



C BYREGOWDA INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka & Affiliated to VTU, Belagavi.)

KOLAR – SRINIVASAPUR ROAD, KOLAR – 563101, KARNATAKA.

E-Mail: cbitkolar@gmail.com, Website: www.cbitkolar.edu.in Mobile No: 6360281836

2.3.1 STUDENT CENTRIC METHODS SUCH AS EXPERIENTIAL LEARNING, PARTICIPATE LEARNING AND PROBLEM SOLVING METHODOLOGIES ARE USED FOR ENHANCING LEARNING EXPERIENCES USING ICT TOOLS.

S.NO	DESCRIPTION
1.	Description about centric methods
2.	Laboratory Sessions
3.	Industrial Visit
4.	Project Demonstrations
5.	Research Projects
6.	Power Point Presentations (PPTs)
7.	Workshops
8.	Quiz Samples
9.	Online classes
10.	Hackathons
11.	YouTube Lectures



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1. DESCRIPTION ABOUT CENTRIC METHODS

In addition to integrating student-centric approaches like experiential learning, participatory learning and problem-solving methodologies with ICT (information and communication technology) tools, CBIT offers a variety of experimental and virtual learning methods in individual laboratories to analyse the theoretical concepts of subjects through software programs and Hardware interface in individual department, such as CAD, ANSYS, DSP, HDL, VLSI, Solid Works, Python program, PLC and Embedded program. These methods will greatly enhance the learning experiences. Each of these strategies can be applied with ICT in the following ways:

- 1. Experiential Learning:** Every classroom has a smart classroom system installed to show advanced technological films, PowerPoint presentations and online instruction pertaining to the semester's pertinent themes. Through immersive experiences that mimic real-world situations, ICT tools can help students learn by doing. Simulations, augmented reality (AR), virtual reality (VR) and interactive multimedia can all be used to build environments in which students can experiment, explore and gain knowledge from their experiences. The departments host a number of guest lectures by professionals from academia and industry to provide in-depth understanding of the syllabus, to link the curriculum with industry needs and to provide knowledge beyond the subject that is in line with industry needs for better placement.
- 2. Participatory Learning:** Students can collaborate and engage easily with ICT tools. Students can participate in meaningful debates, exchange ideas and work together on projects regardless of where they are physically located thanks to online discussion forums, collaborative documents, video conferencing and social networking platforms. This encourages group learning and a sense of community. Students learn beyond what is covered in the syllabus as the breadth of learning increases. To showcase their talents, students are encouraged to plan and take part in intercollegiate events such as symposiums, project exhibitions, national and international conferences and industrial tours. A national conference is organized by faculty and students



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Apart from conventional pedagogical approaches, the Institute offers inventive student-focused learning strategies such (1) Hackathons (2) Workshops (3) Virtual Labs (4) Examine online resources (5) Activity-based learning (6) Videos (7) Demonstrations (8) Flipped Classroom (9) Think-Pair-Share (10) Industry Visits (11) Talk by a guest (12) School of professional practice (13) GD/debates (14) Google Classroom (15) Real-time case studies (16) Project-based learning (17) PPT (18) Internship (19) Model prototype (20) Poster Presentation

3. Problem-Solving Techniques: By granting access to a wealth of data and resources, ICT tools facilitate problem-based learning. Students can obtain information, assess issues and come up with answers with the aid of software tools, instructional websites, applications and online research resources. Additionally, students can practice problem-solving techniques with the help of platforms like digital math manipulative or online coding environments. To further prepare them for the workforce, all college students attend classes in communication, logical reasoning and general aptitude. Dynamic, tailored learning opportunities that support a variety of teaching approaches, encourage creativity and critical thinking and provide students the freedom to direct their own education.



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2. LABORATORY SESSIONS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

OPERATING SYSTEM LABORATORY



STUDENTS AT OPERATING SYSTEM LABORATORY

The primary objective of Operating Systems Laboratory is to enlighten on the concepts of Operating system concepts and implementing practically the key features of operating system



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING DATA STRUCTURES LABORATORY



STUDENTS AT DATA STRUCTURES LABORATORY

The objective of Data structures Laboratory is to implement the concepts of data structures to memory storage and retrieval on memory and to evaluate the Time and Space complexities of algorithms



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DEPARTMENT OF MECHANICAL ENGINEERING

Computer Aided Engineering Drawing (CAED) Laboratory



Students at Computer Aided Engineering Drawing (CAED) Laboratory



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DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS



MICROCONTROLLER LABORATORY



ANALOG ELECTRONICS LAB



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DEPARTMENT OF BASIC SCIENCES



Students learning the experiments in Chemistry Laboratories



Students observing the Demonstration of experiments in Chemistry Laboratories



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DEPARTMENT OF MECHANICAL ENGINEERING



MACHINE SHOP – DESIGN LAB



DESIGN LAB



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DEPARTMENT OF CIVIL ENGINEERING



SURVEY LAB



BMT lab



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3. INDUSTRIAL VISIT



Department of AIML, CBIT organized an industrial visit to HAL Heritage Centre on 30/07/24



Department of AIML, CBIT organized an industrial visit to ISRO (URSC) on 30/07/24



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A University visit to “Horticulture University Kolar” was arranged for the students of 3rd Semester CSE-01st Mar 2024



An Industrial Visit to “Indian Institute of Astrophysics, Gowribidanur”, was arranged for the Electronics and Communication Engineering students and Staff- 26th DEC 2023.



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An Industrial Visit to “Capgemini” was arranged for the students of 6th Semester CSE on 25/05/2023.



A presentation at “Capgemini” was arranged for the students of 6th Semester CSE on 25/05/2023.



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Industrial Visit to **ISRO** was arranged for the students of 7th Semester Electronics and Communication Engineering on 28th April 2022



Industrial Visit to Muddenahalli, Sir M V Birth Place and Vemagal Industrial area was arranged for the students of 3rd Semester, Civil Engineering on 18th March 2022



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Industrial Visit to “**ATAL NANO Center Muddenahalli**” was arranged for the students of Electronics and Communication– 3rd DEC 2022



Industrial Visit for Civil Engineering to **National Institute of Rock Mechanics, NIRM @ KGF** on 18/08/2022



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4. PROJECT DEMONSTRATIONS AND RESEARCH PROJECTS



Project Exhibition was organised on 29th May 2023 at CBIT Campus for the 8th Semester Students. Best Projects were awarded in Every Department.



Project Exhibition organised at CBIT, Kolar



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Students of CBIT Participated in JVTM Project exhibition at Sri Adichunchanagiri Math on 19th and 20th Feb 2024



Students receiving certificate for participations



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Project Exhibition was conducted on 19th Feb 2020 at BGSIT – Mandya, Karnataka



During Project Exhibition 25 Students and staff were participated.



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5. RESEARCH PROJECTS

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652, 2334 8848/49/40

46th series of Student Project Programme (SPP): 2022-23

List of Student Project Proposals Approved for Sponsorship

33. C. BYREGOWDA INSTITUTE OF TECHNOLOGY, KOLAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (RS.)
254.	46S_BE_2502	EXPERIMENTAL ANALYSIS ON PROPERTIES OF CLAY BRICK BY PARTIAL REPLACEMENT BY STONE DUST	B.E.	CIVIL ENGINEERING	Dr. SHIVARAJU R Prof. NARAYANASWAMY K.A	Ms. ABHINAYA N Ms. NEETHU S Ms. TEJASHWINI P.M Ms. ARCHANA V	5,000.00
255.	46S_BE_3161	PIEZOELECTRIC SMART ROAD	B.E.	CIVIL ENGINEERING	Mr. NARAYANASWAMY K.A	Mr. R VARUN Mr. MARUTHIMANIKANTA G.V Mr. SHIVU B.N	5,000.00
256.	46S_BE_1629	AN IOT SYSTEM FOR REAL TIME MONITORING AND CONTROLLING WASTE WATER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SUMARANI.H	Ms. THANUJA A.M Ms. MIZBA SIDDIQA Ms. SHASHIREKHA K Ms. UZMA SHARIFF	4,000.00
257.	46S_BE_2362	SMARTCAP-WEARABLE VISUAL GUIDANCE FOR BLIND USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. KAVITHA N Mr. VASUDEVA R	Mr. DHEERAJ SRIVATSA K.S Mr. DANISH ARA Mr. ALMAS AMEEN Ms. GAGANA T	4,000.00
258.	46S_BE_3799	DESIGN OF SMART MIRROR USING RASPBERRY PI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. AMALA M	Ms. HEMA SWETHA S Ms. DIVYASHREE M.K Ms. HARSHITHA S Ms. MANASA C.Y	5,000.00

Transaction Details:

NAME OF THE ACCOUNT HODLER	DATE OF TRANSACTION	TRANCTION DETAILS	AMOUNT
PRINCIPAL CBIT	12-05-2023	*NEFT DR-P138230242149588-PRINCIPAL CBIT-KARB0000424*	23,000.00

List of student proposal Approved for sponsorship

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652, 2334 8848/49/40

46th series of Student Project Programme (SPP): 2022-23

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33. C. BYREGOWDA INSTITUTE OF TECHNOLOGY, KOLAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (RS.)
254.	46S_BE_2502	EXPERIMENTAL ANALYSIS ON PROPERTIES OF CLAY BRICK BY PARTIAL REPLACEMENT BY STONE DUST	B.E.	CIVIL ENGINEERING	Dr. SHIVARAJU R Prof. NARAYANASWAMY K.A	Ms. ABHINAYA N Ms. NEETHU S Ms. TEJASHWINI P.M Ms. ARCHANA V	5,000.00
255.	46S_BE_3161	PIEZOELECTRIC SMART ROAD	B.E.	CIVIL ENGINEERING	Mr. NARAYANASWAMY K.A	Mr. R VARUN Mr. MARUTHIMANIKANTA G.V Mr. SHIVU B.N	5,000.00
256.	46S_BE_1629	AN IOT SYSTEM FOR REAL TIME MONITORING AND CONTROLLING WASTE WATER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SUMARANI.H	Ms. THANUJA A.M Ms. MIZBA SIDDIQA Ms. SHASHIREKHA K Ms. UZMA SHARIFF	4,000.00
257.	46S_BE_2362	SMARTCAP-WEARABLE VISUAL GUIDANCE FOR BLIND USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. KAVITHA N Mr. VASUDEVA R	Mr. DHEERAJ SRIVATSA K.S Mr. DANISH ARA Mr. ALMAS AMEEN Ms. GAGANA T	4,000.00
258.	46S_BE_3799	DESIGN OF SMART MIRROR USING RASPBERRY PI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. AMALA M	Ms. HEMA SWETHA S Ms. DIVYASHREE M.K Ms. HARSHITHA S Ms. MANASA C.Y	5,000.00

Transaction Details:

NAME OF THE ACCOUNT HODLER	DATE OF TRANSACTION	TRANCTION DETAILS	AMOUNT
PRINCIPAL CBIT	12-05-2023	*NEFT DR-P138230242149588-PRINCIPAL CBIT-KARB0000424*	23,000.00

List of student proposal Approved for sponsorship



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RESEARCH GRANT DETAILS

- A **VGST Research Grant** sanctioned for the financial year 2016-17 to 2020-21. The Project titled.
Title: “Low power and Long distance communication system using DTCDWT based OFDM for Remotely Operated Underwater Vehicle(ROV)”

Principal Investigator: Dr. Sreerama Reddy G M

Grants Sanctioned: 60 Lakhs.

- A **VTU sponsored Research Project** is in progress in the field of Geo-Environmental Engineering.
Title: “**Impact of Silk Industrial Solid and Liquid Wastes on Geotechnical Properties of Soil and Water Sources**”

Principal Investigator: Prof. Shivaraju R

Grants Sanctioned: 8.50 Lakhs



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KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru – 560 012

Website: <http://www.ksct.iisc.ernet.in/spp.html> || Email: spp@ksct.iisc.ernet.in || Phone: 080-23600978

43rd Series of Student Project Programme: 2019-20

LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

32) C. BYREGOWDA INSTITUTE OF TECHNOLOGY, KOLAR

166.	43S_BE_1295	PLASTIC BOTTLE SHREDDER FOR GARBAGE MANAGEMENT SYSTEM USING IOT	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. G.K VENKATESH	Ms. GOWTHAMI V Ms. KRUTHI S Ms. LIKITHA M Ms. MALLIKA TALAWAR	6000.00
167.	43S_BE_1298	IOT BASED PROJECT ON FOREST MONITORING SYSTEM	COMPUTER SCIENCE AND ENGINEERING	B.E.	STREAM A	Mr. VASUDEVA R	Mr. CALABE P S Mr. MUJEER PASHA Mr. NIKHIL R	5000.00
168.	43S_BE_1301	SEMI AUTOMATIC TRAIN COUPLING	MECHANICAL ENGINEERING	B.E.	STREAM A	Mr. SRINATHA K M Mr. GOWTHAM M J	Mr. DINESH M Ms. KAVYA SHREE S V Mr. PAVAN KUMAR B J Mr. POORNESH R	7500.00

Note:

- The sanctioned amount will be sent by account payee cheque to the Principal of the institution.
- The evaluation of above projects will be conducted at the nodal centres in the month of May / June 2020. Participation in the evaluation process at the nodal centres is mandatory, failing to which the sanctioned project will be withdrawn from the list and sanctioned amount shall be returned to KSCST.
- Further projects will be shortlisted for state level seminar & exhibition which will be conducted during July / August 2020.
- After completion of the projects, the hard copy and soft copy (PDF format only) of the report needs to be sent to KSCST without fail.
- Any corrections with respect to the names of the guide and students should be requested at spp@ksct.iisc.ernet.in.



Receiving 2024 UiPath India Academic Award Presented to Dr. S N Chandrashekara



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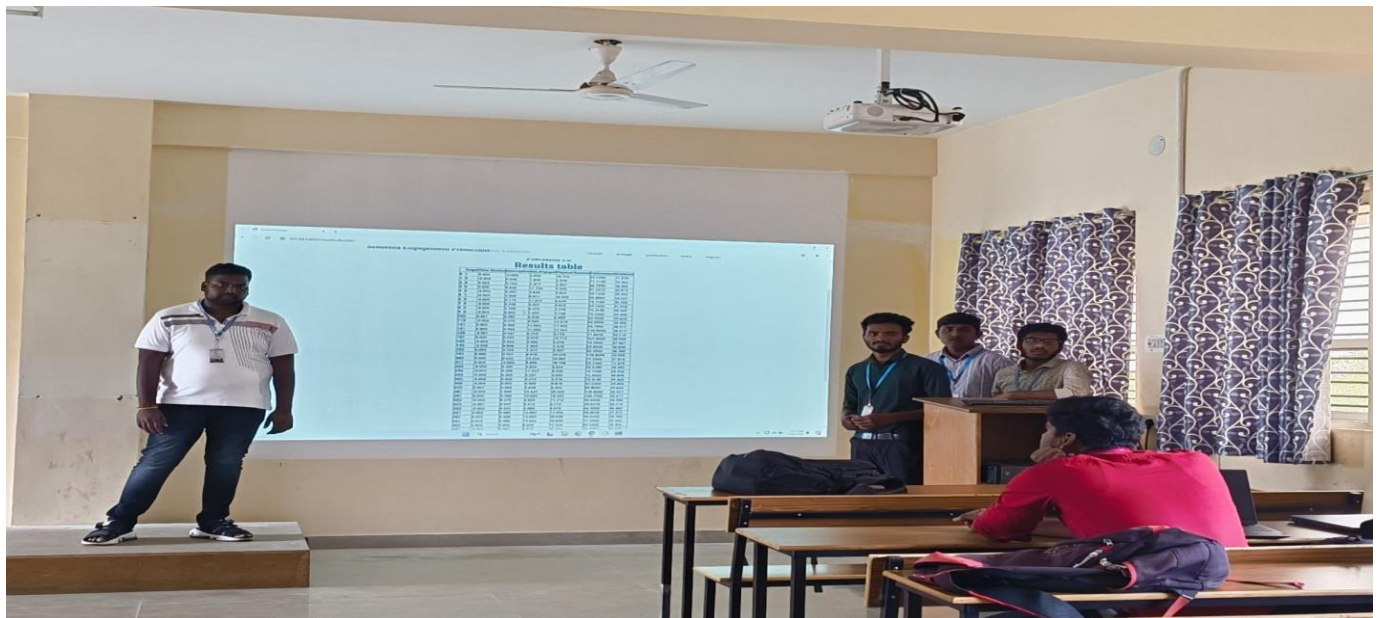
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6. POWER POINT PRESENTATIONS



Seminar presentation on material management- Department Of Mechanical Engg.



Student Internship presentation on Machine Learning – Department of AIML



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Internship presentation on embedded concepts – Department of ECE



Presentation on – ISTE student Chapter



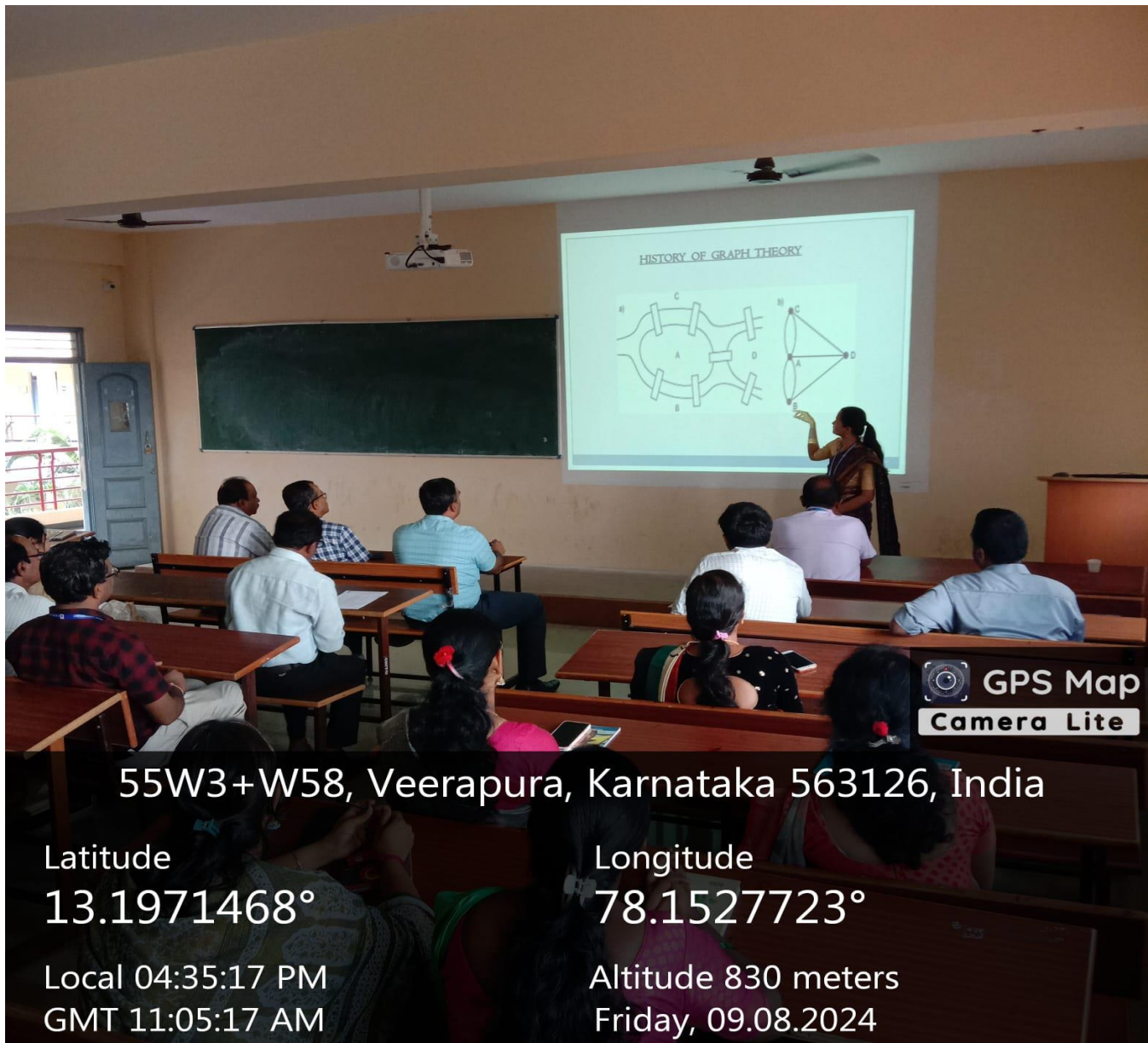
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7. WORKSHOPS



55W3+W58, Veerapura, Karnataka 563126, India

Latitude
13.1971468°

Longitude
78.1527723°

Local 04:35:17 PM
GMT 11:05:17 AM

Altitude 830 meters
Friday, 09.08.2024

One day Workshop organized on “Graph Theory and its Applications” held on 09/08/2024

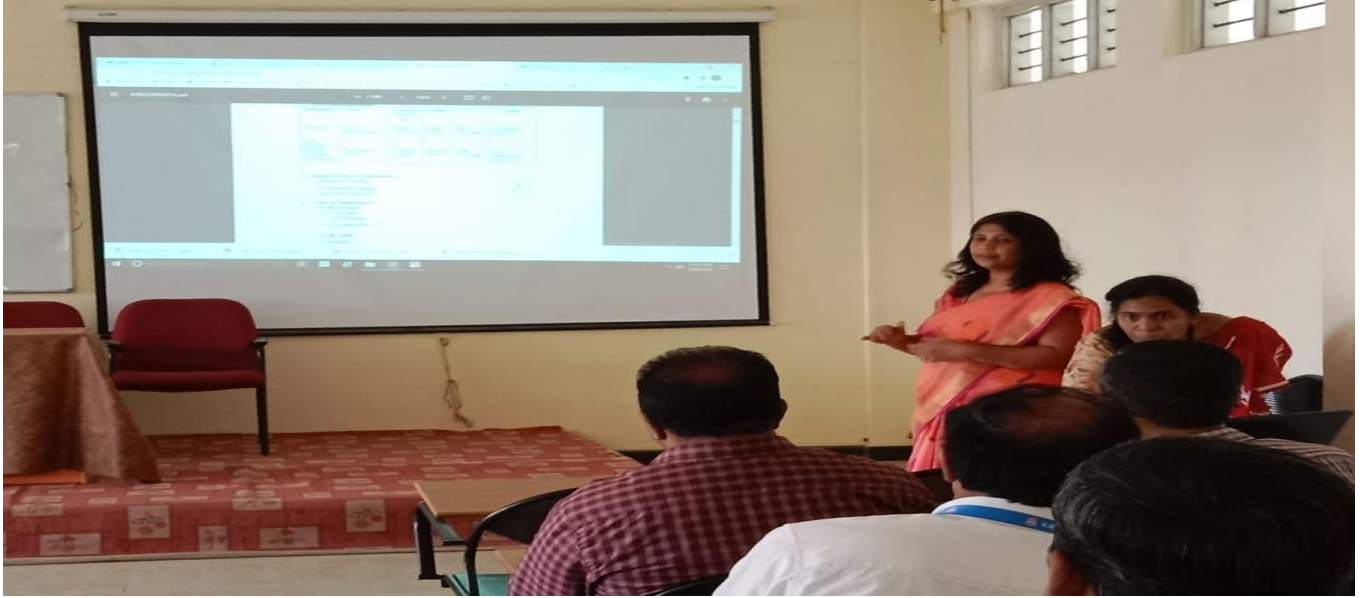


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NAAC ORIENTATION Program Was Conducted on 20th Apr 2023 for all Faculties.



Resource persons: Dr Sunitha P H, Assoc. Professor, Dept. of ECE

Dr Tejaswini C, Assoc. Professor, Dept. of ECE

MS Egg college Bangalore.

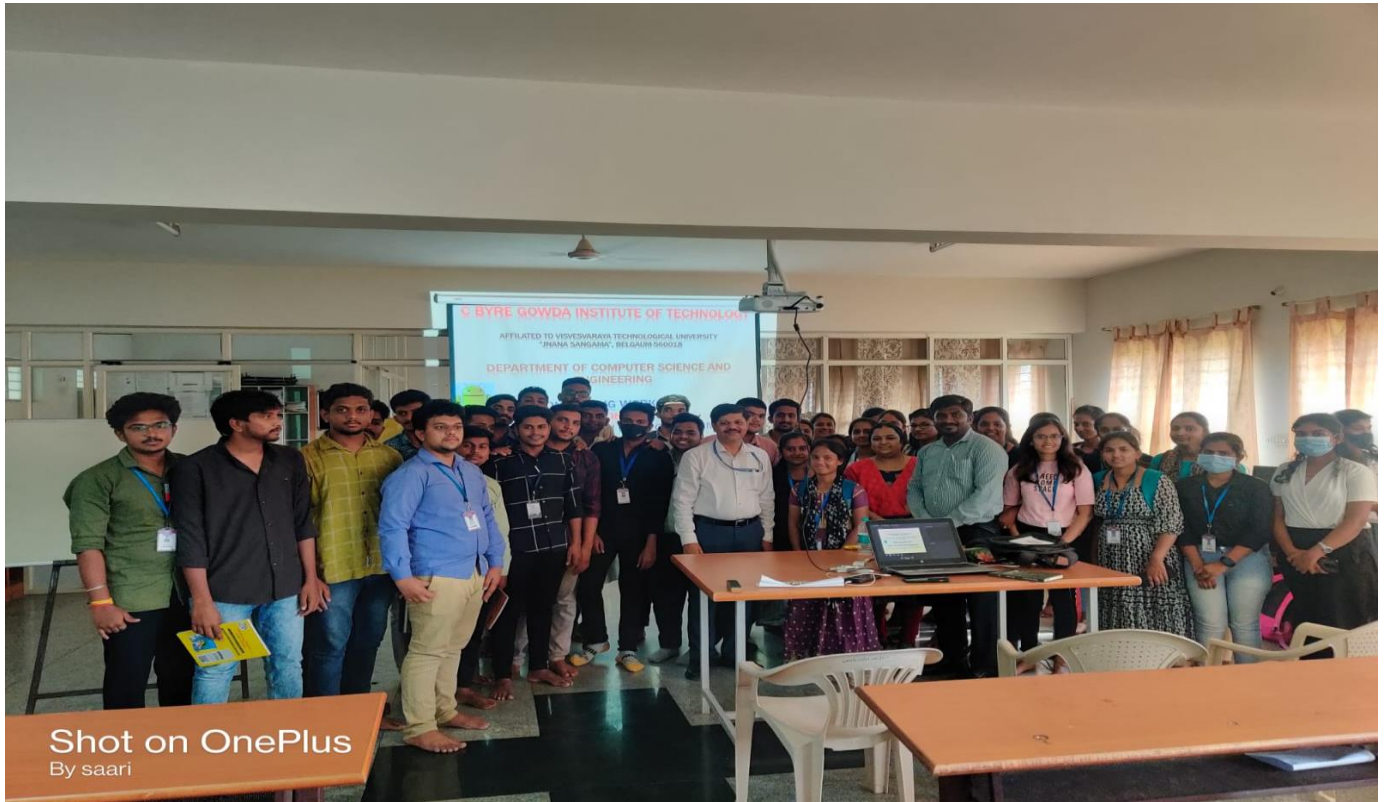


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One Day Workshop organized on “**Mobile Application Development**” held on 16th Jun 2023 for CSE Students. **Resource Person:** Ms. Rakshitha & Team, TATA Honey Well



A 5 Days Workshop organized by Department of Electronics & Communication on” **Introduction to VLSI Tools**”, from: 22/12/2023 to: 24/12/2023



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aws

International Invited Talk

Topic: Transition of Technology in Cloud towards IoT
Date: 07/11/2023

Speaker:
Mr. Varun Kumar Manik
Manager, Deloitte SEA
AWS & APN Ambassador
Kuala Lumpur, Malasiya

International Invited Talk on Transition of Technology in Cloud towards IoT held on 07/11/2023

Connecting IoT devices

[Saving offline device state](#)

[Routing device data to services](#)

Device Shadows save system state while a device is offline

[Previous section](#) [Start section](#)

Session progress on Transition of Technology in Cloud towards IoT



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One Day Workshop was organized on **”DevOps”**, for the Students of 7th Semester on 26/11/2022



Resource Person: Mr. Ranjith Kumar, Associate Manger, Accenture, Bangalore



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Two Day Workshop on “Engineering Electro Magnetics” was conducted on 6th and 7th October 2017 for the students of ECE Department.



Certificate distribution to the student



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NBA Awareness program was conducted on 08/03/2018 for All Faculties.



Resource person Dr. Suresh R, BMSCE, Bangalore.



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8. QUIZ SAMPLES

C BYREGOWDA INSTITUTE OF TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING QUIZ QUESTIONS

Sub Name: Engineering Mechanics
Sub Code: BC1VC203

Date: 28/06/2024

Name: Sathish R

USN: 15K23CX009

Note: All questions are compulsory. Each carries 1 mark.

- 1) Geotechnical Engineering involves the study of
a) Water b) Soil c) Air d) All the above
- 2) River flood controlling can be done by constructing....
a) Bridge b) Tunnel c) Dam d) Harbour
- 3) The centroid of a semi circle of radius R about its Centroidal axis parallel to its diametric axis is
a) $3R/4\pi$ b) $3R/8\pi$ c) $3R/10\pi$ d) $4R/3\pi$
- 4) The unit of the force in S.I system of unit is
a) Dyne b) Kilogram c) Newton d) Walt
- 5) Highway which are superior to national highways and are provided wherever volume of traffic is very high are.....
 a) State highway b) Roadways
c) Airways d) Expressways
- 6) UVL stands for.....
a) Uniform vertical load b) Uniform velocity load
c) Uniform Vague load d) Uniformly varying load
- 7) A thin rigid beam hinged at one end and roller supported at its mid point is said to be a
a) Overhanging beam b) simply supported beam
c) Cantilever beam d) Fixed beam
- 8) UDL stands for
a) Uniform dead load b) Uniform door load
 c) Uniformly distributed load d) None of these
- 9) The number of reaction components at a hinged end of a beam are.....
a) 0 b) 2 c) 3 d) 1
- 10) A cantilever beam is one which
a) Both ends are fixed b) Both ends are hinged
 c) One end is fixed and other is free d) One end is fixed and other is simply supported

10
Sathish R
28/6/24



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Department of Computer Science and Engineering

Quiz-1

Sub: Machine Learning [21AI63]
Duration: 30 minutes

Sem: VI AIML
Date: 31.07.2024
Max Marks: 20

1. Among the following option identify the one which is not a type of learning.
(a) Supervised learning. (c) Reinforcement learning.
(b) Unsupervised learning. (d) Semi Unsupervised Learning.
2. Identify the type of learning in which labelled training data is used.
(a) Semi unsupervised learning
(b) Supervised learning
(c) Reinforcement learning
(d) Unsupervised learning.
3. What is the term known as on which the machine learning algorithms build a model based on sample data?
(a) Data training. (b) Transfer data. (c) Testing Data. (d) None of the above.
4. Which of the following machine learning algorithm is based upon the idea of bagging?
(a) Decision tree. (b) Random-forest. (c) Classification. (d) Regression.
5. Machine learning is a subset of which of the following.
(a) Artificial intelligence. (b) Deep learning. (c) Data learning. (d) None of the above.
6. Which of the following are common classes of problems in machine learning?
(a) Regression. (b) Classification. (c) Clustering. (d) All the above.
7. FIND-S algorithm ignores?
(a) Positive. (b) Negative. (c) Both. (d) None of the above.
8. Analysis of ML algorithm needs
(a) Statistical learning theory. (c) Computational learning theory.
(b) Both A and C. (d) None of these.
9. Which of the following is not a supervised learning
(a) Naive Bayesian. (b) Linear regression. (c) PCA. (d) Decision tree.
10. Choose whether true or false: Decision tree cannot be used for clustering.

15
20
[Signature]



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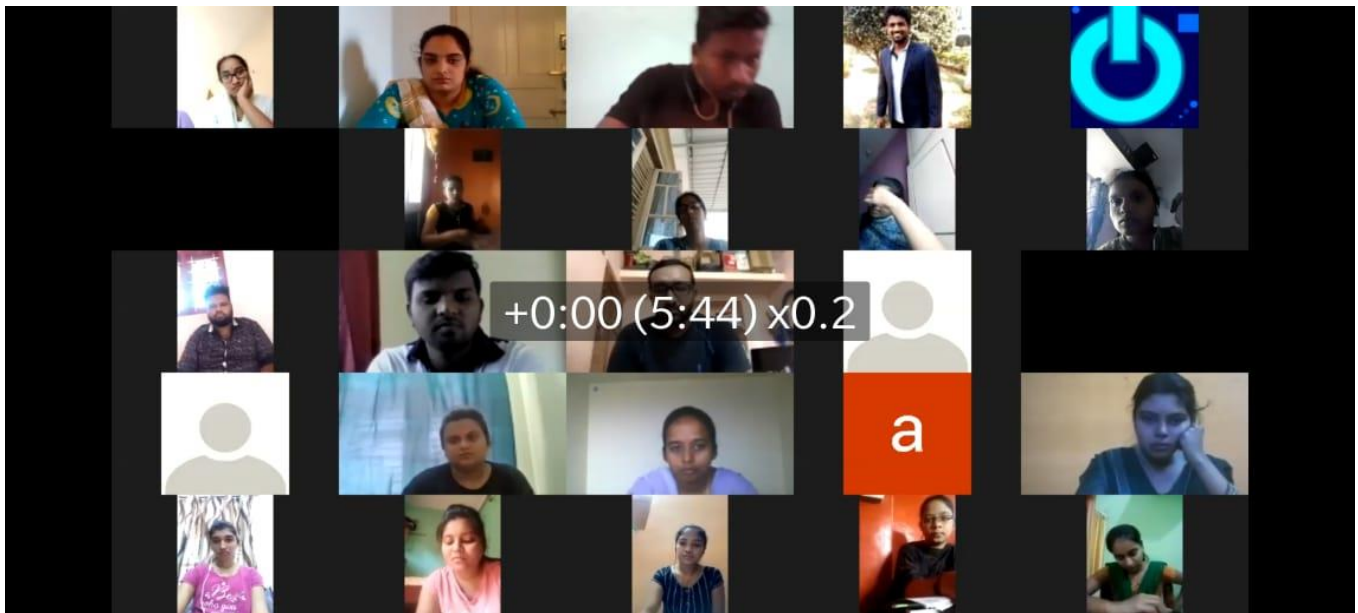
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9. ONLINE SESSIONS

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS

CONDUCTING ONLINE CLASSES



STUDENTS PARTICIPATING IN ONLINE CLASS



STUDENTS INTERACTIVE SESSION DURING ONLINE CLASS



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A **Technical Talk** on “IOT and Python” was conducted on 23rd& 24th June 2021 for the staff and students of Computer Science Department.



Online participation for Python programming class



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10. HACKATHONS



Students were participated in Ambition-24 organized by the BIT, Bangalore held on 06/07/24



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The Department hosted the 2nd edition of Yantrotsava, an Inter collegiate technical fest 2020





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A team of Electronics and Communication Engineering Students participated in **SMART INDIA HACKATHON** held on 1st & 2nd of April, 2017 at Ahmadabad, Gujarat state.



SMART INDIA HACKATHON



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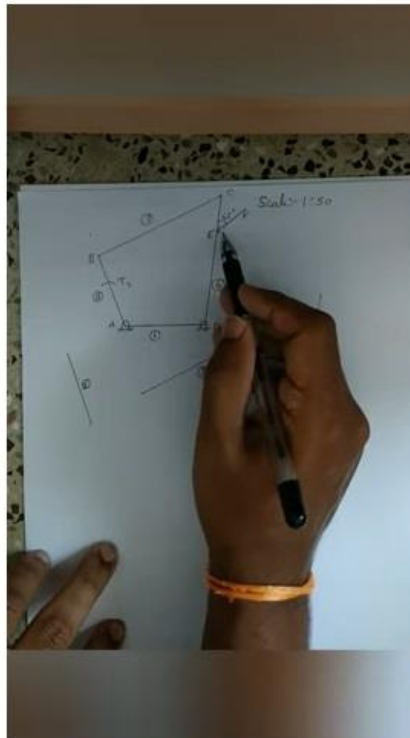
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11. YOUTUBE LECTURES



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Static force analysis of four bar mechanism



Sandeep SN

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**Youtube lecture on static four analysis for bar mechanism – session1 from
Department of Mechanical Engineering**



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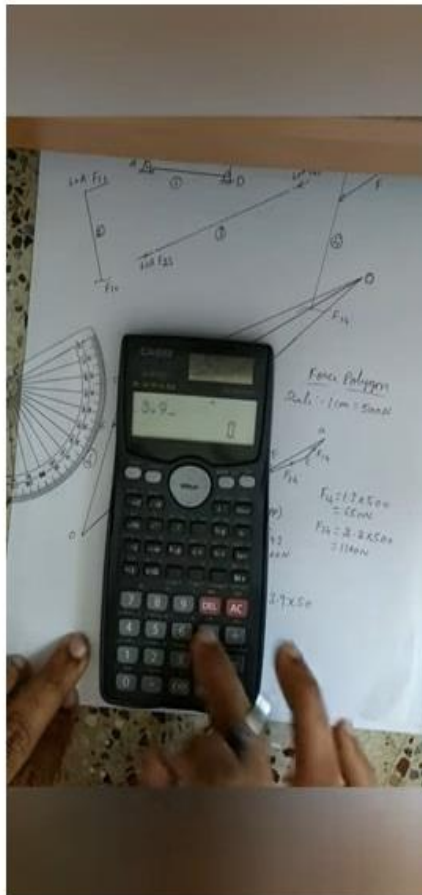
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Static force analysis of four bar mechanism

Youtube lecture on analysis of four bar mechanism second session from
Department of Mechanical Engineering

YouTube Links: https://youtu.be/nWK0kEdAG_k?si=PF18wldzj5_LAkR4



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8051 Serial communication

- Basics of serial data communication
- RS-232 standard
- 9 pin RS232 signals
- Programming steps to receive & transfer data serially

ECE MC serial Communication Lec-1

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ECE MC Serial Communication Lec-5

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