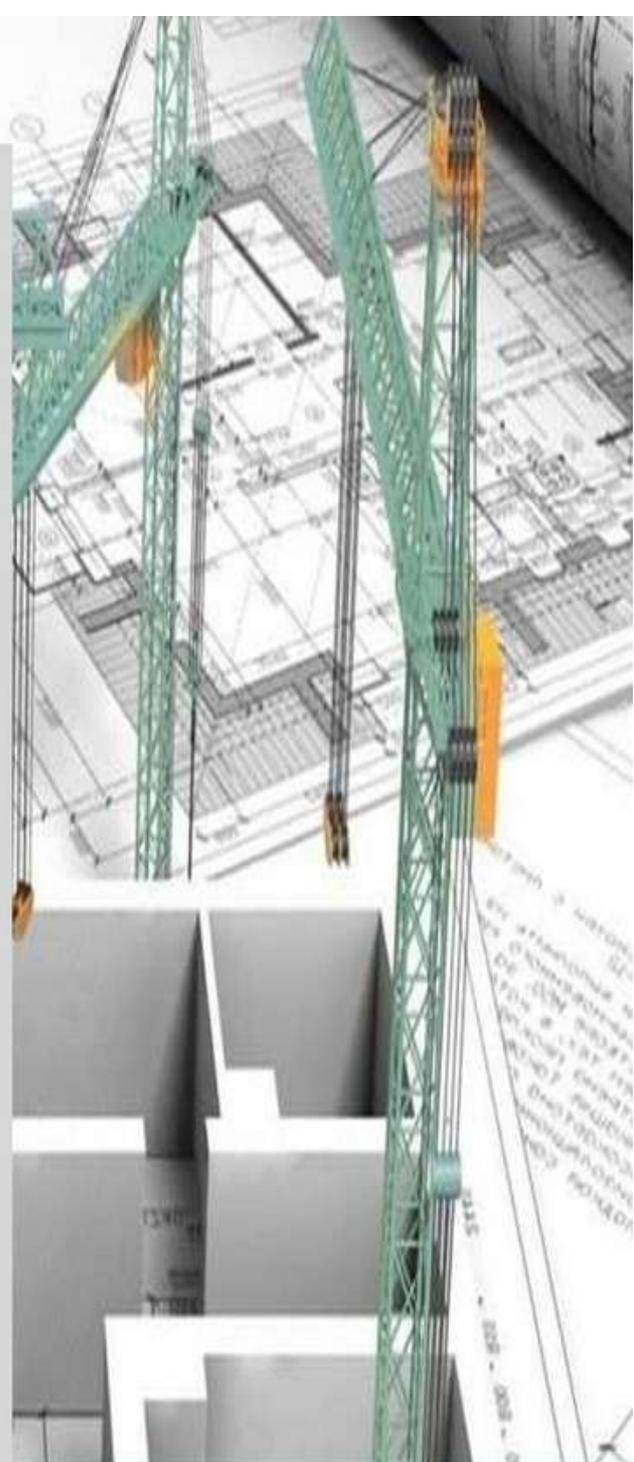


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DEPARTMENT OF CIVIL ENGINEERING



A J INSTITUTE OF ENGINEERING AND TECHNOLOGY, KOTTARA
CHOWKI, MANGALORE- - 575006

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. Shantharama Rai C
President, LMET



Prof. Vinod T D'Souza
HOD, CIVIL

I express my deep gratitude to the Management and the Principal for all their support in grooming of the Civil Department. The happenings of the department has been wonderfully penned down by the staff editor Mrs. Deeksha Anand and also Ms. Aashika Pai (4th year Civil) Mr. Swasthik Hegde (4th year Civil). I congratulate them and thank each and every one for their contribution at various levels.

EDITORIAL BOARD



Prof. Vinod T D'Souza
Chief Editor



Mrs. Deeksha Anand
Editor



Ms. Aashika Pai
Designer



Mr. Swasthik Hegde
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

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 involved to meet the global demands.

DEPARTMENT PSO's

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

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

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.

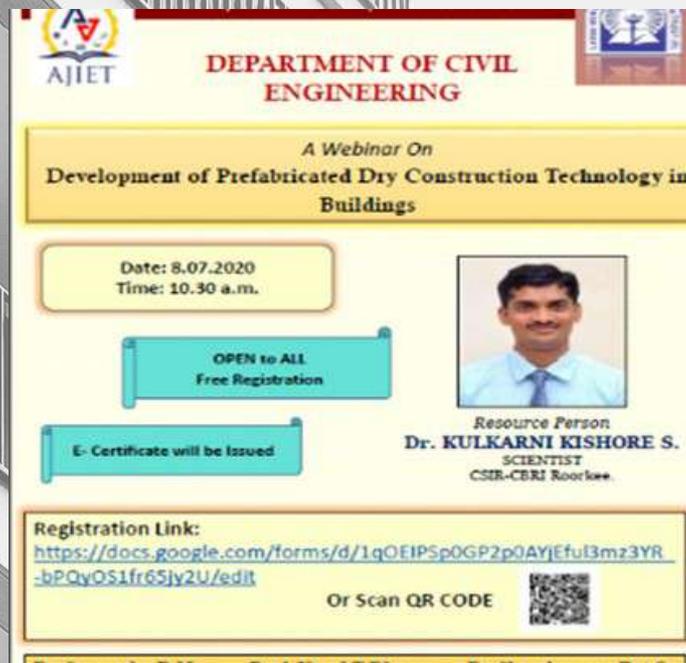
9.Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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

WEBINAR ON DEVELOPEMENT OF PREFABRICATED DRY CONSTRUCTION TECHNOLOGY IN BUILDINGS



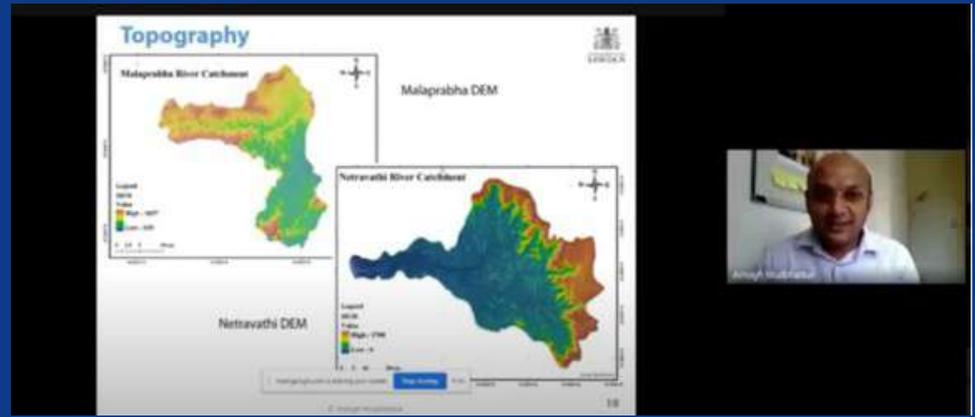
The poster is for a webinar titled "Development of Prefabricated Dry Construction Technology in Buildings". It is organized by the Department of Civil Engineering at AJIET, Mangalore, in association with CSIR-CBRI Roorkee. The webinar is scheduled for 08.07.2020 at 10.30 a.m. and is open to all with free registration. An e-certificate will be issued to participants. The resource person is Dr. Kulkarni Kishore S., a Scientist at CSIR-CBRI Roorkee. A registration link is provided: <https://docs.google.com/forms/d/1qOEIPSp0GP2p0AYJFfu3mz3YR-bPQyOS1fr65Jy2U/edit>. A QR code is also present for registration.

Department of Civil Engineering AJIET, Mangalore came up with a virtual initiative during the pandemic situation of COVID-19 and organized an online Webinar in association with CSIR-CBRI Roorkee on 08.07.2020. CSIR-CBRI Roorkee been vested with the responsibility of generating, cultivating and promoting building science and technology in the service of the country. The resource person is an expert scientist working on prefabricated construction method of construction of buildings at CSIR-CBRI Roorkee campus. Dr. Kulkarni Kishor Sitaram is an expert scientist in Dry-construction Technology in Building, prefab housing units with improved thermal performance, Zero Peak Energy Building, etc. The introduction to prefabricated construction was discussed initially for a problem specific case and by comparing various parameters involved in it. Types and size of prefabricated structures, method of applications were discussed. Their applications in RCC and Steel Structures, and feasibility in using as a composite construction were explained.

WHAT TWO DEGREES TEMPERATURE RISE MEANS TO OUR EARTH



More than 400 million people worldwide live with water scarcity.



WEBINAR ON CLIMATE CHANGE IMPACTS OF HYDROLOGY OF WESTERN GHAT RIVER CATCHMENTS

On the 18th of July 2020 a webinar was conducted from the Department of Civil Engineering. The speaker of the event Dr. Amogh Mudbhatakhal is a Post Doctoral fellow from the School of Geography and Lincoln centre for water and planetary health, London. The title of the talk delivered by him was “Climate change impacts of Hydrology of Western Ghat river catchments”. He discussed various Indian water resources scenarios and climate change for a large crowd of nearly 200 participants including UG students, Engineering faculty and research scholars from various Institutes.



The coral reefs around the world decline up to 99%.

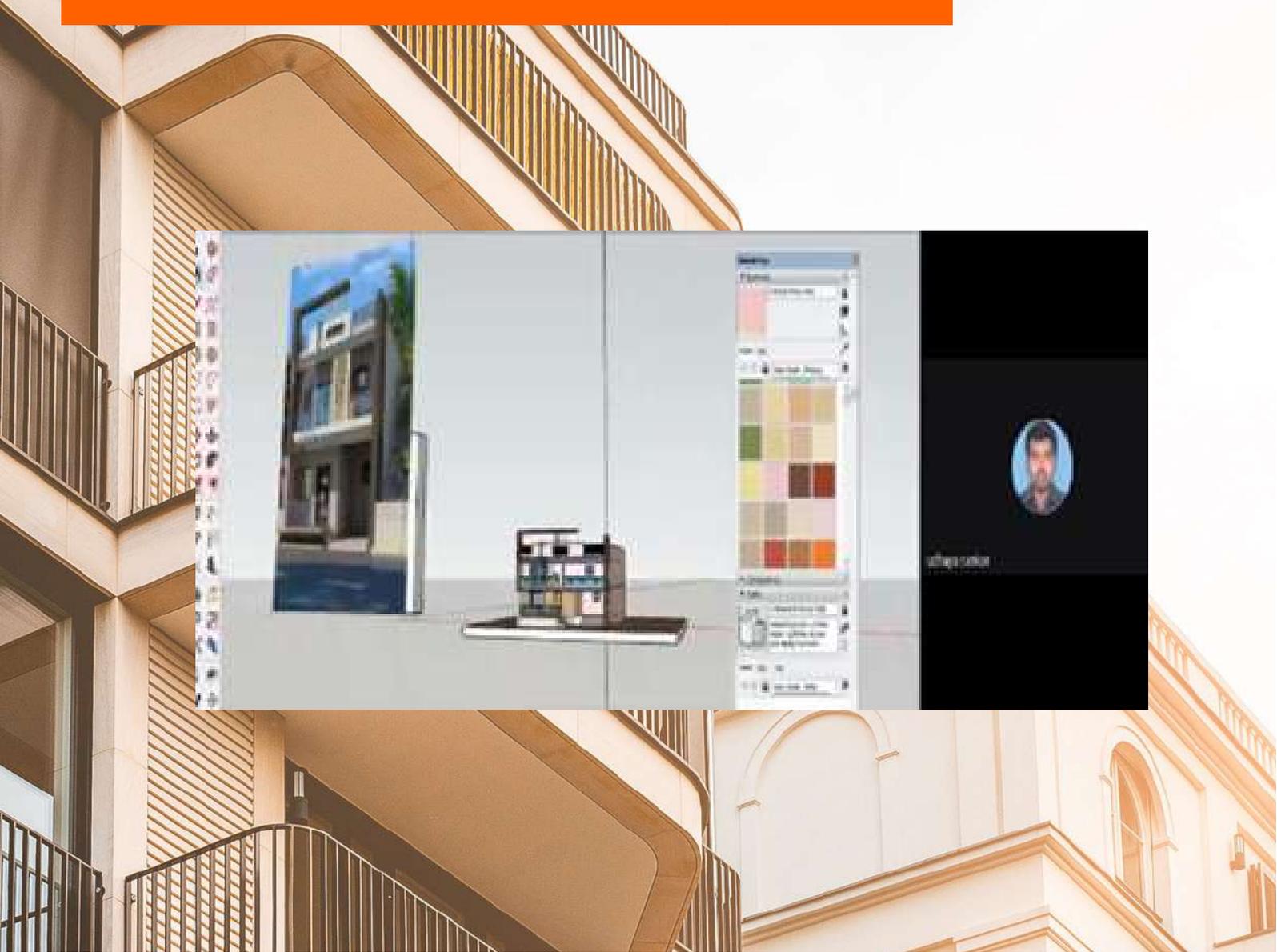


Sea levels rise by up to 46 cm and impact 30 to 80 million people.



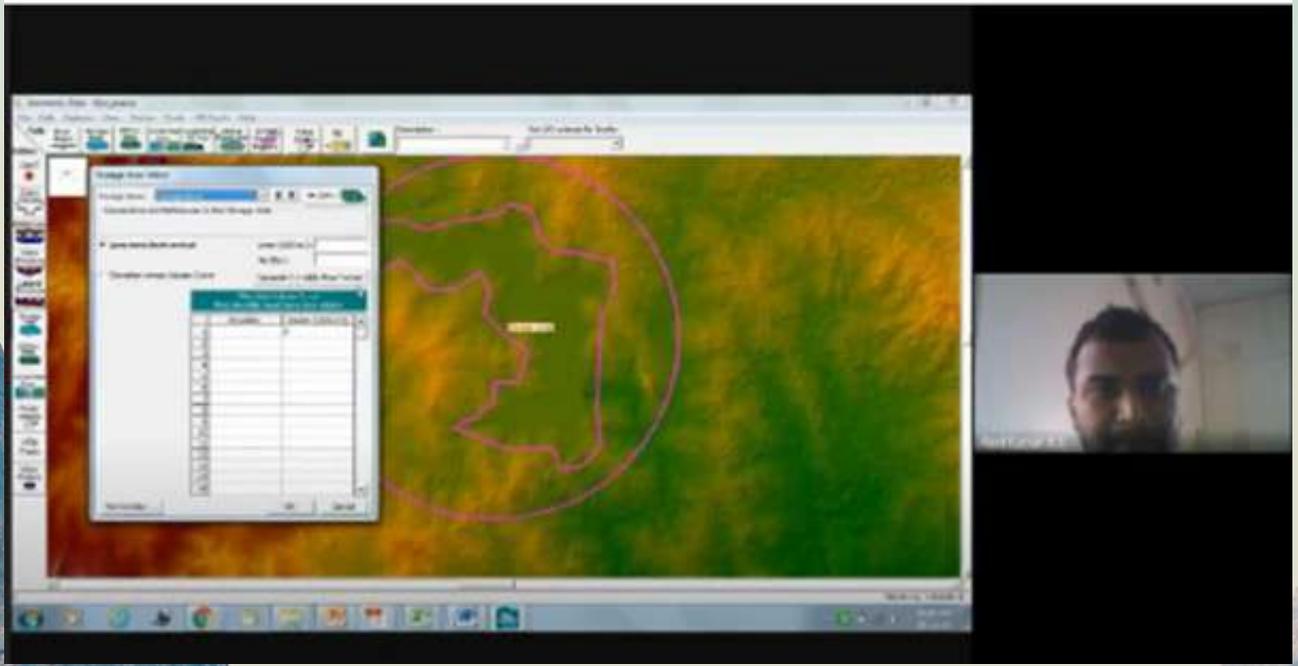
The earth loses 18% of insects, 16% of plants, 8% of vertebrates.

3D MODELLING SKETCH -UP



Mr. Ravi Kumar a Research officer presented a webinar on Dam break analysis using HEC-RAS model. This online webinar presentation firstly described the dam break in the aspects of theories and models. Break parameters prediction, the understanding of dam break mechanics, peak outflow prediction were shown as the essential for the dam break analysis, and eventually determined the loss of the damages. Secondly, as an application example, Foster Joseph Sayers Dam break was further modeled and analyzed using USACE Hydrologic Engineering Center's River Analysis System (HEC-RAS) model based on available geometry data.

WEBINAR ON DAM BREAK ANALYSIS USING HEC-RAS MODEL

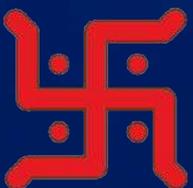


The Department of Civil Engineering in association with Department association TEAM RESILIENCE had conducted Webinar on “3D MODELLING ON GOOGLE SKETCH UP” from 11 August to 13 August 2020. The main objective of this training is to introduce participants, the basic commands and tools necessary for professional 3D drawing, using basic tool, component tool, complete building drawing using all necessary tools. Er. R Udayashanka, Structural consultant and software expert, was the Resource person and trainer for the Workshop.

AAYUDHA POOJA



Department of Civil Engineering celebrated the Aayudha Pooja religiously for the year 2020 on October 23RD , amidst of the COVID 19 situation in a simple manner following all the protocols of the season. Principal Dr. Shantharma Rai C, made his gracious presence along with various heads of the department, celebrated and wished prosperity and Success on the occasion of Dassera. Rituals were performed by the Pandit and distribution of Prasad was done strictly maintaining hygiene.



ACADEMIC TOPPERS



Mr. Pramith A Krishnan of 7th sem scored
8.67 SGPA in university exams



Ms. ANANYA KUDYADI of 5th sem scored
8.38 SGPA in university exams

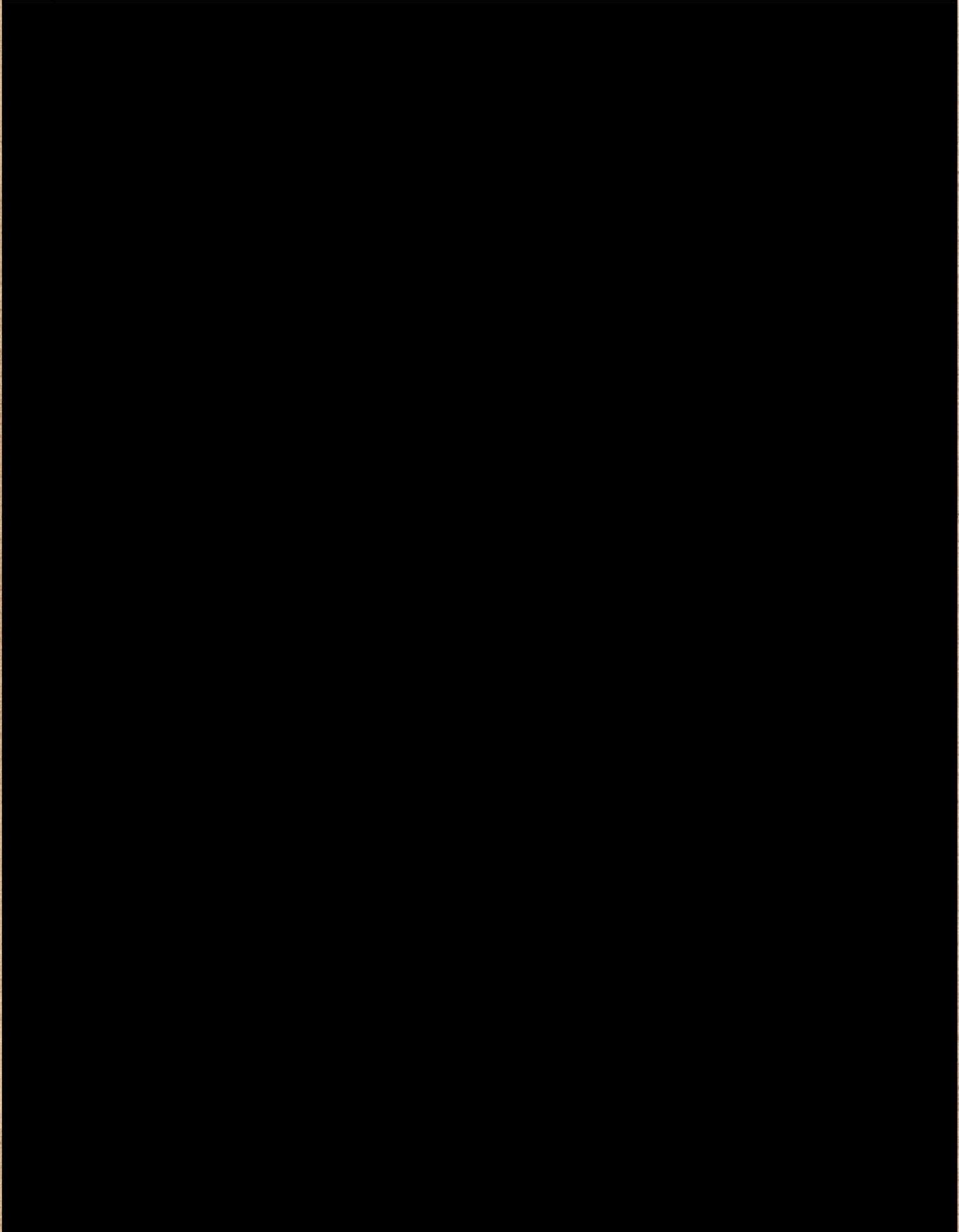


Ms. SHRIRAKSHA N CHITRAPUR of 3rd sem
scored 7.6 SGPA in university exams



Mr. U DHANVIN PADMANABHA of 1st sem
scored 7.8 SGPA in university exams

FACULTY ACHIEVEMENTS



FACULTY ACHIEVEMENTS

