



A.J. Institute Of Engineering And Technology

Kottara Chowki Mangaluru - 575006



BENCHMARK

VOLUME 3 ISSUE 3
2022 JANUARY - 2022 MARCH

DEPARTMENT OF CIVIL ENGINEERING

COLLEGE VISION MISSION



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

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.





Dr. A J Shetty
President LMET



Mr. Prashanth Shetty
Vice -president LMET



Dr. Shantharam Rai C
Principal, AJIET



Dr. Suman Kundapura
HOD, CIVIL

**"GUILT AND FEAR ARE, ONLY BARRIERS TO GOOD DECISION SO
LIVE THE MOMEMNT"**

I express my deep gratitude to the Management and the Principal for all their support in grooming of the Civil Department. Despite of the pandemic the entire department has been wonderfully performing and it gives us immense pleasure to release this newsletter. The staff editor Mrs. Deeksha Anand and her team has done a commendable job in bringing out this issue, hearty congratulations to them. I also thank the entire Civil Engineering department who have kept the learning going during the distress.

EDITORIAL BOARD



Dr. Suman Kundapura
Chief Editor



Mrs. Deeksha Anand
Editor



Mr. Mohammed Qais
Designer



Mr. Preetham Naik
Designer

DEPARTMENT VISION

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

DEPARTMENT 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

DEPARTMENT PEO's

PEC1 - Apply concepts of interdisciplinary sciences and technology to solve any civil engineering problem.

PEC2 - Execute civil engineering projects effectively by addressing the ever changing needs of society and aim for continuous improvement.

PEC3 - 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 involved to meet the global demands.

DEPARTMENT PSO's

At the end of the program graduates will be able to :

PSC1 - Should be able to understand the various domain concepts of civil engineering and execute the projects effectively.

PSC2 - Demonstrate competency in the technical community and arrive at sustainable solutions to the real world problems.

PSC3 - Take up challenging roles by focusing on a systematic approach

POs AS DEFINED BY NBA

Engineering Graduates will be able to:

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 analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, 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 modeling 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 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.**
- 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 one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.**
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change**

INDUSTRIAL VISIT



A Industrial visit to "DAKSHINA KANNADA NIRMITHI KENDRA" was organized for the Civil Engineering students of third semester on 24-2-2022 who have just entered their respective branches. A half day visit to the Nirmithi Kendra was informative and productive.

During the visit, the Bio-Digester for Toilet Unit was explained to the students by Mr. Navith, Engineer, Dakshina Kannada Nirmithi Kendra. The importance of Bio-Digester, its applications, installation methods in existing buildings and new buildings was explained to the students.

Rain water harvesting structures being the need of the hour was very well demonstrated by Mr. Rajendra Rao Kalbavi, Project Manager, Dakshina Kannada Nirmithi Kendra. Finally, a live demonstration of an arch structure using brick and mortar was shown at the site



SURVEY CAMP



A J Institute of Engineering & Technology conducted their 4th Survey Camp for B.E 3rd year students of Civil Engineering successfully from 31st March 2022 to 7th April 2022 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.

The 7 days' camp was divided into various surveying exercises- Fly levelling, compass surveying, levelling and plane table surveying and Contouring. In the camp all the students of Civil Engineering Department learnt all the technical aspect which is required in Surveying. Students have conducted various survey practical projects which is taught as theory in classroom



ACADEMIC TOPPERS

**Ms. ANANYA KUDYADI of 7TH sem
scored 8.63**



**Ms. SHRIRAKSHA N CHITRAPUR of 5TH sem
scored 8.5 SGPA in university exams**



