

DEPARTMENT OF CIVIL ENGINEERING
NEWS LETTER

NIRMAAN



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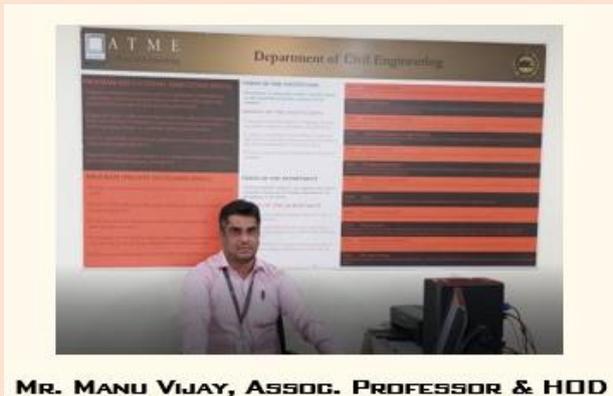
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Message from Editor's Desk:

Welcome to this issue of Newsletter from the Department of Civil Engineering. We are delighted to launch our Bi-Annual Newsletter "NIRMAAN". This newsletter is a digital way for us to communicate with our students, faculty members, alumni and industrial partners. This newsletter will provide a glimpse of the departmental activities and achievements. Also, it enlightens the readers about the latest happenings in the department, focusing about different activities like placement, student and faculty achievements. We look forward for more activities and achievements for the department to march towards excellence in the future. We would like to thank all teaching, supporting staff and our beloved students for their constant support.

Message from HoD's desk



Warm greetings!!

I am happy to release this year's first issue of department newsletter. There are many updates to share with respect to the department activities happened during the last six months. During the pandemic situation department has successfully conducted online classes using Microsoft team's platform. The continuous internal assessments and Project work evaluations happened online.

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Department Vision, Mission, PO's, PEO's & PSO's

Vision:

To develop globally competent civil engineers who excel in academics, research and are ethically responsible for the development of the society.

Mission of the Department

1. To provide quality education through faculty and state of art infrastructure.
2. To identify the current problems in society pertaining to Civil Engineering disciplines and to address them effectively and efficiently.
3. To inculcate the habit of research and entrepreneurship in our graduates to address current infrastructure needs of society.

Program Educational Objectives (PEOs)

PEO1 - Engaged in professional practices, such as construction, environmental, geotechnical, structural, transportation, water resource engineering by using technical, communication and management skills.

PEO 2 - Engaged in higher studies and research activities in various civil engineering fields and life time commitment to learn ever changing technologies to satisfy increasing demand of sustainable infrastructural facilities.

PEO 3 - Serve in a leadership position in any professional or community organization or local or state engineering board

PEO 4 - Registered as professional engineer or developed a strong ability leading to professional licensure being an entrepreneur.

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Program Specific Outcomes (PSOs)

PSO 1 – Provide necessary solutions to build infrastructure for all situations through competitive plans, maps and designs with the aid of a thorough Engineering Survey and Quantity Estimation.

PSO 2 – Assess the impact of anthropogenic activities leading to environmental imbalance on land, in water & in air and provide necessary viable solutions revamping water resources and transportation for a sustainable development

Program Outcomes (POs)

Engineering Graduates will be able to:

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: 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.

PO4: 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.

PO5: 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.

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P06: 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.

P07: 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.

P08: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

P09: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

P010: 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.

P011: 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.

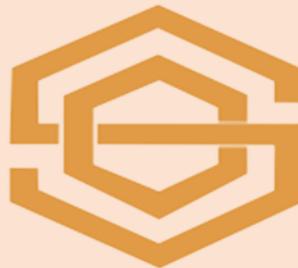
P012: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Memorandum of Understanding (MOU)

Department has signed MoU's with various organizations to promote interaction with industry experts through guest expert lectures, internships, training programs & site visits for minimizing the gaps between academics & industry.



Indian Green Building Council

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Activities conducted by the department



Site visit to Hostel Block construction



Technical Talk on "Evaluation of land & immovable properties"



Site visit to Hostel Block construction



Industrial visit to BEML



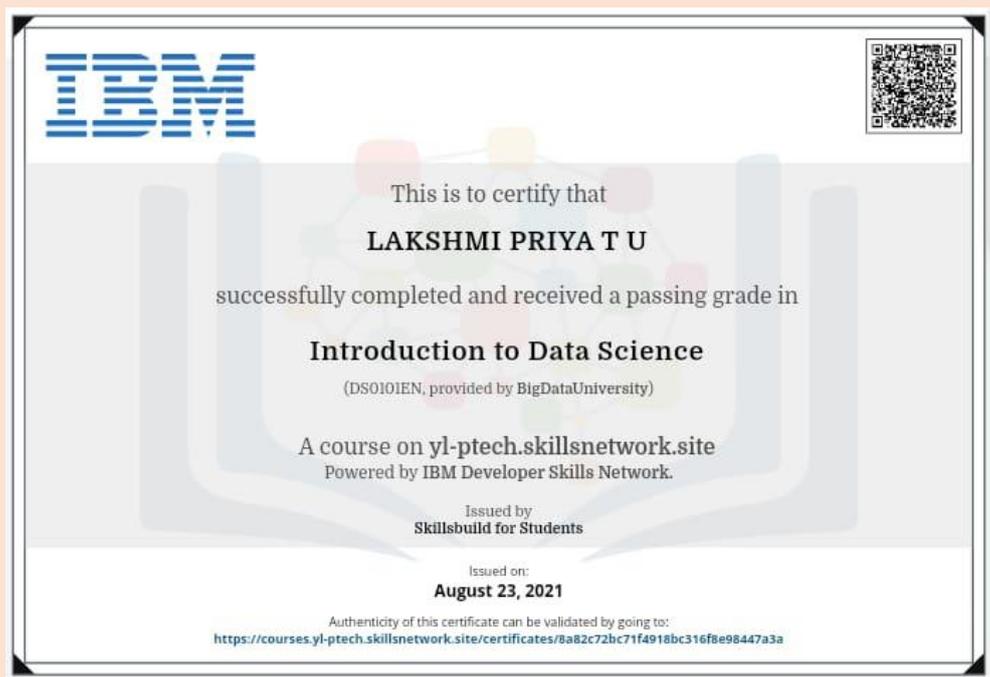
Technical Talk on "Importance of Software's in Civil Engineering"

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Student enrolment for certification courses

The Department encourages students to undergo MOOC Courses and enhances their skillset in various MOOC platforms.



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Academic toppers of the department



Amrutha M



Ananya S P



Deekshitha H V



Kirana M G

4TH YEAR TOPPERS



Harshitha B

3RD YEAR TOPPERS



Ashwini Raj

2ND YEAR TOPPERS

Do you Know this

Building Information Modelling (BIM) is a process supported by various tools, technologies, and contracts involving the generation and management of digital representations of physical and functional characteristics of places. This article discusses the diverse career opportunities in Building Information Modelling for engineers and architects. Building information models are data that can be extracted, transferred, or networked to support decision-making regarding a building or other built asset.

If a building looks better under construction than it does when finished, then it's a failure

Douglas Coupland

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