. The trust oversees various Institutions, including those dedicated to Medical Sciences, Hotel Management and many more.

Currently, the trust is managing 15 Institutions which are located in Mangaluru city limits and imparting quality education in the fields of Medical, Dental, Engineering and Management Education. Thousands of economically backward citizens have been benefitted from the free medical facility provided by the trust. Provides opportunity for both students and faculties to engage with industry, society and also access to an ever-growing alumni network. Also provides excellent research support by funding multidisciplinary innovative projects essential for solving the needs of the society. AJ Institute of Engineering and Technology (AJIET) Mangalore, has an 8-year legacy of producing quality industry-ready engineers. We offer courses in B.E. in Civil, Mechanical, Electronics and Communication, Computer Science, Information Science & Engineering, AI & ML, AI & Data Science, IoT & Cyber Security including Block Chain Technology (ICB).

AJIET is one of the outstanding Engineering College located in Mangalore, and is well known for providing high quality education at a very affordable cost. Ours is the only Engineering college which is located within the city limits of Mangaluru region and the campus is spread over in a lush green campus of 11.59 acres of land. At AJIET, academics go beyond the pursuit of a professional degree. We motivate students to achieve high levels of learning by providing a supportive environment, dedicated teachers, superior delivery mechanisms and state- of –the -art infrastructure. This in turn nurtures high caliber engineers and management professionals, ready to redefine what's possible.

AJIET strives to impart quality education along with industrial exposure. We make this possible by providing world - class facilities to undertake research activities relevant to industrial and professional needs, while also promoting entrepreneurship as well as value – added education that is socially relevant. Among the branches Civil, Mechanical, Electronics and Communication, Computer Science, Information Science & Engineering are accredited by NBA during the year 2022. We also offer Research Centers in Civil, Electronics & Communication, and Mechanical Engineering, Computer Science, Physics, Chemistry & Mathematics. Every year, around 2000 students study in AJIET.

Till date, more than 2000 engineers have graduated from our Institution. From the past four years, the academic strength of AJIET is reflected in the constant and excellent results over the past 8 years – above 96% University pass percentage, and one University rank.

About A J Institute of Engineering and Technology (AJIET)

AJIET has established IoT Club, Aero Club, Automotive Club, Radio Club, Embedded & Robotic Club, Eco Club, Industry Institute Partnership Cell (IIC) and Entrepreneurship Development Cell (EDC) for the benefit of the students. This gives a wide exposure beyond curriculum to the students.

A successful education creates a learner for life:

Over 8 years, we have evolved and perfected a unique approach to knowledge delivery in all our engineering programmes. We are deeply involved in the students' academic lives to ensure that they work towards excellence from the start. We emphasize on a curriculum that facilitates knowledge –gathering as well as higher order thinking. Our faculty engage in experimental teaching methodologies, motivating students towards high academic performance. With invaluable industry & corporate exposure, every experience and opportunity presented to them holds immense possibilities for self-development. Over 1000 students many of them are industry leaders, entrepreneurs who have stepped out of our portals.
Learning that goes beyond four walls:

For learning to be genuine and sustainable, we help students to implement theoretical concepts to practical applications. Guest lectures, technical seminars, conferences and industrial visits introduce them to workplace practices and latest technological developments. We have introduced innovative Smart Classrooms, where industry leaders conduct webinars or simulated classroom teaching in key subject areas.
At AJIET, an approach of research is instilled in our students. Students undertake research projects, they are involved in paper presentation at seminars and participate in technology fests. They also work with faculty, collaborating on projects and building deep rooted relations with A J Medical College and industries.
Holistic learning in a dynamic environment:

AJIET is a place for creative thinking and passionate pursuits. The campus is alive with the energy and enthusiasm of its students, faculty and other members, who organize events and activities, proactively. Sports & yoga forms an integral part of the curriculum as we emphasize on the physical as well as mental well-being of our students. Individual interests and talents are encouraged through interactive clubs like Aero-modelling and robotics clubs and many more.
Training & Placement:

- Placement cell organizes personality development programmes & workshops, comprising, communication skills, presentation skills, group discussions, Technical Quizzing, Aptitude tests, Mock interviews and they like, to gear up candidate's profile.
- Placement cell invites corporate companies for recruitment on campus. A fully fledged Training, Placement and Entrepreneurship cell is established in the campus and is headed by Mrs. Kavitha and Dr. Anil as Main coordinator. This department acts as a liaising window, connecting HR Departments of corporate world.
- A placement cell is also operating to have corporate relations with various MNCS' for effective placements. This ensures in connecting corporate companies located in metro cities. Major recruiters are Switch Gear, Headway, Aykan, Mu Sigma, Toshiba Mitsubishi, Tata Electronics, Toyota Kirloskar, Juspay, Delta X, EuroNext, Aarbee structure, Novigo Solution, G R Infrastructure, TCS, Wipro, Infosys, Atkins, 7 Edge, Hiwin Indo MIM, Unicourt, Mirafra, Shree Cement, Hashedin and many more

VISSION OF THE INSTITUTE

"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 OF THE INSTITUTE

M1: To offer affordable high-quality graduate program in engineering with value education and make the students socially responsible.

M2: 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

M3: To identify the common areas of interest amongst the individuals for the effective industry- institute partnership in a sustainable way by systematically working together.

M4: To promote the entrepreneurial attitude and inculcate innovative ideas among the engineering professionals.

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I am, and ever will be, a white socks, pocket protector, nerdy engineer.

99

- Neil Armstrong

ABOUT THE DEPARTMENT

The Electronics and Communication Engineering department, established in 2016, has an intake of 120 students and was accredited by the NBA for three years in 2023. The department offers undergraduate programs in Bachelor of Engineering, Post Graduate M.Sc. (Engineering), and Doctoral degree programs. The faculty is highly qualified and provides outcome-based education, allowing students to upgrade their technical knowledge and develop skills for employment, higher education, and entrepreneurship.

The curriculum includes industrial visits, webinars, technical talks, and workshops. The department also runs IEEE, IE (I), and ISTE student's chapters, and students participate in various activities. The department also runs Embedded and Robotics clubs and radio clubs, EVSA, fostering communication, leadership, teamwork, and technical and non-technical skills. The department has spacious classrooms with LCD projectors and well-equipped laboratories. Faculty members are encouraged to develop themselves through various activities, exposure to latest technologies, and industry-ready training.

> ❝ 'It's better to take many small steps repeatedly in the right direction, if needed to consoli- date the founda- tion; than to make. a big leap forward hurriedly, only to stumble back ❞

From HOD's Desk

Welcome to the Department of Electronics and Communication Engineering, AJIET. The mission of Department of Electronics and Communication Engineering AJIET is to ensure its students successful careers.

The modern era has seen rapid advancements in Electronics and Communication, including Embedded Electronics, VLSI, Microprocessors, Supercomputers, Robotics, and Healthcare. As demand for advanced technology increases, so does the demand for Electronics Engineers, with students highly sought by top companies, demonstrating the endless scope of this field.

Dr. Kiran Kumar V G
Associate Professor & HOD

The Department of Electronics and Communication Engineering, established in 2016, aims to provide quality education through excellent infrastructure and teaching faculty, ensuring student satisfaction.

The Department offers innovative teaching and leadership experiences, enhancing students' communication and critical-thinking skills through Industry-Department Collaboration with MoUs and enhancing their employability.

"It's better to take many small steps repeatedly in the right direction, if needed to consolidate the foundation; than to make. a big leap forward hurriedly, only to stumble back"

DEPARTMENTAL ACTIVITIES

Workshop on Basic Electronics

A workshop on "Basics Electronics" was arranged by the IEEE Student Chapter and the Department of Electronics & Communication Engineering of A J College of Engineering and Technology Mangalore at SDPT School Kateel on 6 Aug 2023 . The mentors for the event were Mr. Manjukiran B, Assistant Professor and Dr. Gnane Swarnadh Satapathi, Associate Professor, Dept. of ECE. The "Basics of Electronics" workshop taught the students the knowledge and tools they required to build fundamental electronic circuits.

Teacher's Day Celebration

The students of ECE celebrated Teacher's Day Celebration on 05.09.2023 . The Students offered Roses, and Sweets as a gratitude to teachers thereby marking a positive note on the Celebration. The Celebration was held at Software Lab-1

Industrial Visit to Karmic Design Pvt. Ltd

Four students of ECE from A J Institute of Engineering and Technology, attended a visit to Karmic Design Pvt Ltd that was organized by the IEEE MSS on 08.09.2023 . Through the visit, the students were able to learn the principles of circuit design, macro modeling, verification, layout, validation, test, embedded firmware, and applications, as well as develop an understanding of the processes used in the industry.

Talk on Public Awareness

On account of Engineers day, The Institute Innovation Council in association with IEI student chapter,AJIET organized a talk on 15-09-2023 about "Public Awareness Programme by MCF" from 3:00PM-5:00PM. The Speakers included Dr. Ravi D R, Regional Officer ,Karnataka state Pollution control Board, S Girish, Chief Manufacturing Officer, MCF, Mangaluru,

FACULTY ACHIEVEMENTS

SL.No	Date	Staff Name	Organized by	Event Name	Type of Event	No of Days
1	24/07/2023-28/07/2023	Mrs. Divya A	NITTE	Mathematical Foundations and Research Trends in Communication (MFRTC)	FDP	5 Days
2	21/08/2023-22/08/2023	Mrs. Pratheksha Rai N	UNDP & Seventh Sense Talent Solutions	Faculty Training on "Entrepreneurship Development Program"	FDP	2 Days
3	21/08/2023-22/08/2023	Mrs. Deepashree A P	UNDP & Seventh Sense Talent Solutions	Faculty Training on "Entrepreneurship Development Program"	FDP	2 Days
4	21/09/2023-23/09/2023	Mrs. Deepashree A P	SJEC, AICTE, IDEA Lab in-association with Research and Facilities Group	Skill Development Training on " Scientific Paper Writing and Publishing"	FDP	3 Days
5	21/09/2023-23/09/2023	Mrs. Pratheksha Rai N	SJEC, AICTE, IDEA Lab in-association with Research and Facilities Group	Skill Development Training on " Scientific Paper Writing and Publishing"	FDP	3 Days

Manish Shetty
Placed in Mirafra Technologies
7 LPA

Mohan Singh K
Placed in Mirafra Technologies
7 LPA

Sanjana
Placed in Mirafra Technologies
7 LPA

Seema J Rai
Placed in Mirafra Technologies
7 LPA

Swasthik Kamath
Placed in Mirafra Technologies
7 LPA

A.J INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU
Department of Electronics and Communication Engineering

Congratulations Mr. Mohan Singh, Mr. Swasthik Kamath, Mr. Manish Shetty, Ms. Sanjana and Ms. Seema J Rai for getting Placed in

mirafra
TECHNOLOGIES

ACADEMIC TOPPERS

Mohan Singh K
VII SEM
SGPA: 8.55

Seema J Rai
VII SEM
SGPA: 8.55

Spoorthi
VII SEM
SGPA: 8.45

Sanjana
VII SEM
SGPA: 8.4

EDITORIAL BOARD

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Associate Professor & HOD

Editor: Ms. Pratheksha Rai N,
Assistant Professor

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SUHAN RAI, 3rd YEAR

MOHD. AAWAN SHAIKH, 3rd YEAR

THRISHUL CHARAN, 2nd YEAR

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"Engineering is the closest thing to magic that exists in the world." – *Elon Musk*