



A. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY



(A unit of Laxmi Memorial Education Trust®)

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BENCHMARK

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NEWSLETTER

Department of Civil Engineering

About AJ Institute of Engineering and Technology

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 engineering education at a very affordable cost.

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 entrepreneurs' well as value-added education that is socially relevant.

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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.

AJIET has established IoT Club, Aero Club, Automotive Club, Radio Club, Embedded & Robotics 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 programme's. 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.

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..



OUR PATRONS



Dr.A.J. Shetty
President, LMET



Mr. Prashanth Shetty
Vice President, LMET



Dr. Shantharama Rai C
Principal, AJIET



Dr.P Mahabaleshwarappa
Dean Academics, AJIET

VISION OF 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 INSTITUTE

- 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.

ABOUT THE DEPARTMENT

The 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, Mangalore. The Department is offering under graduate courses (B.E) in Civil Engineer- ing 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.

HOD DES

To impart students a strong theoretical and practical skills through the state-of-the-art concepts and fundamentals of various Civil Engineering subjects. To prepare the students to be competent and skilled enough to take the challenges in Research, Consultancy and Entrepreneur to meet the ever-changing needs of society and to continue learning their discipline. To promote active learning, critical thinking, collaborative activities and contribute to social development with ethical values



Dr. Suman Kundapura
Head of the Department

FACULTY MEMBERS



Dr.Suman Kundapura
Head of the Department



Prof. Vinod T DSouza
Assoc. Professor



Dr. Amarnath Shetty
Professor



Dr. Sangeetha D M
Assoc. Professor



Mrs. Deeksha Anand
Asst. Professor



Mr. Saketh Shetty
Asst. Professor



Mrs. Babitha
B Asst.
Professor



Mr. Nitesh
Asst. Professor



Mrs. Pooja Deepak
Asst. Professor



Ms. Shruthi Shetty
Foreman



Mr. Nagaprasad
Instructor

VISION

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

MISSION

- To impart students with strong theoretical and practical skills through the state-of the-art concepts and fundamentals of various civil engineering subjects.
- 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.
- To promote active learning, critical thinking, industry - institute collaborative activities and contribute to social development with ethical conduct.

PEO's

- PEO1: Apply concepts of interdisciplinary sciences and technology to solve any civil engineering problem.
- PEO2: Execute civil engineering projects effectively by addressing the ever-changing needs of society and aim for continuous improvement..

PEO3: Competent enough to pursue higher studies and also to monitor and manage the research

project with the effective utilization of resources to suit the needs and face the challenges

PSO's

involved to meet the global demands.

- PSO1: Should be able to understand the various domain concepts of civil engineering and execute the projects effectively.
- PSO2: Demonstrate competency in the technical community and arrive at sustainable solutions to the real world problems.
- PSO3: Take up challenging roles by focusing on a systematic approach

PROGRAM OUTCOMES (PO'S)

Engineering Graduates will be able to:

- **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 analyze problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems using design tools to 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 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 modeling 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 and sustainability:** Understand the impact of the professional engineering solutions in 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 teamwork:** 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 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.

PARENTS TEACHER MEETING



Department of Civil Engineering had conducted the Parents Teachers meeting with HOD, First Year Coordinator, Class Advisors, and Counsellors on 01st April 2024 at 02:00 pm.

HOD addressed the gathering about the current scope of Civil Engineering and how the students should develop their skills to be ready for the industry. Parents were also informed about the new 2022 scheme subjects and their requirements. The parents were assured that the students will turn into better engineers due to the introduction of new scheme. The overall results of the first semester and the different activities conducted in the department was projected to the parents

WORKSHOP



Department of Civil Engineering in association with Student association Team Resilience had organized Five days workshop on Primavera Software for Final year Civil Engineering students from 15th to 19th of April 2024 in A block 3rd floor CADD Lab.

The course demonstrates the useful applications of software in project management and helps participants develop skills to handle projects using Primavera, covering all basic features of the software available over web and offline.

Outcomes:

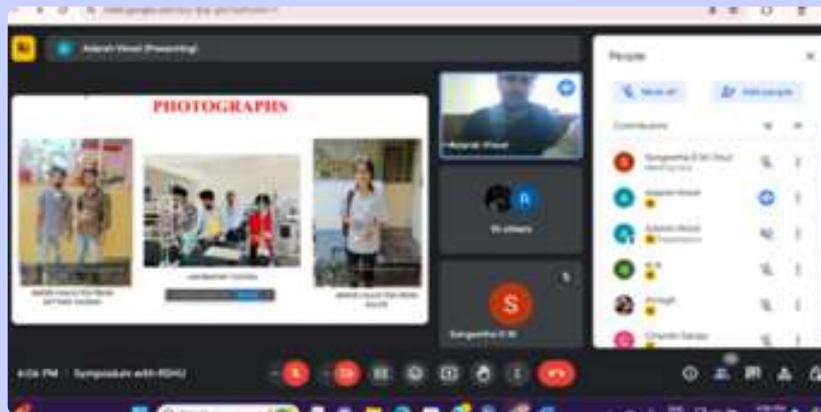
- On successful completion of program of this lecture/ technical talk/workshop the student should able to:
- Understand and Create a project; build a Work Breakdown Structure and add activities, schedule and baseline, assign resources; and resolve schedule delays.



Department of Civil Engineering in association with Student association Team Resilience had organised. Three days workshop on Geospatial Data Analytics for Second year Civil Engineering students from 23rd to 25th of May 2024 in A block 3rd floor CADD Lab.

The main aim of conducting a workshop on Geospatial Data Analytics to civil engineering students aims to introduce them to a relevant tool, raise awareness of career opportunities, promote interdisciplinary learning, enhance problem-solving skills, prepare them for industry trends, expose them to real-world applications, and encourage lifelong learning.

AJIET- SYMPOSIUM



Department of civil Engineering in association with RUSSIAN State Hydrometeorological University has organised an online event on 22-4-2024 at 3:30 PM, 2ND AJIET-SYMPOSIUM-2024(Knowledge Exchange Event) in association with AJIET Students Chapter Indian Society of Technical Education (ISTE), Institute of Engineers India (IEI), Institute of Electrical and Electronics Engineers (IEEE) through google meet platform (<https://meet.google.com/eyc-fjnp-gks>). Symposiums enhance the technical knowledge of students and provide them a platform to exhibit their talents. It helps students to identify and understand the various aspects of their domain which provides opportunities for them to develop their versatility and charisma in the divergent facet of their growth.

SURVEY CAMP



A J Institute of Engineering & Technology conducted their 5th Survey Camp for B.E 3rd year students of Civil Engineering successfully from 13th May 2024 to 18th May 2024 at Durga village, Karkala taluk. This camp was aimed to groom civil engineering students with essential knowledge and exposure to the real work, and to encourage leadership and teamwork skills. This survey camp resulted in encouraging and supporting students, emerging as leaders in several areas of academic provision. Students have conducted various survey practical projects which is taught as theory in classroom. Which included old tank project, new tank project, highway alignment project, town planning project and water supply project.

TECHNICAL TALK



Department of Civil Engineering in association with AJIET ECO club had organised Technical talk on Land Restoration, Desertification and Drought Resilience for AJIET students on 5th June 2024 on account of World's Environment Day in Seminar Hall-1 at 2:30 PM.

World Environment Day is celebrated every year on June 5. It is a global event led by the United Nations to encourage awareness and action to protect the environment. The day aims to raise awareness about environmental issues and inspire people and governments to take action to protect the planet.

The theme for World Environment Day 2024, 'Land restoration, desertification, and drought resilience,' underscores the importance of restoring degraded land and building resilience to droughts and desertification. It highlights the critical role that land plays in sustaining life and fostering biodiversity.

FAREWELL



Department of Civil Engineering AJIET had organized farewell function for 2020-2024 batch students in association with student association Team Resilience on 21-5-2024 at A Block seminar hall 1. Mr. Farhan Ahmed of second year Civil Engineering took over the event and all the outgoing students were awarded a memento as token of remembrance. Third year and second year students had taken Incharge of conducting program and the event had run smoothly with 113 student participation. Hod had addressed the gathering and conveyed good wishes for their future endeavours followed by all the teaching faculties

ALUMNI MEET



"ALUMNI MEET 2024" was a program arranged by the Department of Civil Engineering Alumni Association at AJIET with the goal of facilitating, coordinating, and uniting alumni activities. The purpose of the alumni meet is to commemorate and rekindle relationships among the alumni via their many successes. By 11:00 a.m., alumni had begun to arrive at the campus. The registration team welcomed them and asked them to complete the registration form. A welcome speech opened the Alumni Meet. The 2024 Alumni Meeting took place at the Geotechnical Laboratory.

PROJECT EXHIBITION



Professional societies of AJIET, IEEE, ISTE students chapter, IEI had organised TECHPRO-2024, final year students project competition to exhibit and evaluate the project works of all the departments. The event was inaugurated by, DR. Mahabaleswarappa, Dean Academics

Inaugurated in the department of Civil and Mechanical Engineering in the presence of all HOD of the departments and the Teaching fraternity on 29-4-2024 at 9:30 AM to 1:00 PM at MMM lab in the department of Mechanical Engineering B block.

In total 10 teams from Civil Engineering had exhibited their project during the event. The students participated very enthusiastically in the exhibition through which students gained high confidence about to build, present and communicate ideas to others.

The event was coordinated by coordinators of AJIET-Professional societies namely IEEE, ISTE and IEI.

FACULTY ACHIEVEMENT

DR SANGEETHA D M – ASSOCIATE PROFESSOR, had participated in online sessions of International Conference on Geo- Disasters and Construction Engineering (ICGCE-2024) on June 7th and 8th 2024, Waterloo, Ontario, Canada

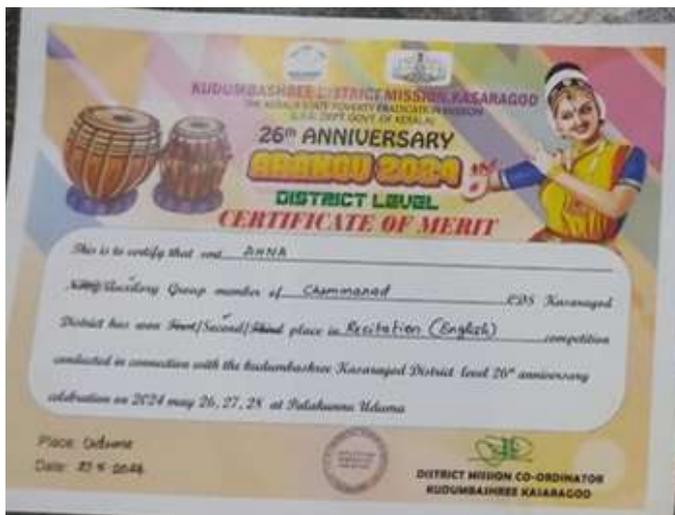
The faculties of Civil Engineering department, AJIET had Participated in the AICTE Recognized Faculty Development Programme on Digital Tools for Teaching and Learning Conducted by Media Engineering Department from 11/03/2024 to 15/03/2024 (One Week) at A J INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALORE

Ms. Deeksha Anand, Assistant Professor, Department of Civil Engineering, AJIET, had participated in “ Faculty Development Program on Recent Advances in Structural Engineering” Organized by department of Civil Engineering, Hindustan Institute of Technology and Science, Chennai held during 6th to 10th May 2024

STUDENT ACHIEVEMENT



MJ Sakthi Magendhiran, a third-year Civil Engineering student, recently showcased his exceptional skills by securing first place in two prestigious national-level competitions. On May 1-2, 2024, he excelled in the Conceptify event at the Saavishkar National Level Techno Fest held at MITK Kundapura. Shortly thereafter, on May 2-3, 2024, he continued his winning streak by clinching first place in Golmaal-Code Escape at Envision, the National Level Techno-Cultural Fest at Srinivas Institute of Technology. These achievements underscore his outstanding abilities in both engineering concepts and coding.



Ahna A, a third-year Civil Engineering student, excelled at the Arangu 2024 district-level competition held in Kasargod from May 26-28, 2024. She secured first place in both Hindi and English musical performance categories, demonstrating her outstanding versatility and talent. Her impressive achievements in these vocal events underscore her exceptional skills and dedication to her craft.

STUDENT ACHIEVEMENT



NIKITHA K N

**MS. NIKITHA K N of 8TH sem scored
9.67 SGPA in university exams**



SHIVANI KODIKAL

**MS. SHIVANI KODIKAL of 8TH sem
scored 9.67 SGPA in university exams**



LAXMIKANTH SHET

**Mr. N LAXMIKANTH SHET of 8TH sem
scored 9.5 SGPA in university exams**

EDITORIAL BOARD



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