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Editor's message

- Department of civil Engg organized three days technical skill development programme.
- Few students have contributed to the news letter in the form of technical article and thread art
- Clean India programme was organized in association with NCC,NSS,Nehru Yuva Kendra Sangatan and Tumkur University

Department of Information Science and Engineering

FDPs attended

Vani B V, Assistant Professor, Dept. of ISE has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Internet of Things (IOT) with Machine Learning & Artificial Intelligence**" from 13/09/2021 to 17/09/2021 at ITS Engineering College.

Prasanna Kumar M, Assistant Professor, Dept. of ISE had participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "**IoT & Cyber Security**" from 06/09/2021 to 10/09/2021 at Institute of Engineering & Management.

Department of Civil Engineering

Three days 'Technical Skill development programme' was organised in the Department of Civil Engineering for 6th-semester students from 26/08/21 to 28/08/21. The programme was coordinated by Mr Guruprasad T N, Assistant Professor of Civil Engineering Department.

The programme began by watering the sapling i am the resource person Er. Guruprasad Chinnari, Proprietor and Structural Consultant of Aryavartha Design Consultants, Tumakuru, and



Session handled by Malleesh H B Retired Executive Engineer Water Resource Departement, Tumakuru



Inauguration of 3 Days Technical Skill Development Programme on 26.08.2021

other dignitaries of the function it was followed by the interactive session by resource person with students. The second session was handled by Prof.S R Ramesh, senior Professor of the department. second day of the program was started with an expert talk by Er. Tribhuvan M Proprietor, Srushti Consultants, Tumakuru and followed by the session of eminent and most experienced resource person Er. Malleesh H B Retired Executive Engineer Water Resource Department, Tumakuru.

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Department of Civil Engineering

Continued 01>>

The first session was handled by Dr TV Mallesh, Professor and Head of the department, on the last day. The final session was engaged by 2005 batch alumni, Ms. Renu Sambashivaiah, a Senior Quantity Surveyor at Khatib and Alami Engineering Consultants Bangalore.

The programme was completely interactive session with the students. The programme concluded with a valedictory function by distributing the certificates to the participants. The function was concluded with a vote of thanks by Mr Guruprasad T N.

Faculty Achievement

Mrs. Roopa M, Assistant Professor, Department of Civil Engineering, Completed 4th Doctoral meeting of Ph.D of SSAHE University under the Guidance of Dr. Venugopal H on 1st September 2021.

FDP/Workshops attended by faculty members

1. Mr Sahana T S, Assistant Professor, Department of Civil Engineering attended 5 days faculty development programme from 24/08/2021 to 28/08/2021 on "Structural Dynamics And Earthquake Resistant Design of Structures", organised by Government College of Engineering-Salem university in association with ATAL-AICTE.

2. Mr Pradeep A R, Assistant Professor, Department of Civil Engineering attended 5 days faculty development programme from 30/08/2021 to 03/09/2021 on... "Design and Construction Practices of Bridges", organised by MITE, Moodbidri, Mangalore.

3. Mrs. Roopa M, Assistant Professor, Department of Civil Engineering, participated in the "webinar held on 6th September, 2021 on the theme STI Institutions for "Atmanirbhar Bharat" on India celebrates its 75th year of Independence through "Azadi Ka Amrit Mahotsav". This program is organized in association with the Department of Science and Technology, Government of India under State Science & Technology Programme (SSTP) Division.

Publications

1. Abilash K E, Assistant Professor, Department of Civil Engineering published journal titled "Experimental Investigation of Stabilization of Silty Sand" in SPRINGER Indian Geotechnical Conference 2020, Vishapatnam chapter. Vol 4, Page No 281-291, ISSN 2366-2557, ISBN 978-981-16-2259-5.

2. Roopa M., Lakshmi K.B., Venugopal H published Lecture Notes titled "Dynamic Analysis of Geodesic Dome Structure" in Sustainability Trends and Challenges in Civil Engineering, vol 162. Springer (Scopus indexed), Singapore.



Session handled by Guruprasad Chinnari, Structural Consultant Aryavartha Design Consultants, Tumakuru

Student Article

A DAY TO REMEMBER

Engineer's day 2021: India celebrates 160th birth anniversary of sir M V.

Mokshagundam Vishveshvaraih was one of the greatest nation builders who contributed to the field of engineering and education.

Since 1968, India has been celebrating engineers day annually on this special day is observed to acknowledge Bharat Ratna 'Vishveshvaraih' who was regarded as the 'FATHER OF MODERN MYSORE'. Sir M V played a vital role in constructing hydro power projects, dams and reservoirs in India. Not just that, he also supervised the construction of various architectural sites as chief engineer including the flood protection system of Hyderabad and Krishna Raja Sagara dam in Karnataka.

Sir M V was known as man with high principle. Engineers play a vital role in making our planet better and technologically advanced.

■ **Revathi S V**

7th sem, Dept. of Civil Engineering



Valedictory function of 3 Days Technical Skill Development Programme on 28.08.2021 After completion of session by Alumni of Civil Engineering Department Renu Sambashivaiah

Department of Electronics and Communication Engineering

1. Dr.Suresh M, Professor, Department of Electronics and Communication Engineering, participated & completed successfully AICTE Training and Learning (ATAL) Academy **Online Elementary FDP on "AI Enabled IoT Networks" from 13/09/2021 to 17/09/2021 at Adi shankara Institute of Engineering and Technology.**

2. Dr.M.C.Chandrashekhar, Professor, Department of Electronics and Communication Engineering, participated in 5-Day FDP on **"Digital VLSI Design and Verification"** organized by Department of ECE, Bangalore Institute of Technology in association with Entuple Technologies and IEEE-BIT CAS from 23rd to 27th August 2021.

3. Mr. Praveen M, Assistant Professor, Department of Electronics and Communication Engineering, participated in 5-Day FDP on **"Digital VLSI Design and Verification"** organized by Department of ECE, Bangalore Institute of Technology in association with Entuple Technologies and IEEE-BIT CAS from 23rd to 27th August 2021.

4. Mrs. Sharada Guptha M N, Assistant Professor, Department of Electronics and Communication Engineering, Co-ordinated 3 days' workshop on **"Django web development"** organized by SSIT-IEEE student chapter, from Sep 18th to 20th 2021.

5. H. Akshata Shenoy (18EC026), VII semester "A" section student wrote a article On **"Silent sound technology"**.

6. Placement details

"Silent sound technology"

The **'Silent sound technology'** is a perfect solution for those people who have lost their voice but wish to speak on mobile phones. This technology helps to detect every lip movement and converts the



electrical pulses into sounds signals and sends those signals avoiding the surrounding noise which may cause disturbance. This is going to be a revolution for those who have lost their intensity

to speak. The main aim of 'Silent Sound' technology is to notice every movement of the lips and convert them into sound so that the information can be transferred in audio form, which could allow people to make silent calls without bothering about other people.

Rather than making any sound, the handset will transfer the movements your mouth makes which will measure the muscle activity with the help of that handset then convert this into audio speech that the person can hear on the other end of the call on phone. So, it reads your lips. This new technology will be very helpful whenever a person loses his voice while speaking and it also allows people to make silent calls without disturbing others. This technology can also be used in the military sectors for sharing secret matters with other people.

The word Cell Phone has become greatest buzz word in Cellular Communication industry. There are lots and lots of technology that tries to reduce the Noise pollution and make the environment a better place to live in.

This Silent Sound Technology will put an end to Noise pollution. Just think you are in a movie theatre or noisy restaurant

or a bus etc. where there is lot of noise around is big issue while talking on a mobile phone. But in the future this problem is eliminated with "silent sounds", a new technology that transforms lip movements into a computer-generated voice for the listener at the other end of the phone.

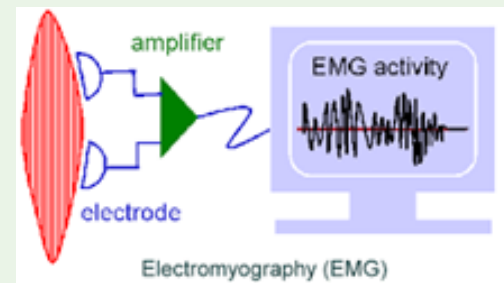
It is a technology that helps people to transmit information without using vocal cords. This technology aims to notice lip movements & transform them into a computer generated sound that can be transmitted over a phone.

NEED OF SILENT SOUND TECHNOLOGY

Silent Sound Technology will put an end to embarrassed situation like

- A person answering his silent, but vibrating cell phone in a meeting, lecture or performance, and whispering loudly, I can't talk to you right now.
- In the case of an urgent call, apologetically rushing out of the room in order to answer or call the person back.

METHODS: Silent Sound Technology is processed through some ways or methods Like... **Page 4>>**



Electromyography (EMG)

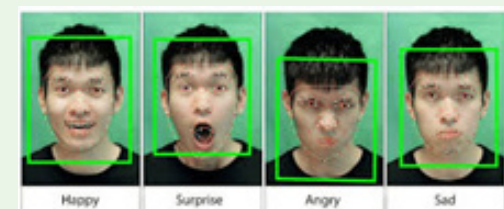
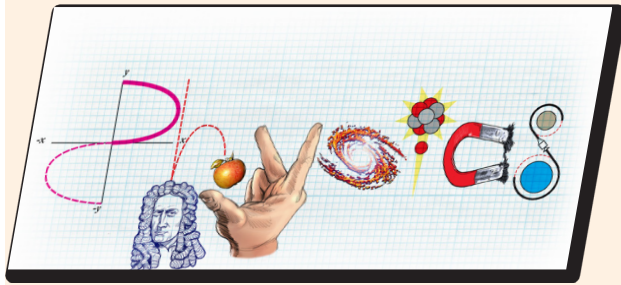


Image Processing

Department of Physics



Dr. M. Nagaraja and Sushma Prashanth: A research paper entitled “Structural, Electrical and Dielectric Studies on Novel Chitosan/Polyaniline/Molybdenum-trioxide Hybrid Nanocomposites” accepted for publication in SCOPUS indexed journal “Polymer Science” published by Springer.

Dr. M. Nagaraja, Associate Professor, is a reviewer for the international conference “IEEE Bombay Section Signature Conference (IBSSC-2021)” which will be held on November 18-20, 2021.

Department of Electronics and Communication Engineering

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Electromyography (EMG)

Electromyography (EMG) is a technique for evaluating and recording the electrical activity produced by skeletal muscles. EMG is performed using an instrument called an electromyography, to produce a record called an electromyogram.

An electromyography detects the electrical potential generated by muscle cells when these cells are electrically or neurologically activated. Electromyography (EMG) is a technique for evaluating and recording the electrical activity produced by skeletal muscles. The signals can be analysed to detect medical abnormalities, activation level, and recruitment order or to analyse the biomechanics of human or animal movement.

IMAGE PROCESSING:

The simplest form of digital image processing converts the digital data tape into a film image with minimal corrections and calibrations. Then large main-frame computers are employed for sophisticated interactive manipulation of the data. In electrical engineering and computer science, image processing is any form of signal processing for which the input is an image, such as a photograph or video frame; the output of image processing may be either an image or, a set of characteristics or parameters related to the image.

APPLICATIONS:

- Helping people who have lost their voice due to illness or accident
- Telling a trusted friend your PIN number over the phone without anyone eavesdropping assuming no lip-readers are around.

- Is applied in Military for communicating secret/confidential matters to others.

CONCLUSION:

Thus Silent Sound Technology is one of the recent trends in the field of information technology which can implement “Talking Without Talking”.

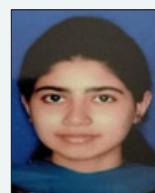
It will be one of the innovation and useful technology and in mere future this technology will be use in our day to day life.

Rather than making any sounds, your handset would decipher the movements your mouth makes by measuring muscle activity, then convert this into speech that the person on the other end of the call can hear. This technology is mainly done to make disabled to speak and live a normal life like the way others do.

The following students got placed for respective company



Name: Punith Vibhuti
USN: 17EC075
Company placed: BYJU'S
PACKAGE: 10 LPA



Name: Payal R Sulakhe
USN: 17EC065
Company placed: TCS & Tata Communications Ltd
PACKAGE: 3.6LPA & 2.8 PLA



Name: Manoj Kumar M S
USN: 17EC123
Company placed: Accord Global Technologies Pvt Ltd
PACKAGE: 3.6 LPA



Name: Bindushree K M
USN: 17EC021
Company placed: INFOSYS
PACKAGE: 3.5LPA



National Cadets Corps



TUMKUR

6/4 COY, National Cadets Corps, SSIT, Tumkur-05
75 years of India's Independence
Clean India Programme-21
5-10-2021 (Tuesday)



Report on the activities conducted

In association with NYK, Tumkur , NCC Clean India Programme-21 was organized on 5-10-2021 (Tuesday) at DC Office premises, Tumkur. The programme was inaugurated by Sri. Patil Yalagouda Shivanagouda, Deputy Commissioner, Tumkur District.

He said that Swachh Bharat Abhiyan is the most significant cleanliness campaign by the Government of India. It is the responsibility of the citizens to keep themselves and their surrounding clean and hygienic.

It also brings good and positive thoughts in the mind which slows down the occurrence of diseases. He also launched the clean India poster and flagged off the programme.

Lt.Dr.H.V.Jayaprakash, NCC Officer, SSIT, SSAHE, Dr.B.S.Ravikiran, NSS Prog Coordinator, District NYK Officer, Dr.Mounesh Rao, NSS Prog Coordinator, Tumkur University, and nearly 170 NYK, NCC and NSS Volunteers were present on this occasion. Later the volunteers cleaned the either side of Amanikere road. Sri Ramanagara, Tumkur.

Lt.Dr.H.V.Jayaprakash
6/4/COY,NCC,SSIT
SSAHE,TUMKUR-05



Dr.M.S.Raviprakash, Principal, SSIT spreading the message for clean India through poster campaign



Clean India posters in college notice board

Photo Gallery News paper Clips

ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಡಿಸಿ ಜಾಲನೆ

ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮ : ಡಿಸಿ ಪಟ್ಟಣದಲ್ಲಿ ಕಚೇರಿ ಮುಂಗಡ ಮಂಗಳವಾರ ಛಾತ್ರ ಸಂಕಲನ ಕೇಂದ್ರ ಯುಜಿ ಸಿಎಸ್ ಸಿಎಸ್ ಕ್ರೀಡಾ ಸಭೆಯು ಜಾರಿ ಕೆಲಸ ಯುಜಿ ಕೇಂದ್ರ ಸಭಾಂಗಣದಲ್ಲಿ ಆಯೋಜಿಸಿ 'ಸ್ವಚ್ಛ ಭಾರತ' ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು.

ಈ ಸಂದರ್ಭದಲ್ಲಿ ಸಭೆಯ ಯುಜಿ ಕೇಂದ್ರ ಪಟ್ಟಣ ಯುಜಿ ಕೇಂದ್ರ ಪರಮ ಶ್ರೀಮತಿ ವಾಸುಕಿ, ಪ್ರಾಚಾರ್ಯ ವಾಸುಕಿ ಅವರ ಪ್ರಾಸ್ತಾವಿಕ ಉಪನ್ಯಾಸ ನಡೆಯಿತು. ಈ ಸಂದರ್ಭದಲ್ಲಿ ಡಿಸಿ ಜಾಲನೆ ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು. ಡಿಸಿ ಜಾಲನೆ ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು.

ನಮಸ್ಕರಣೆ ಮತ್ತು ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು. ಡಿಸಿ ಜಾಲನೆ ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು.

ಸಂಖ್ಯೆ-29 ಸಂಖ್ಯೆ-344 RNI no. 58 202/89 P.R.NO: L2/RNP ಬುಧವಾರ 06 ಅಕ್ಟೋಬರ್

'ಸ್ವಚ್ಛ ಭಾರತ' ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳಿಂದ ಚಾಲನೆ

ತುಮಕೂರು, ಅ.5- ನಗರದ ಪಟ್ಟಣದಲ್ಲಿ ಕಚೇರಿ ಮುಂಗಡ ಮಂಗಳವಾರ ಛಾತ್ರ ಸಂಕಲನ ಕೇಂದ್ರ ಯುಜಿ ಸಿಎಸ್ ಸಿಎಸ್ ಕ್ರೀಡಾ ಸಭೆಯು ಜಾರಿ ಕೆಲಸ ಯುಜಿ ಕೇಂದ್ರ ಸಭಾಂಗಣದಲ್ಲಿ ಆಯೋಜಿಸಿ 'ಸ್ವಚ್ಛ ಭಾರತ' ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು.

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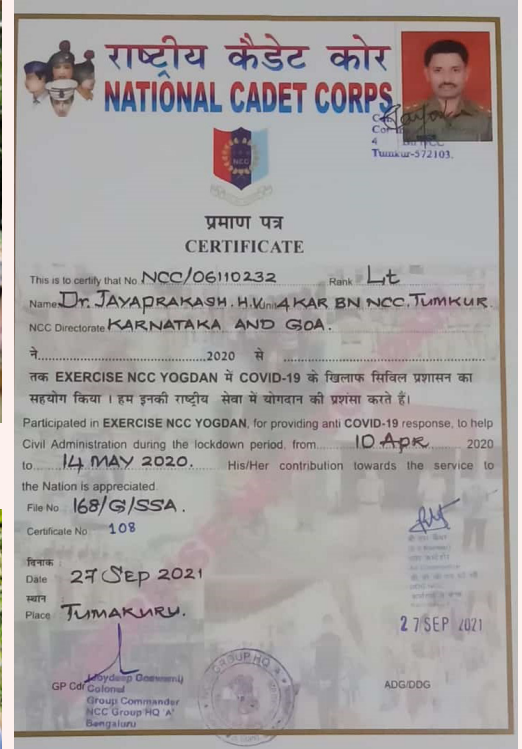
ನಮಸ್ಕರಣೆ ಮತ್ತು ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು. ಡಿಸಿ ಜಾಲನೆ ಸ್ವಚ್ಛ ಭಾರತ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅಧಿಕಾರವನ್ನು ನೀಡಿ ಪ್ರಾರಂಭಿಸಿತು.



National Cadets Corps



Volunteers collecting the single use plastics



NCC YOGDAN and anti COVID-19



Deputy Commissioner inaugurating the programme

Department of IEM



Dr.S.N.Lakshminarasimhan, Prof & HoD and Dr.B.S.Ravikiran visited SA Industries, Sunkadakatte, Bangalore to discuss about students project work and MOU

Department of Medical Electronics

I. VGST Approval:

VGST has approved to grant an amount of Rs. 20 Lakh for the project titled “Cyber Security Center of Excellence” proposed by Dr. Srinidhi G A as Principal Investigator.

II. Papers Publications:

1. Mrs. Ashwini K has published a paper on “User Authentication and Validation” in Tourkish Online Journal of Qualitative Inquiry, volume 12, Issue 3, July 2021.

2. A paper titled “ECG Biometric Authentication- A Comprehensive Survey” by Mrs. Latha K under the guidance of Dr. Raju A S has been accepted to be published in SSAHE journal of Interdisciplinary Research.

III. Workshops/ Webinars/ FDP’s attended/ Conducted:

1. Mrs. Ashwini K has attended a a STTP on : Recent Trends, Research and Challenges in IoT Applications” held during 28/06/2021 to 03/07/2021 organised by Vidyavardhini’s College of Engineering and Technology, Vasi Road, Palghar, Maharashtra.

2. Mrs. Ashwini K has attended a a STTP on “Embedded System Design” held from 14th June to 19th June 2021 held in K. C. College of Engineering and Management Studies and Research, Thane.

3. Dr. Guruprasad was a Resource Person for the workshop on “Open Source Tools for Lab Courses” from 23/09/2021 to 28/09/2021 by the Department of Electronics and Communication, SSIT, Tumkur.

IV.MoU:

1. The department had a MoU with Sri Siddhartha Medical College and Hospital in the month of September 2021.

2. The department had a MoU with Aspire R & D Center, Tumkur in the month of September 2021.

V. Off-Campus Placement:

1. Ms. **Varsha T G** of 2017-21 batch has been placed in Lido Learning Pvt. Ltd., Bangalore.



2. Mr. **Saidheeraj Yenegapati** of 2017-21 batch has been placed in GE Healthcare, Bangalore.



VI. Internship:

1. Ms. Ramitha K G D, Ms. Suman Mohan, Ms. Sanjana Priya and Ms. Preethi E Hombale are doing internship provided by IBSC in association with AMTZ, Vizag, Andhra Pradesh.

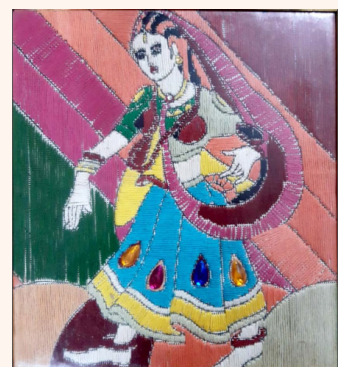
VII. Other Activities:

Thread Art

Thread Art By:

Sahana B N

7th Sem, MLE.



Department of Mathematics



**Dr. Venkanagouda,
M. Goudar,**
HOD Department of Mathematics

a talk on “**Graph Theory and Its Applications**” by Dr. Venkanagouda, M. Goudar, Professor and Head, Department of Mathematics. He delivered two lectures as a resource person to the Participants of UGC sponsored oth Refresher Course in Mathematical Science Organized by UGC-Human Resource Development Centre University of Mysore of Mysore 02/09/2021 – 03/09/2021. the lecture includes various applications in wireless Switching networks, ADOC networks.

Details of the Speakers

Sl.No.	Details of the Speaker	Topic	Date
1	Dr. Asha K R Asst. Prof, Dept. of MCA	Efficacy for the Improvement of Node Efficiency in the Radiation Affected Area of WSN	23/07/2021
2	Dr. Shyla M K Asst. Prof, Dept. of ECE	Image Stegnography Approach for Secure Data Communication	30/07/2021
3	Dr. Savitha C Asst. Prof, Dept. of ECE	Human Detection Tracking and Crowd Behavior Analysis using Image Processing	06/08/2021
4	Dr. Achyutha Prasad Asst. Prof, Dept. of CSE	A Novel approach to Delay Optimization and Energy Balancing Algorithms for Improving Network Lifetime in Fixed and Mobile Wireless Sensor Networks	13/08/2021
5	Dr.Dinesha.L Asst. Prof, Dept. of CSE	Design of an Efficient Information Retrieval System for Query Retrieval	27/08/2021
6	Dr. Chethan B K Asst. Prof, Dept. of ISE	Mobile Agents Security in Mobile Ad-hoc Networks	03/09/2021
7	Dr. Manjunath. C Asst. Prof, Dept. of Physics	Synthesis, Characterization & Luminescence Investigation of Un-doped and Doped Strontium silicate (Sr ₂ Sio ₄) Nanophosphor	17/09/2021
8	Dr. Manjula Yerva Asst. Prof, Dept. of ECE	Advanced Hiding Techniques for Data Security	24/09/2021
9	Dr. Muralidhar. N Asst. Prof, Dept. of Civil Engineering	Mechanical Characterization Of Areca-nut Husk Fibre Composite Panels Under Static And Dynamic Loading Conditions	01/10/2021