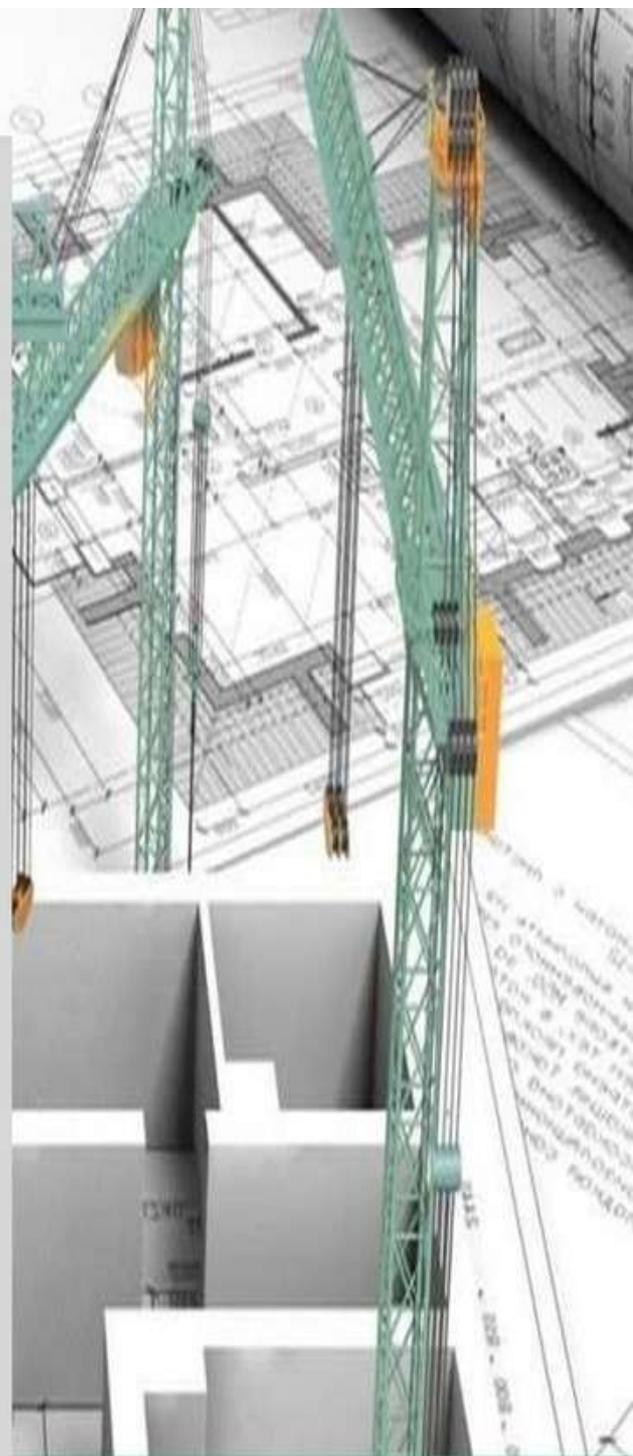


BENCHMARK
VOLUME 2, ISSUE 2
2021 JANUARY - JUNE 2021

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



Dr. Suman Kundapura
HoD, CIVIL

"YOU ARE WHAT YOU ARE BECAUSE OF WHAT YOU ARE
- BE YOUR BEST"

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. Pramith A Krishnan
Designer



Ms. Tejasvi
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

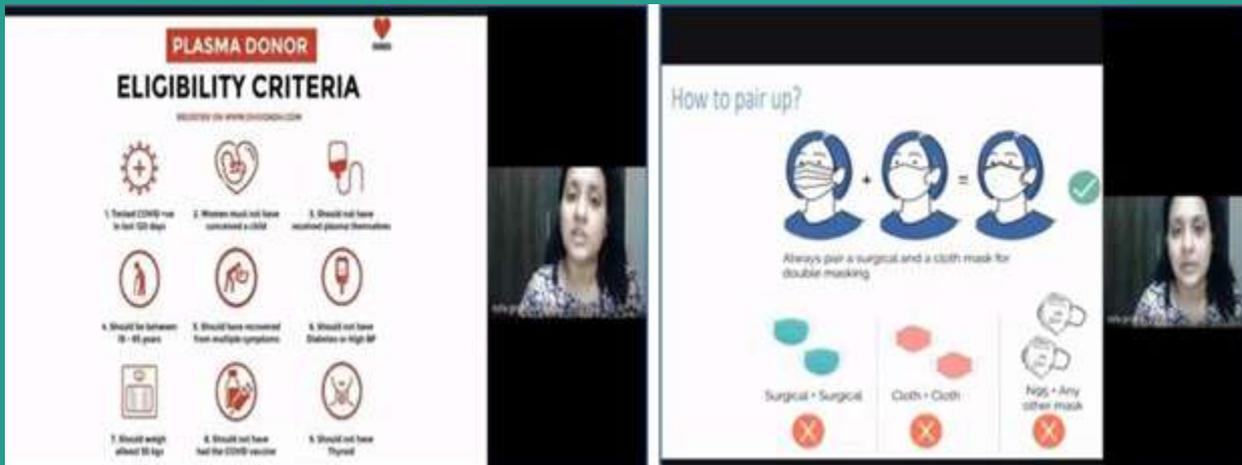
Engineering Graduates will be able to:

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.

Awareness of Covid-19 Second Wave



The Department of Civil Engineering in association with ECO-CLUB, had conducted Talk on “Awareness of Covid-19 Second Wave” on 07 may 2021. The main objective of talk is to introduce participants, Awareness of covid-19 2nd wave impact, Vaccination importance, and post care of covid-19. Dr. Nisha Girish was the Resource person for the talk. Dr. Nisha Girish who is working extensively on Covid-19

Solid waste management (on occasion of Vanamahotsava



(A Unit of Laxmi Memorial Education Trust)
NH-66, Kottara Chowki, Mangaluru, 575006

DEPARTMENT OF CIVIL ENGINEERING

In Association with **ECO CLUB**

On the occasion of
VANAMAHOTSAVA -2021
is
Organising a Webinar on
"SOLID WASTE MANAGEMENT"

Resource Person



Dr. Amiya Kumar Sahu
President,
National Solid Waste Association of India (NSWAI)
Vice Chairman Asia Pacific Waste and Recycling Allies, Singapore

Date : 02/07/2021
Time: 3.30pm
Link - meet.google.com/heg-aqsg-tdb
Contact : 9740726405

The Department of Civil Engineering in association with ECO-CLUB, had conducted Talk on “Solid waste management (on occasion of Vanamahotsava” on 2nd July 2021. The main objective of talk is to introduce participants, solid waste management, collection, transport disposal methods, health effect by this solid waste and how to manage this waste by Dr. Amiya kumar was the Resource person for the talk. Dr. Amiya kumar president of NSWAI and chairman Asia Pacific waste and recycling allies, Singapore.

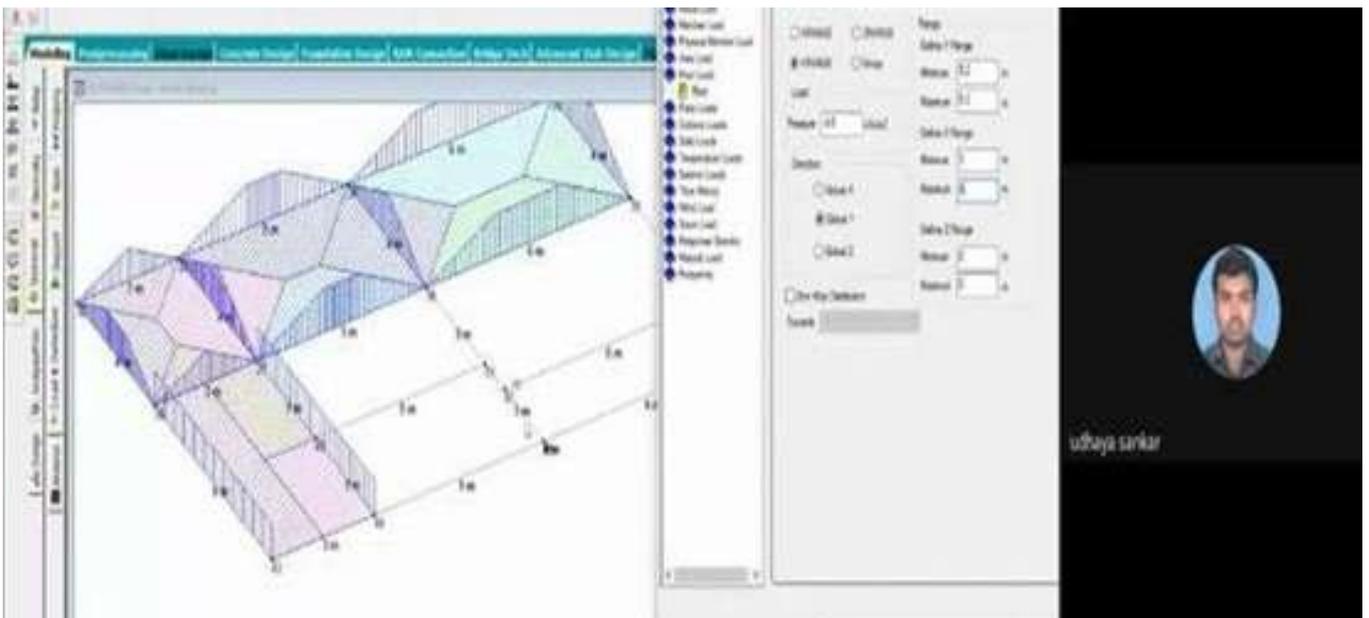


Plant Food

Growing your food can be rewarding, healthy, and fun. By growing even the smallest amount of your food, you are reducing your carbon footprint.



3DAY WORKSHOP STAAD PRO



The Department of Civil Engineering as a part of association work of TEAM RESILIENCE has successfully completed a 3 days' workshop "STAADPRO" from 7th June to 9th June 2021. The main objective of this workshop is to introduce participants, the basic commands and tools necessary for their professional Civil Engineering career, using basic tool, component tool, complete building drawing using all necessary tools. Er. R Udayashankara, Structural consultant and software expert, was the Resource person and trainer for the Workshop. The talk was well received by more than 120 participants.

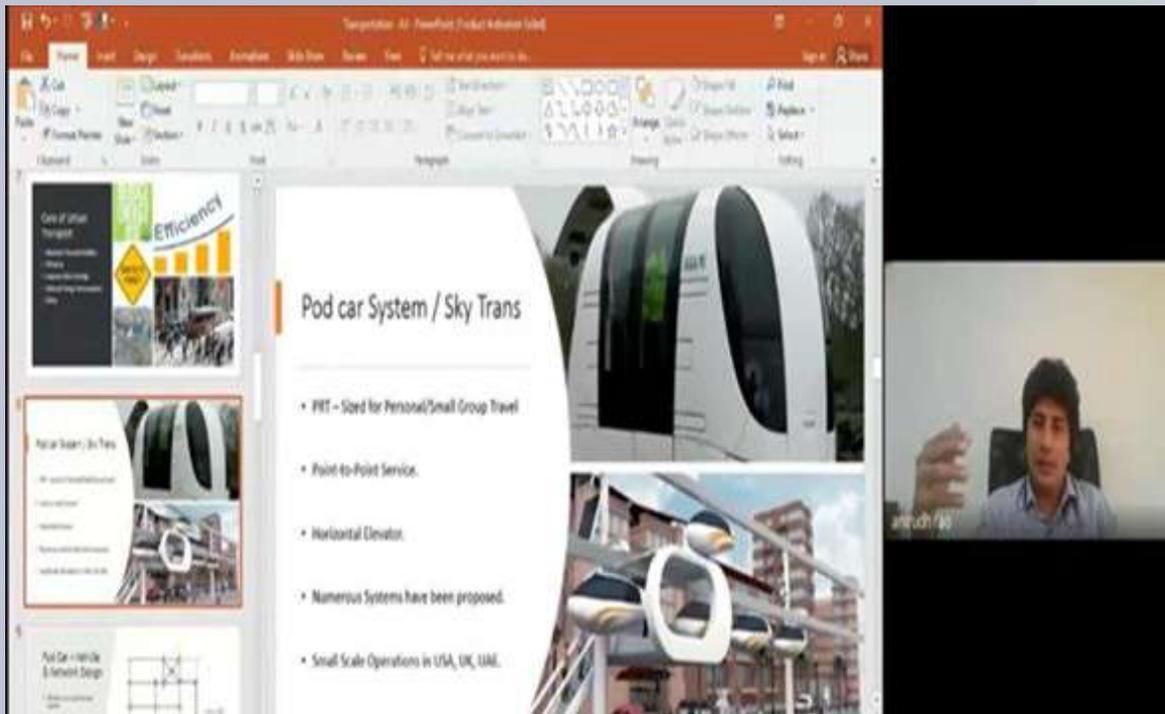
ENVIRONMENT DAY WEBINAR ON- WETLAND CONSERVATION AND FOOT PRINT REDUCTION



The Department of Civil Engineering as a part of association work of Eco club has successfully completed a student development and training program on the occasion of Environmental day “Wetland conservation and foot print reduction” On 11th June 2021. The resource person was Ms. Shashikala Iyer, Senior Manager, Wetlands conservation rivers, wetlands and water policy division, WWF, India. The main objective of this workshop is to create awareness of conservation of wetland water and balance the ecosystem using vegetation. The talk was well received by more than 120 participants

FACULTY DEVELOPEMENT PROGRAM

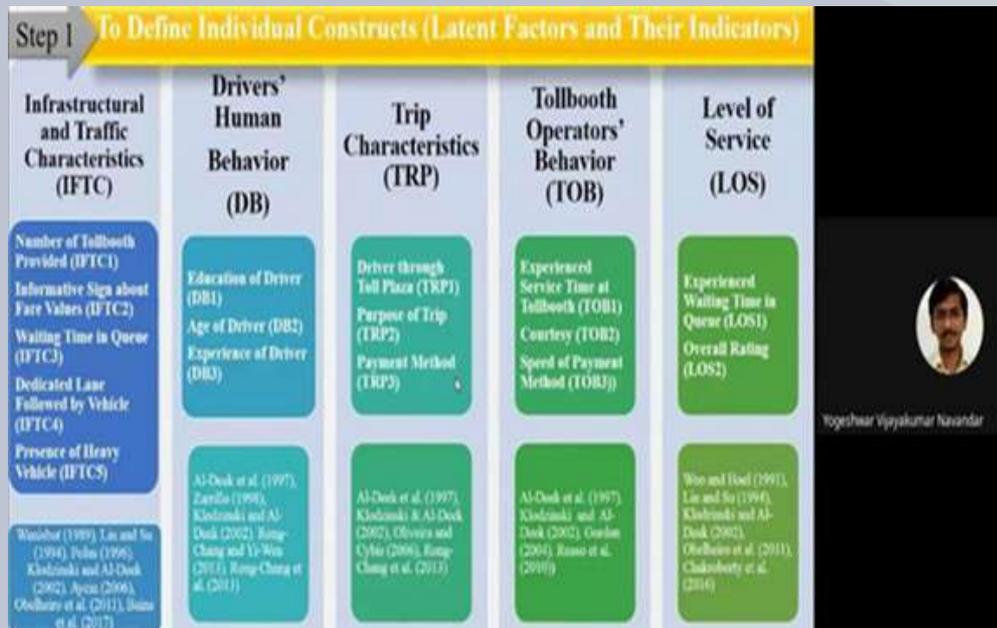
An exclusive FDP session of 5 days was organised by the department of Civil engineering on the topic 'CURRENT PRACTICES IN TRANSPORTATION ENGINEERING' scheduled on 15th - 19th June 2021



Day 1 talk on 15th June 2021 was 'Transportation Ripe for disruption' by Er. Anirugh Rao, Managing Director, Projectile, An Engineering Consultancy & Construction Firm. Mr. Anirudh Rao has done his M. Tech in Transportation Engineering from VTU, Belagavi and has a vast experience in planning, designing and execution of highway projects. In his talk he explained about the future technologies coming out in transportation engineering. He also gave a case study of the project 'Maria Park' in which they designed the road for 7 basements. With the total registrants of 182, a You tube live streaming of the programme was also made available for the students to gain knowledge from the company expert.

FACULTY DEVELOPEMENT PROGRAM

An exclusive FDP session of 5 days was organised by the department of Civil engineering on the topic 'CURRENT PRACTICES IN TRANSPORTATION ENGINEERING' scheduled on 15th - 19th June 2021



Day 2 talk on 16th June 2021 was "Application of OPM and SCM in Transportation Engineering" by Dr. Yogeshwar V Navandar, Associate Professor, Department of Civil Engineering, NIT- Calicut. Dr. Yogeshwar's was awarded with doctorate for the research work entitled "Traffic Flow Operational Analysis at Manually Operated Toll Plazas under Mixed Traffic Conditions". This talk has enlightenend the participants of the latest technics available for pavement design. He also threw light upon various aspects to be considered, Latent factors and their indicators. His profound knowledge on the topic has been highly appreciated by FDP attendees, which marked a success towards the closure of the FDP sessions.

FACULTY DEVELOPEMENT PROGRAM

An exclusive FDP session of 5 days was organised by the department of Civil engineering on the topic 'CURRENT PRACTICES IN TRANSPORTATION ENGINEERING' scheduled on 15th - 19th June 2021

Smart Travel Behavior

Middle East College

Data driven

Short-term

Medium-term

Long-term

Technology driven

Infrastructure driven

- How would accurate, reliable and timely multi-modal traffic information affect travelers' decision making processes?
- How would future technologies, such as autonomous self-driving vehicles, electric vehicles, multi-modal traffic information, massive and robust traffic control affect activity and mobility patterns?

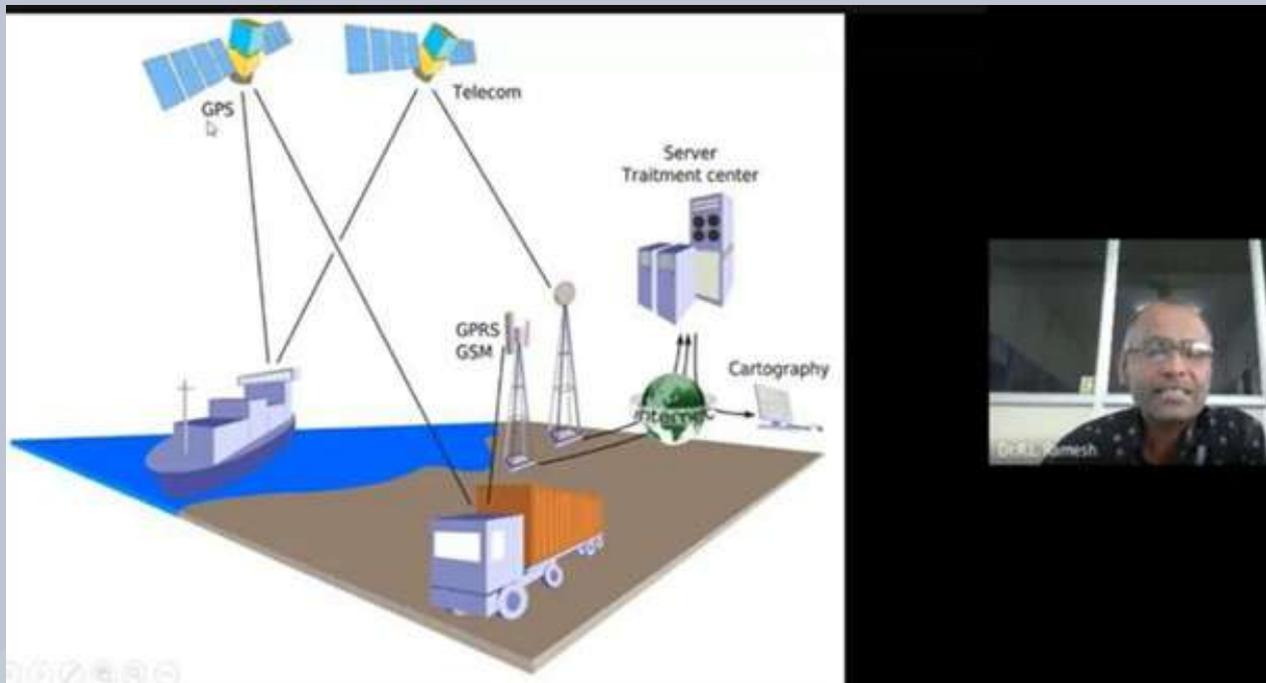
Siham FARRAG

Day 3 talk on 17th June 2021 was 'A Future for Transportation' by Dr. Siham G Farrag Senior Lecturer, Middle East College of Engineering, Sultanate of Oman. Dr. Siham has more than 10 years of research experience in the field of transportation and Traffic Engineering

This talk has enlightened the participants of the latest technology available for Smart Highways and Sensor based traffic management. Her profound knowledge on the topic has been highly appreciated by FDP attendees, which marked a success towards the closure of the third -day FDP sessions

FACULTY DEVELOPEMENT PROGRAM

An exclusive FDP session of 5 days was organised by the department of Civil engineering on the topic 'CURRENT PRACTICES IN TRANSPORTATION ENGINEERING' scheduled on 15th - 19th June 2021



Day 4 talk on 18th June 2021 was 'Intelligent Transportation System' by Dr. R L Ramesh, Professor and Head, Dept. of Civil Engineering, Don Bosco Institute of Technology, Bengaluru and Hon Secretary, ICI Bebgaluru Center . He has explained in detail about the intelligent transport system and how it can be implemented din future to solve thee traffic problems. With the total registrants of 182, a YouTube live streaming of the programme was also made available for the students to gain knowledge from the company expert.

FACULTY DEVELOPEMENT PROGRAM

An exclusive FDP session of 5 days was organised by the department of Civil engineering on the topic 'CURRENT PRACTICES IN TRANSPORTATION ENGINEERING' scheduled on 15th - 19th June 2021

The screenshot shows a presentation slide with the following content:

- Themes for asphalt paving**
- Intelligent material selection methodologies and designs that address **whole lifecycle** cost incorporating pavement management systems
- Towards **performance-related specifications** for materials and assets
- Energy efficient, **recyclable** and sustainable solutions
- Improvement in working conditions at paving sites
- Synergistic approach amongst all stakeholders

A Venn diagram with three overlapping circles is shown to the right of the text:

- Top circle: Bituminous suppliers
- Bottom-left circle: Asphalt and paving companies
- Bottom-right circle: Asset owners and highways departments

At the bottom of the slide, there is a small logo for 'SHELL' and a page number '7'. To the right of the slide is a video inset showing a man with glasses speaking.

Day 5 talk on 19th June 2021 was 'Evolution of Bituminous Technology – An Indian Scenario' by Mr. Sumit Gudesar, Associate Vice President, Tiki Tar & Shell India Pvt Ltd. Mr. Sumit has two decades of experience in the Construction sector and has commendable knowledge about the bitumen and its products. This talk has enlightened the participants of the latest technics available for pavement design. He also threw light upon various aspects of construction from normal to sub-zero climate scenarios.

First Graduation day



First graduation day of AJIET for the batch 2016-2020 was held on 19th Feb 2021 at AJIET seminar hall-3. Mr. Vasudev Kamath, Vice president and Head -Infosys Ltd, DC Mangalore was the chief guest for the program preside by Dr. A J SHETTY, President of Laxmi Memorial Educational Trust Mangalore. All the graduates were honoured with certificates and Medals.

Department farewell function



Department of civil engineering had organised “Farewell function” for batch (2016-2020) on 19.02.2021, Friday by Dr. Suman Kundapura. As it was the first ever batch, we tried to make this function memorable for our beloved students. Ms. Pooja D had hosted the event. The event was conducted as follows: Formal Welcome, Prayer song, HOD talk, Student experience, Faculty experience, Group dance, Group songs. Few games like musical chair, save your balloons and Cap game were conducted. The winners were offered with gifts.

University Secured 2nd rank proud moment for the Department



Department of Civil Engineering feels proud of student Ms. Ashika Pai for securing VTU 2nd Rank. She has been a good student throughout the course and has managed to get into higher studies at NITK, Surathkal for M Tech by research category. The department wishes her best in her future endeavors.

She belongs to the very first batch of AJIET and the entire batch of Civil Engineering students have successfully come out with flying colors.

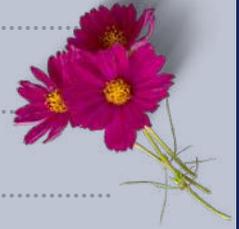
fflff8(B/l fO))(cc



Mr. Pramith A Krishnan of 8th sem scored 9.80 SGPA in university exams



Ms. ANANYA KUDYADI of 6TH sem scored 8.38 SGPA in university exams



Mr. DHANUSH J of 4TH sem scored 8.7 SGPA in university exams



Mr. U DHANVIN PADMANABHA of 2ND sem scored 8.0 SGPA in university exams



STUDENTS ACHIEVEMENTS

TWO PROJECT FROM STUDENTS OF CIVIL ENGINEERING HAVE BEEN
SELECTED FOR ANVESHANA 2021
TITLE: SUSTAINABLE AND SAFE RE-USE OF MUNICIPAL SEWAGE
SLUDGE FOR NUTRIENT RECOVER



The project focus on evaluation of innovative and available phosphorus recovery technologies using municipal sewage sludge or ashes from mono-incineration in comparison with traditional phosphorus recycling by land application of sewage sludge. The technical, operational and economic data as well as comprehensive ecotoxicological and plant-availability assessments provided the basis of comprehensive life cycle assessment and life cycle costing of phosphorus recovery processes and the agricultural valorisation route of the recovered materials. Complementing a market analysis, a policy brief and guidance document for policy makers and end-users shows suitable phosphorus recovery and recycling options with regards to regional conditions (structural and legislative) and illustrates selected case studies. Since recovery alone is pointless without subsequent valorisation of the material, it is very important to know the demand side perspective



STUDENTS ACHIEVEMENTS

TITLE : LOW COST HARVESTING POND



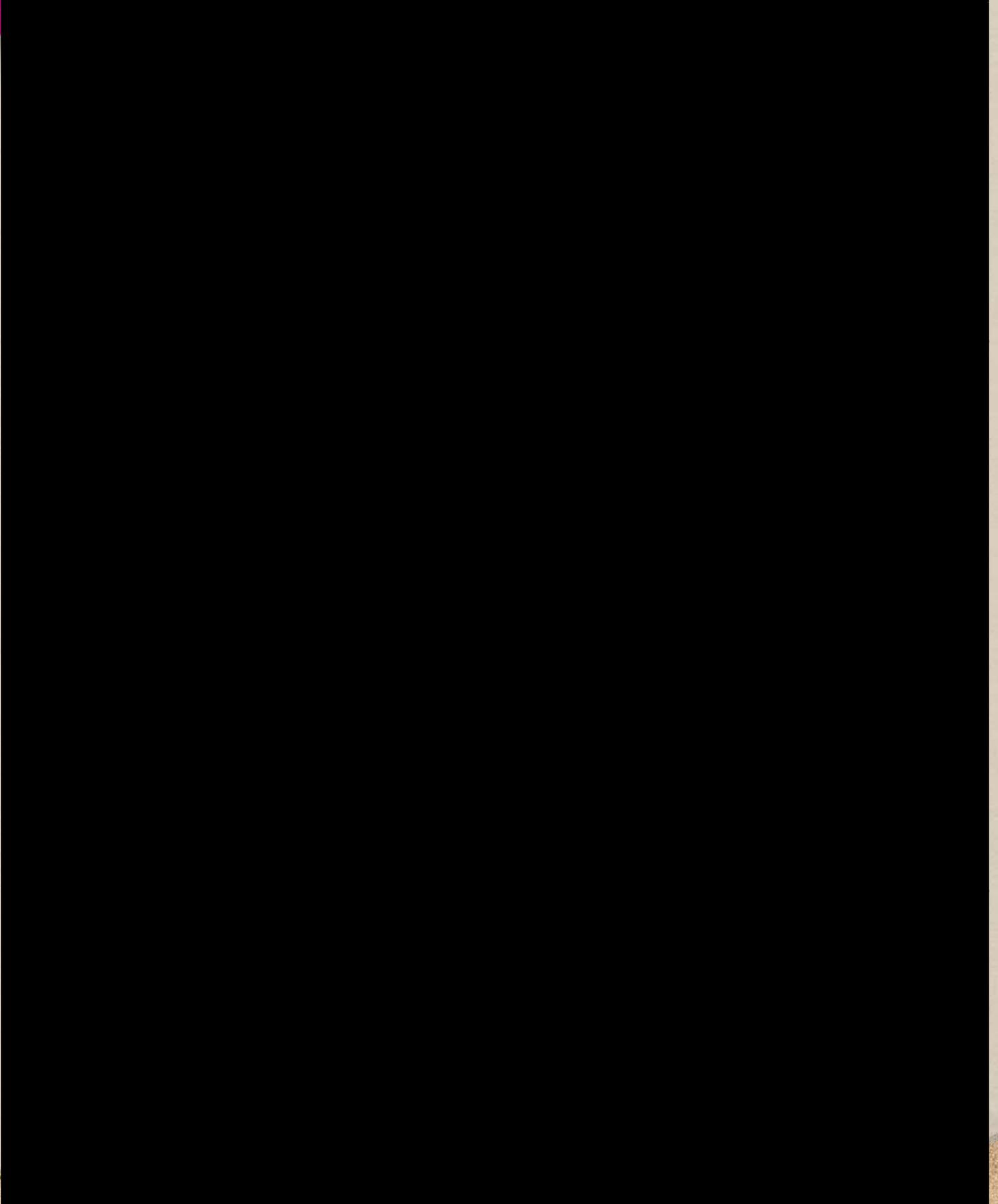
The performance characteristics of a proposed low cost water harvesting pond is studied in the current project. The innovation in the study is use of arecanut husk in the preparation of the gunny bags to side line the slopes of the water harvesting ponds. The arecanut husk is largely available in several parts of Dakshina Kannada as these trees are grown in the backyard of every house. Also, the tree thrives well in this region due to the well drained soils in the region. However, the harvest of arecanut, leaves behind large amount of arecanut husk which becomes a new sense to the farmer. Reusing this waste material could be a great way to reduce this waste. An innovative low cost water harvesting pond lined with these weaved Arecanut fibros material dipped in cement slurry is introduced in this project.



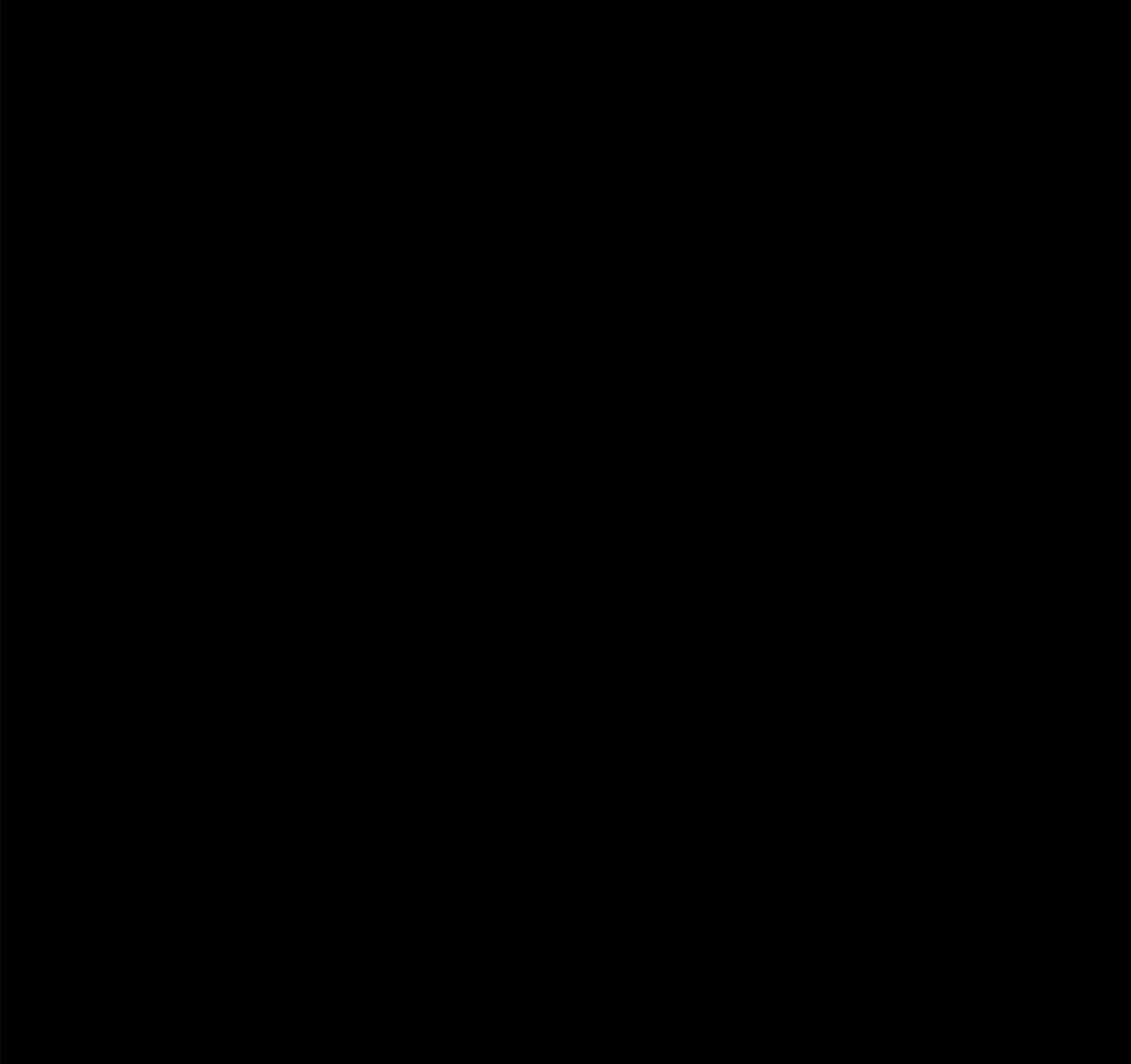
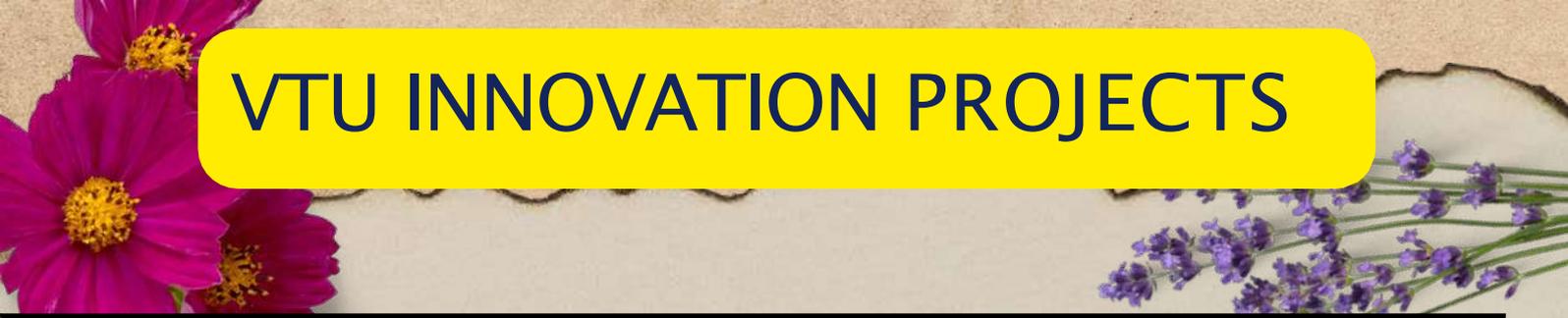


STUDENTS ACHIEVEMENTS

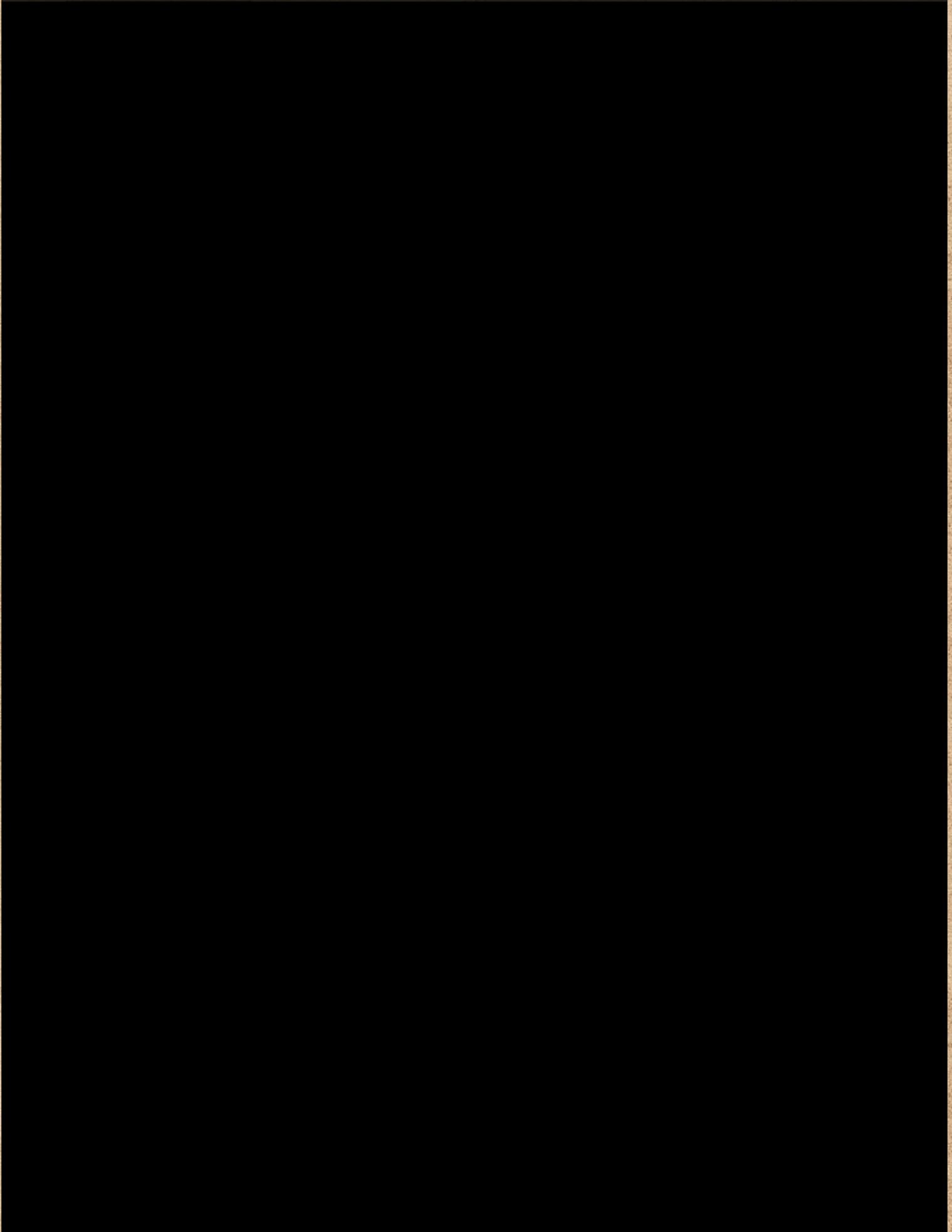
KSCST SANCTIONED PROJECTS



VTU INNOVATION PROJECTS



FACULTY JOURNAL PUBLICATIONS



PLACEMENTS

S.No.	Student Name	Company	Offered Pkg in LPA
1	Adarsh Jayan	Pin click Property Management Pvt Ltd	4.8
2	Josphin George	Pin click Property Management Pvt Ltd	4.8
3	Mohammed Muzaffal	Pin click Property Management Pvt Ltd	4.8
4	Pramith A Krishnan	Pin click Property Management Pvt Ltd	4.8
5	Sourav S Kumar	Alouj. A. L & Associates	4.8
6	Mallikarjuna G S	Pin click Property Management Pvt Ltd	4.8
7	Hussain Salman	Infosys	3.6

