



A.J. Institute Of Engineering And Technology

Kottara Chowki Mangaluru - 575006



BENCHMARK

VOLUME 3 ISSUE 2

2021 OCTOBER- 2021 DECEMBER

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

"THE GREAT WAY OF LIFE IS NOT ONLY KNOWLEDGE BUT ACTION"

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**

TECHNICAL TALK



Department of Civil Engineering, in association with student association **TEAM RESILIENCE** had organized a technical talk on **INNER VISSION OF NEW MANGALORE PORT TRUST** on 17th November 2021 in Seminar Hall 1. The session was very lively and the speaker had explained neatly about the history and the infrastructure of Mangalore Bunder which is now named as **NEW MANGALORE PORT**. He had also explained the transportation links, types of **CARGO**, and the commodities exported and imported through port.

Department of Civil Engineering, in association with student association **TEAM RESILIENCE** had organized a technical talk on importance of 3D visualization in Engineering using **3DS MAX AND VRAY**. The session was very lively and the speaker had explained neatly about the advantages of the software's what Civil Engineers, Mechanical Engineering's can use in this modern era. The software's what were discussed in the talk are **RIVET ARCHITECHTURE, ETABS, PRIMEVERA, LUMINOS, 3D MAX.**





A J INSTITUTE OF ENGINEERING AND TECHNOLOGY MANGALURU

DEPARTMENT OF MECHANICAL ENGINEERING

&

DEPARTMENT OF CIVIL ENGINEERING

ORGANIZES

TECHNICAL TALK ON



Dr. Ananth Pai S
Founder, APEX

OPPORTUNITY THROUGH GATE EXAM

HIGHLIGHTS

- Career Opportunities
- Public Sector Jobs
- IES Exam
- Internship

01/12/2021
WEDNESDAY
TIME:2.00 PM

@
Seminar - 1

Coordinators

Mr. Vinod D'souza
Mr. Karthik A.V.

HOD

Dr. Rajesh Rai P
Dr. Suman Kundapura

Principal

Dr. Shantharama Rai C

A Technical Talk on “Opportunities through GATE Exam” by Mr. Ananth Pai S, Founder-APEX Academy, Mangalore was organized on 01-12-2021 in Seminar Hall-1.

The session began by welcoming the resource person by Mr. Ashish 4th Year Student and introducing the resource person by Mr. Shanthanu Suhas 4th Year Student to the audience. Students from 2nd, 3rd and final year students of Mechanical and Civil Engineering witnessed the event.

Mr. Ananth Pai S covered the following topics by interacting the students: -

- **What are the opportunities through the GATE exam?**
- **Will it be useful to just clear GATE?**
- **What material must we follow?**
- **Will GATE only for toppers?**
- **Will GATE preparation help me in campus selection?**

BRANCH ENTRY-TEAM RESILIENCE

Association of Civil Engineering students – Team Resilience for the academic year 2020- 2021 was inaugurated on 17.11.2021, Wednesday by Mr. A V Harinath, Chief Engineer, New Mangalore Port Trust at seminar hall 1.

The ceremony continued with Prayer by Ms. Tanishka, Aishwarya and Anjali Amin of 5th sem, Dr. Suman Kundapura, Head of Civil Engineering Department welcomed the gathering. Ms. Deeksha Anand, association coordinator welcomed the new office Barres of Team Resilience followed by the Oath taking ceremony. The president of student association Mr. SHASHANK DEVADIGA had given a brief report on the activities conducted by the association in the year 2020-21.



NEW OFFICE BEARERS-2021



The new office bearers for TEAM RESILIENCE has been appointed for the academic year 2021-2022

NAME OF THE STUDENT	DESIGNATION	SEMESTER
Mr. Shashank Devadiga	President	7
Ms. Rishika Suvarna	Vice President	5
Janavi Costa	Secretary	7
Chethan	Joint Secretary	5
Shobhith	Treasurer	7
Sumeeth	Technical Coordinator	5
Vaishnavi	Cultural Coordinator	5
Kshawara	Sports/NSS	5
Mohammed Qais	Photography coordinator	5



AYUDHA POOJA

The college witnessed the Aayudha Pooja celebration on 14/10/2021 by TEAM RESILIENCE student Association in Geotechnical Engineering Laboratory in the presence of Principal Dr. Shantharam Rai, Head of the department Dr. Suman Kundapura, HOD's of other departments along with Staff and the students coordinated by Student Advisor. All were gathered in the GT lab to pay homage to the equipment's that allow for smooth learning. Traditions and cultural norms were adhered to so as to provide all with a holistic celebration experience



PLACEMENT

Deeksha of 7th sem placed in TCS as a Assistant system Engineer with 3.7LPA



Sunaina Gharthi of 7th sem placed in Jaro Education Trust with 7LPA



