


Shree Rahul Education Society's (Regd.)

# SHREE L. R. TIWARI COLLEGE OF ENGINEERING

(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)  
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Minority Status (Hindi Linguistic)

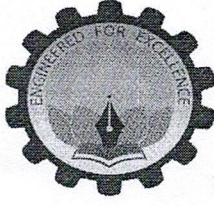
## Report for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
1	Structural and Architectural Aspects in Civil Engineering	2022 -2023
2	AWS Cloud	2022 -2023
6	Advanced Python for Mechanical Engineering	2022 -2023
7	Advanced Cybersecurity Malware Analysis	2022 -2023
8	Digital VLSI Design	2022-2023
9	Product Design and Development	2022-2023
10	5 G Communication	2022 -2023
11	Environmental Ethics	2022-2023
14	Game Asset Development using Blender	2022-2023
15	Machine Learning	2022-2023
16	Flutter	2022-2023
17	Fundamental and Application of Robotics Lab	2021-2022
18	AWS Cloud	2021-2022
19	Internet of Things	2021-2022

  
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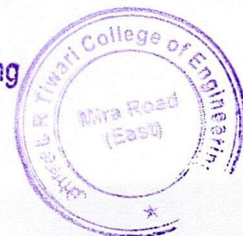
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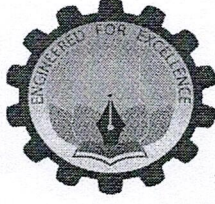
## Report for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
23	Add on course "Drone Technologies"	2021-2022
24	Python for Mechanical Engineering	2021 - 2022
25	A complete report writing workshop using LaTeX software	2019-2020
26	Value education on Self Development	2019-2020
27	Personality Development: Self-Discovery Intensive	2019-2020
28	Solid Works and Ansys	2019-2020
29	Integrity Engineering: Nurturing Values in Technology	2019-2020
30	Essentials of Dharma: Mindful Decision-Making	2019-2020
31	Value Education for Mind Control: Brainpower Enhancement	2019-2020
32	Robotics	2018-2019
33	Ethics in engineering & value education :AURA	2018-2019
34	Dharma-A Life of Integration	2018-2019
35	Basic Programming Using Python	2018-2019
36	Ethics in engineering and value education	2018-2019
37	Human Rights	2018-2019

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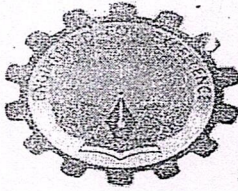
Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
38	Environmental Impact Assesment	2018-2019
39	Soft Skill Development	2018-2019
40	Internet of Things	2018-2019
41	Panchkosh	2018-2019
42	Value added education on mind control	2018-2019
43	Personality Development	2018-2019

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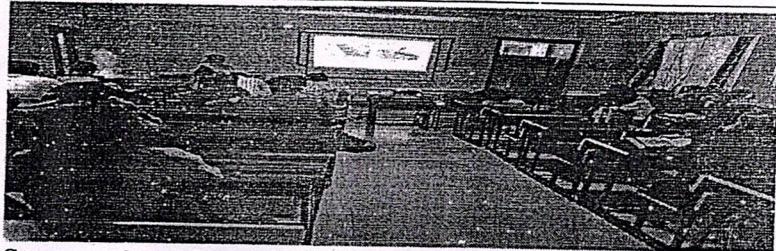
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Department of Civil Engineering

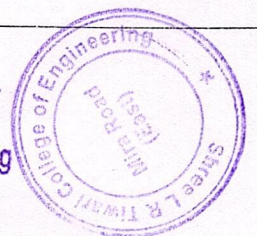
Academic Year 2022 – 2023

## Report for Audit Course on “Structural and Green Building Aspects in Civil Engineering”

Title	Structural and Green Building Aspects in Civil Engineering
Date	09/01/2023 to 30/01/2023
Time	Attached in schedule
Venue	503
Number of participants	72
Image	 Structural and Green Building Aspects in Civil Engineering
Objectives	The course should enable the students to: 1. Design Structural components of G+1 residential Building 2. Study any two aspects of green building
Takeaways from the Session	The audit Course on “Structural and Green Building Aspects in Civil Engineering” was conducted by the Department of Civil Engineering, SLRTCE & SKLTCOA. The course included training on designing structural components of G+1 residential building as IS 456:200 following with calculation of rainwater harvesting and solid waste generation of a building.
Outcomes (Mention if relevant to PO/PSO):	Students will be able to understand the 1. Design of residential building as IS 456:2000. (PO1 & PSO1) 2. Architectural aspects of Green Building. (PO7)
Signature. of the Head of Department	

*Paulita*

*[Signature]*  
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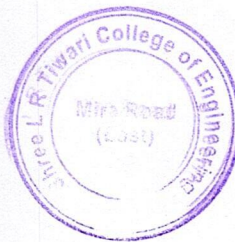
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## DEPARTMENT OF COMPUTER ENGINEERING

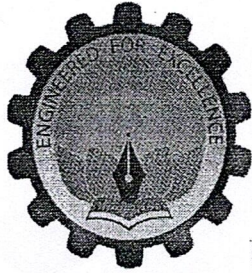
### Report on Add-on Course on "AWS Cloud"

Particulars	Description
<b>Activity:</b>	Technical
<b>Title:</b>	Add-on Course on "AWS Cloud"
<b>Duration :</b>	30Hrs 8 <sup>st</sup> Dec 2022 to 15 <sup>th</sup> Dec 2022
<b>Objective of event:</b>	Aws Cloud provides a detailed overview of cloud concepts, AWS core services, architecture, pricing and support. Also describes the security and compliance measures of the AWS cloud, include AWS identity and Access Management (IAM).
<b>Outcome of event:</b>	On successful completion, of course, the learner/student will be able to: <ol style="list-style-type: none"> <li>1. To understand the fundamentals of AWS Cloud and AWS pricing philosophy.</li> <li>2. To obtain complete knowledge of how to create VPC (Virtual Private Cloud) by using Amazon Virtual Private cloud</li> <li>3. To understand the importance of AWS database services, including amazon database services</li> </ol>
<b>Targeted Participants:</b>	All SLRTCE Students
<b>Coordinator:</b>	Mr.Pravin Jangid



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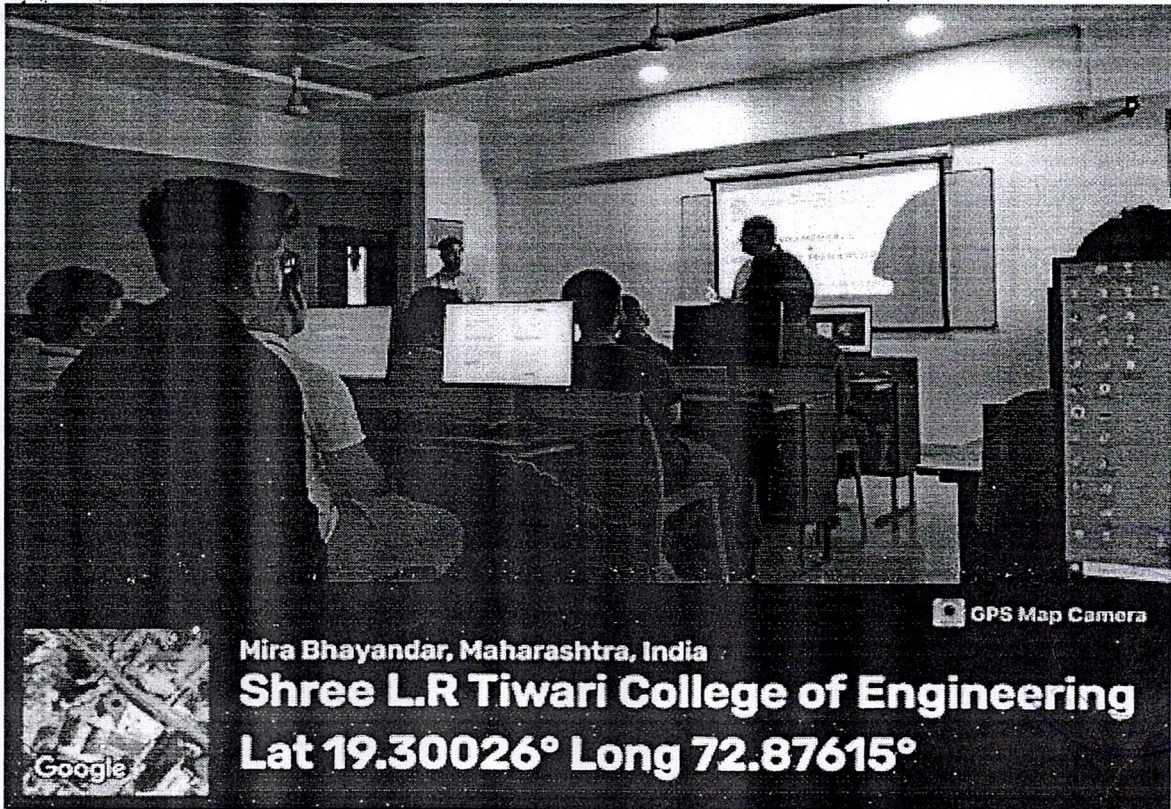




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GPS Map Camera

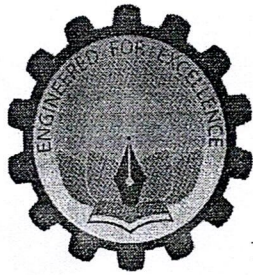


Mira Bhayandar, Maharashtra, India  
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**Lat 19.30026° Long 72.87615°**



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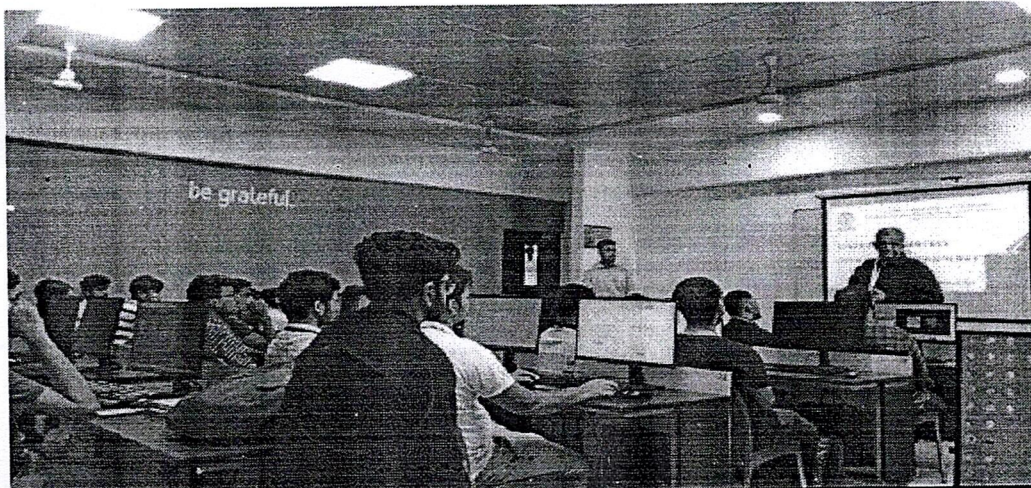




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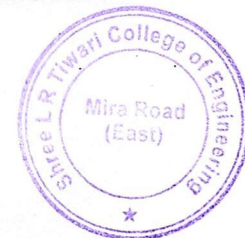
Mira Bhayandar, Maharashtra, India

**Shree L.R Tiwari College of Engineering**

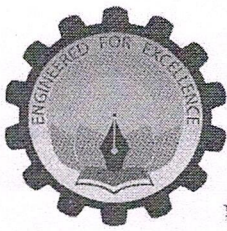
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## Department of Mechanical Engineering Value Added/ Bridge/ Add-on Course Report on “Advanced Python for Mechanical Engineering”

### Value Added/ Bridge/ Add-on Course Details:

**Course name:** Advanced Python for Mechanical Engineering

**Duration:** 30 Hours, 12<sup>th</sup> December 2022 to 24<sup>th</sup> December 2023

**Organization:** Shree. L. R. Tiwari College of Engineering (SLRTCE)

### Training Details:

**Trainer Name:** Mr Ninad Mahadeshwar

**Trainer Position:** Assistant Professor, Shree. L. R. Tiwari College of Engineering, Mira Road(E)

**Topics covered:** These course objectives intertwine advanced Python programming with graphical user interface development, highlighting the practical applications of each concept in the realm of mechanical engineering. By linking programming skills to tasks such as FEA, CFD, simulations, and decision support, students gain a holistic understanding of how advanced Python techniques are integrated into real-world engineering scenarios.


**Course Objectives:** The students shall be able to

1. Introduction to Python Programming
2. Numerical Methods and GUI Integration
3. Parallel and Concurrent Programming for Engineering Simulations
4. Machine Learning for Engineering Decision-Making
5. Advanced Data Visualization with GUI Reporting

**Number of Participants:** 53

**Course Outcomes:** The students shall be able to

1. Mastery of Advanced Python Concepts.
2. Integration of Numerical Methods with GUI
3. Optimized Parallel and Concurrent Programming
4. Application of Machine Learning in Engineering
5. Advanced Data Visualization and GUI Reporting Skills

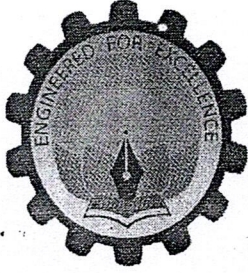
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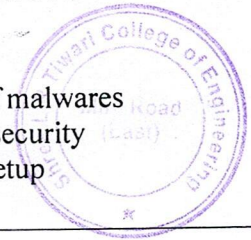
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## DEPARTMENT OF COMPUTER ENGINEERING

### Report on Add-on Course on "Advanced Cyber Security (Malware Analysis)"

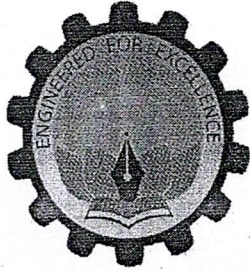
Particulars	Description
Activity:	Technical
Title:	Add-on Course on "Advanced Cyber Security (Malware Analysis)"
Duration :	30Hrs 26 <sup>th</sup> June 2023 to 1 <sup>st</sup> July 2023
Objective of event:	Understanding various malware types, their characteristics, and behaviors to detect and identify malicious code accurately. Learning advanced techniques and tools to dissect malware samples, such as reverse engineering, dynamic analysis, and static analysis.
Outcome of event:	On successful completion, of course, the learner/student will be able to: 1. To understand Malware Analysis. 2. To understand Basic Analysis and creation of malwares 3. To Implement Fundamentals of Operational security 4. To Demonstrate Environment and Analysis setup
Targeted Participants:	All SLRTCE Students
Coordinator:	Mr. Rajesh Gaikwad



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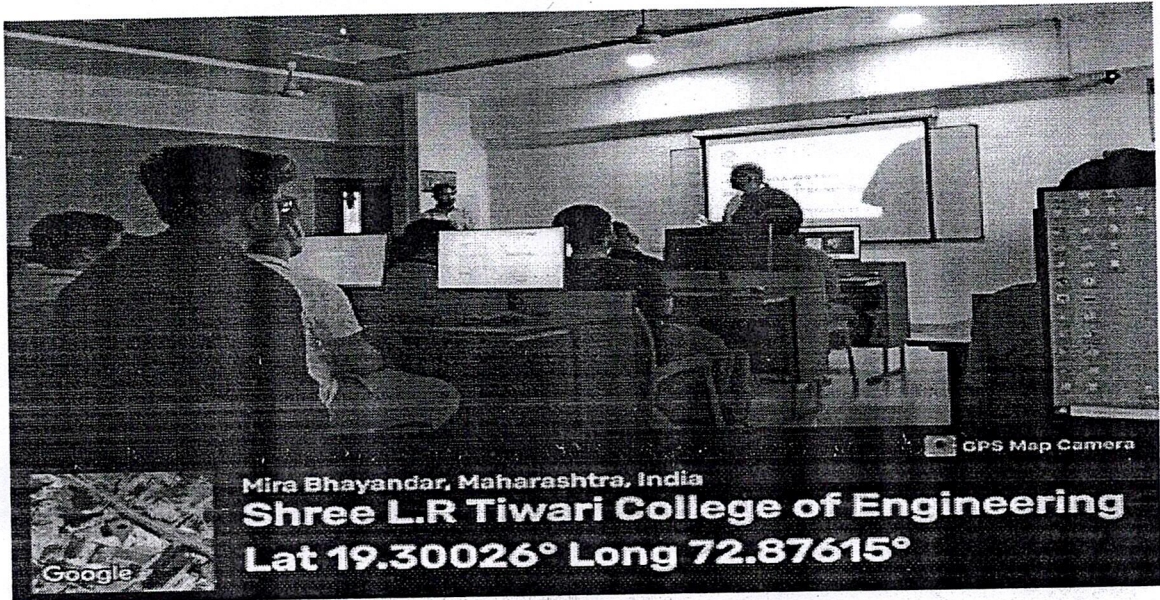




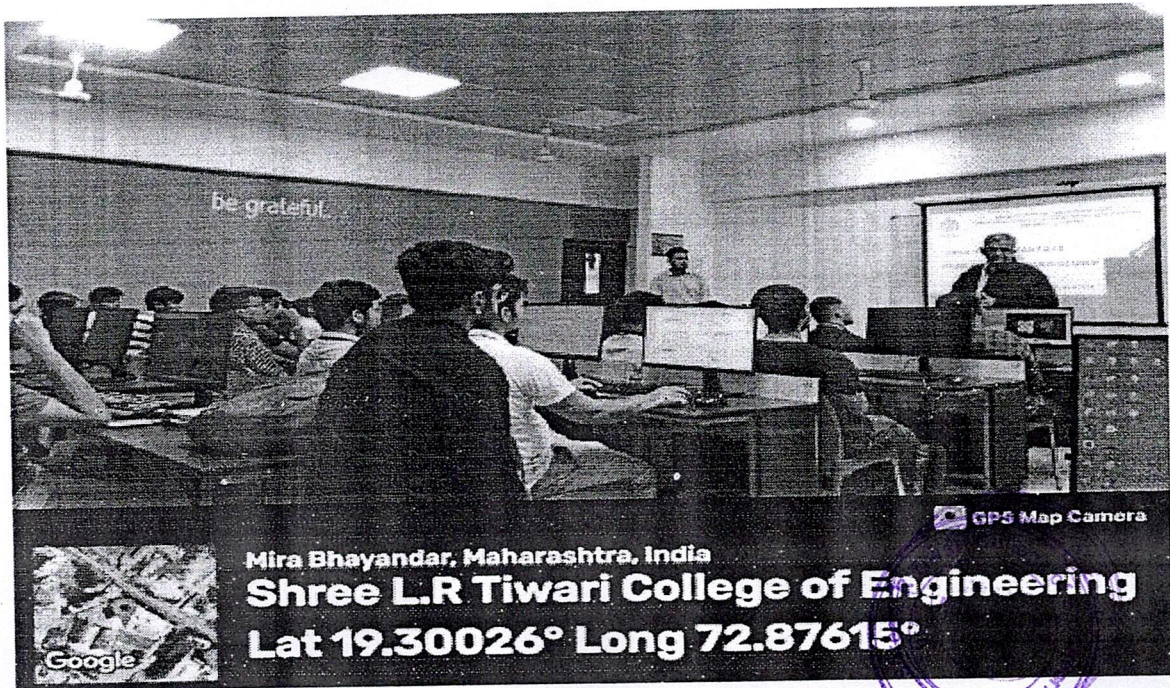
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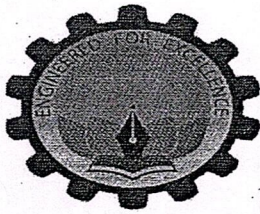
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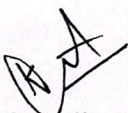
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## Department of Electronics and Computer Science Report on Add on Course on "Digital VLSI Design"

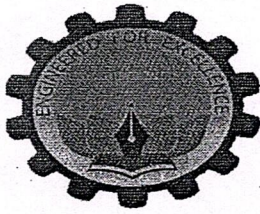
Particulars	Description
Activity:	Technical
Title:	Add on course on Digital VLSI Design
Duration :	30Hrs 8 <sup>th</sup> December 2022 to 14 <sup>th</sup> December 2022
Objective of event:	The course should enable the students to: to learn the concepts on VLSI Design, System On Chip Design, ASIC and FPGA design Flow, Digital Electronics & Verilog HDL which will be highly required to start an industry standard protocol based project.
Number of Participant	197
Outcome of event:	On successful completion, of course, the learner/student will be able to: 1. Know various tools and processes used in VLSI Design. 2. Explain working of various CMOS combinational and sequential circuits used in VLSI Design. 3. Design, simulate, and verify CMOS circuit for given specifications.
Targeted Participants:	Electronics and Computer Science Department Students
Coordinator:	Ms. Khushbu Tikhe

  
Course Coordinator  
Ms. Khushbu Tikhe

  
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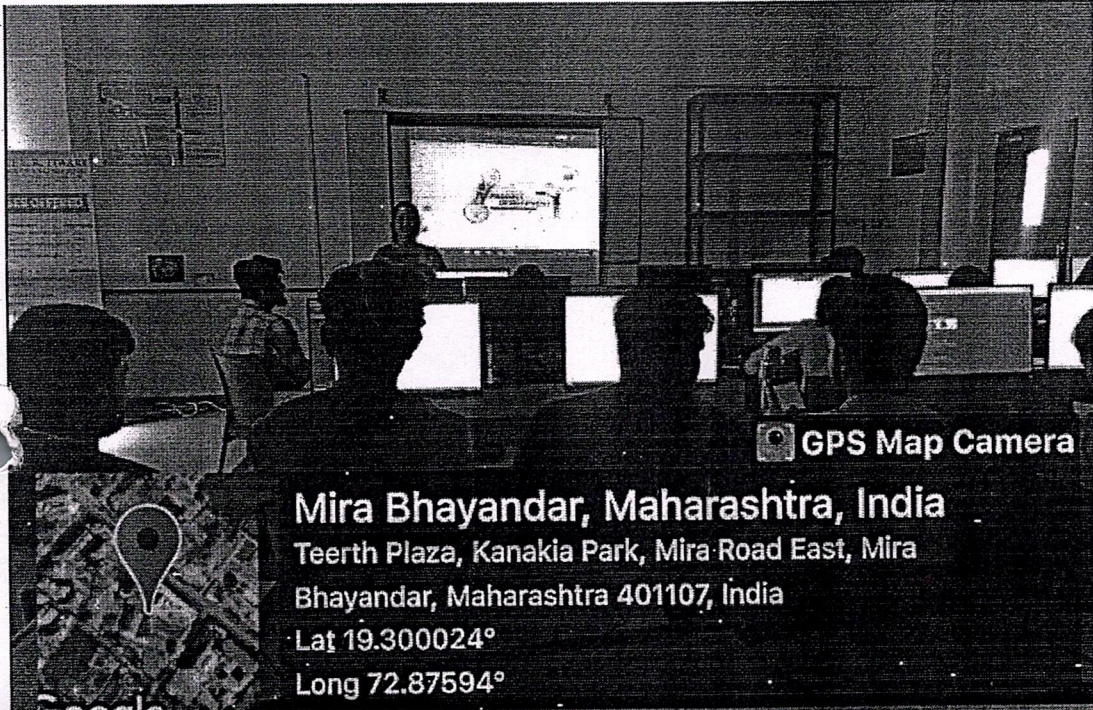




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Bhayandar, Maharashtra 401107, India

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Mira Bhayandar, Maharashtra, India

Teerth Plaza, Kanakia Park, Mira Road East, Mira  
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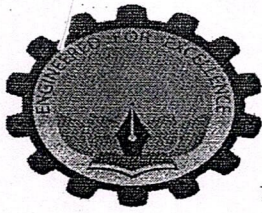
Course Coordinator  
Ms. Khushbu Tikhe

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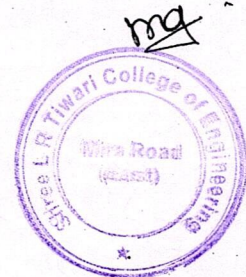
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## Department of Electronics and Computer Science Report on Add on Course on "Product Design and Development"

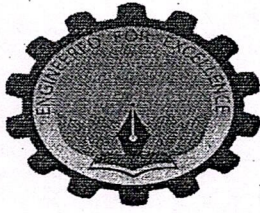
<b>Particulars</b>	Description
<b>Activity:</b>	Technical
<b>Title:</b>	Add on course on Product Design and Development
<b>Duration :</b>	30Hrs 16 <sup>th</sup> June 2023 to 21 <sup>st</sup> June 2023
<b>Objective of event:</b>	<ol style="list-style-type: none"><li>1. The course should enable the students to: to learn the concepts of Product Design and Development.</li><li>2. Students should be able to use various tools <u>to</u> develop products .To understand the concept of IPR.</li><li>3. The Product Design internship program help students to use their creativity, design thinking, and design process to bring new ideas, products, experiences, and value to companies, communities, and people.</li><li>4. The Product Design's Learning Outcomes are student-centered that include skills, abilities, knowledge, and values.</li></ol>
<b>Number of Participant</b>	108
<b>Outcome of event:</b>	On successful completion, of course, the learner/student will be able to: <ol style="list-style-type: none"><li>1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.</li><li>2. Competence with a set of tools and methods for product design and development.</li><li>3. Confidence in your own abilities to create a new product.</li><li>4. Ability to coordinate multiple, interdisciplinary tasks in order to achieve a common objective.</li></ol>
<b>Targeted Participants:</b>	Electronics and Computer Science Department Students & MECH Dept student
<b>Coordinator:</b>	Ms. Khushbu Tikhe

Course Coordinator  
Ms. Khushbu Tikhe

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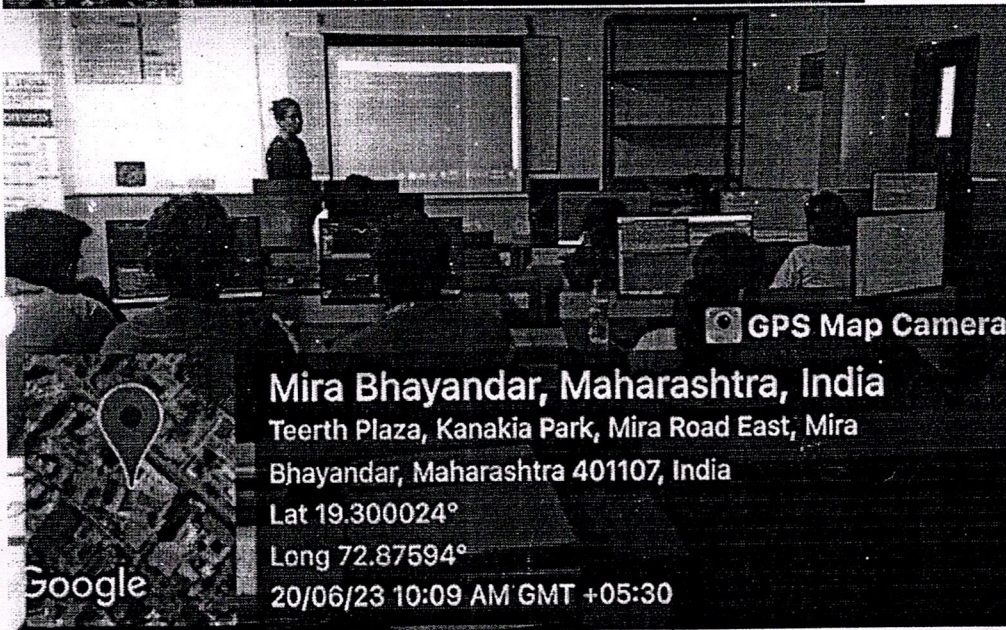
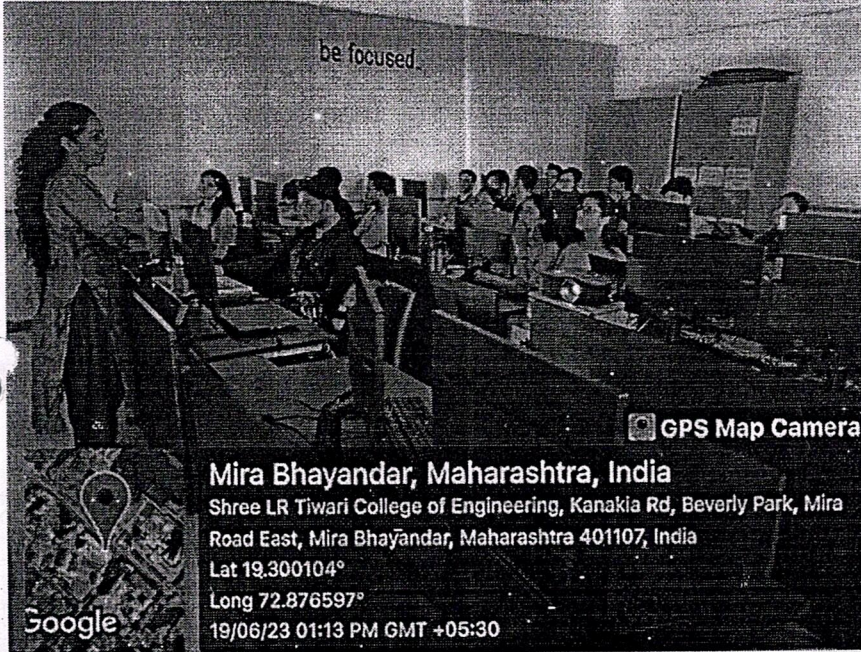




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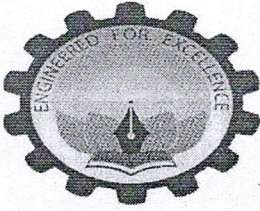


Course Coordinator  
Ms. Khushbu Tikhe

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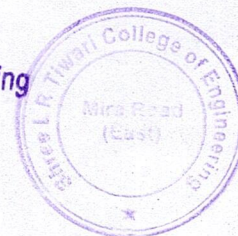
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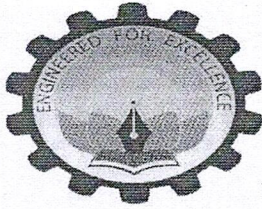
## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING Report on Add on Course on "5G Communication"

Title of the Session	5G Communication
Date	1/12/2022 to 7/12/2022 (Theory + hands on sessions)
Timings	Session 1:9:30 am to 12:30 pm Session 2:1pm to 4pm
Venue	313
Number of participants	105
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Objectives	The course should enable the students to: 1. Understand the basic working of a 5G communication system. 2. Apply the basic knowledge of communication to implement applications of 5G

  
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<b>Takeaways from the Session</b>	The Internship on 5G Communication was conducted by the Department of Electronics and Telecommunication Engineering. The session started with Basics of Communication, Concepts of Wireless Communication and evolution of Cellular communication from 1G to 4G. The comparative study of 1G to 4G was discussed. Then concepts and 3GPP standards of 5G were introduced. 5G network architecture, key enablers technologies, deployment of 5G was discussed in the course. Use cases of 5G were given to students. Hands-on training on Matlab was given to understand various concepts of 5G. Students studied various use cases and submitted reports.
<b>Outcomes (Mention if relevant to PO/PSO):</b>	<b>Students will be able to understand the</b> 1.Introduction to 5G 2.Architecture of 5G 3.Simulation of basic building blocks of 5G POs mapped: PO1,PO2, PO4,PO5,PO7, PO9,PO10,PO11,PO12 & PSO1
<b>Name of the coordinator</b>	Mrs. Aparna Majare

  
Mrs. Aparna Majare  
Course Coordinator  
(Name and Signature)

  
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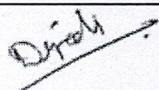


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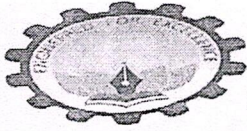
## Academic Year 2022 -2023 Report for Audit Course on “Environmental Ethics”

<b>Title</b>	Environmental Ethics
<b>Date</b>	August to October 2022
<b>Venue</b>	Seminar Hall, SLRTCE
<b>Number of participants</b>	181
<b>Objectives</b>	The course should enable the students : 1. To understand the concept of environmental ethics in engineering. 2. To realize the significance of nature in life. 3. To indoctrinate environmental ethics education in our students so that they remain committed to professional responsibilities relevant to nature. 4. To address graduate attributes 6,7,8,9,10 related to professional engineering practice, sustainability, ethics, teamwork and communication. 5. To inculcate qualities like cooperation and team building to function effectively as an individual and as a member in teams and multidisciplinary settings.
<b>Takeaways from the Session</b>	The Audit Course on “Environmental Ethics” was conducted by the Shree. L. R. Tiwari College of Engineering. Students are able to examine the principles that guide decision-making in environmental contexts, exploring the moral dimensions of human interactions with the environment.
<b>Outcomes</b>	The student shall be able to apply the knowledge to conserve and nurture environmental resources.
<b>Signature. of Audit Course Coordinator</b>	

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## DEPARTMENT OF INFORMATION TECHNOLOGY

### Report on Add on Course on "Game Asset Development using Blender"

Particulars	Description
Activity:	Technical
Title:	Add on course on <i>Game Asset Development Using Blender</i>
Duration :	30Hrs 19 <sup>th</sup> June 23 to 23 <sup>th</sup> June 23
Objective of event:	<ol style="list-style-type: none"><li>1. To understand the basic concepts of gaming software.</li><li>2. To understand the concept of machine learning.</li><li>3. To understand the 3D based game modelling.</li></ol>
Number of Participant	43
Outcome of event:	On successful completion, of course, the learner/student will be able to: <ul style="list-style-type: none"><li>• Understand and apply the basic concepts of gaming aspect.</li><li>• Will able to apply machine learning technology.</li><li>• Apply and evaluate your knowledge for the Contribute to 3D gaming modelling application</li></ul>
Targeted Participants:	Information technology, electronics and computer science, Computer engineering Students
Coordinator:	Mr. Manthan Joshi/ Mrs. Bhushana Thakur

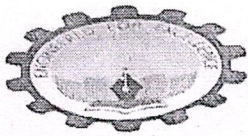
*M. J. Joshi*

Course Coordinator  
(Name and Signature)

*[Signature]*  
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Autonomous Status (Hindi, English)

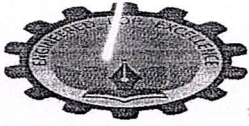


*M. J. J.*  
Course Coordinator  
(Name and Signature)

*[Signature]*  
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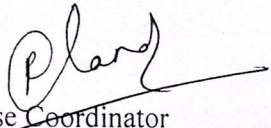




## DEPARTMENT OF INFORMATION TECHNOLOGY

### Report on Add on Course on “Machine Learning”

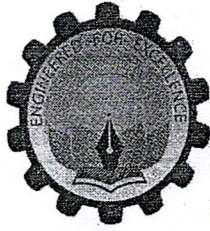
<b>Particulars</b>	Description
<b>Activity:</b>	Technical
<b>Title:</b>	Add on course on Machine Learning
<b>Duration :</b>	30Hrs
<b>Objective of event:</b>	<ol style="list-style-type: none"><li>1. Provide a fundamental understanding of what machine learning is and its basic concepts, algorithms, and applications.</li><li>2. Cover data cleaning, data normalization, feature engineering, and data transformation techniques to prepare data for machine learning tasks.</li><li>3. Develop problem-solving skills by working on complex machine learning challenges and projects.</li><li>4. Help students communicate their findings and machine learning insights effectively, both in writing and through presentations.</li></ol>
<b>Number of Participant</b>	311
<b>Outcome of event:</b>	On successful completion, of course, the learner/student will be able to: <ol style="list-style-type: none"><li>1. Understand the fundamental concepts of machine learning, including supervised learning, unsupervised learning, and reinforcement learning.</li><li>2. Implement and use a variety of machine learning algorithms and techniques, such as linear regression, decision trees, support vector machines, clustering, and neural networks.</li><li>3. Develop problem-solving skills by working on machine learning projects and applying their knowledge to real-world challenges</li></ol>
<b>Targeted Participants:</b>	Information technology, Electronics and computer science, Computer Engineering, Mechanical Engineering and Civil Engineering students
<b>Coordinator:</b>	Mrs. Rupali Pashte

  
Course Coordinator  
(Name and Signature)



  
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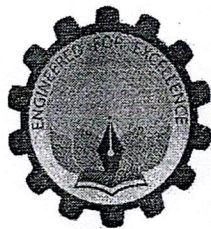
## DEPARTMENT OF COMPUTER ENGINEERING

### Report on Add-on Course on "Flutter"

Particulars	Description
Activity:	Technical
Title:	Add-on Course on "Flutter"
Duration :	30Hrs 26 <sup>th</sup> June 2023 to 1 <sup>st</sup> July 2023
Total No of Participant	70
Objective of event:	The objective of the Flutter add-on course is to supplement existing Flutter knowledge with advanced topics and specialized skills. This course aims to enhance participants' proficiency in Flutter development, covering topics such as advanced UI/UX design, platform-specific integrations, performance optimization, state management, and real-world app deployment strategies, empowering them to build robust and feature-rich Flutter applications.
Outcome of event:	On successful completion, of course, the learner/student will be able to: 1. Covering advanced Flutter concepts, techniques, and best practices beyond the basics. Focusing on specific areas such as advanced UI/UX design, animations, and platform-specific functionalities. 2. Teaching techniques to optimize app performance and responsiveness. Exploring various state management solutions for efficient data handling. 3. Learning strategies to deploy Flutter apps to app stores and manage app releases effectively. Understanding how to integrate external APIs and web services into Flutter applications.
Targeted Participants:	All SLRTCE Students
Coordinator:	Mrs. Neelam Phadnis

  
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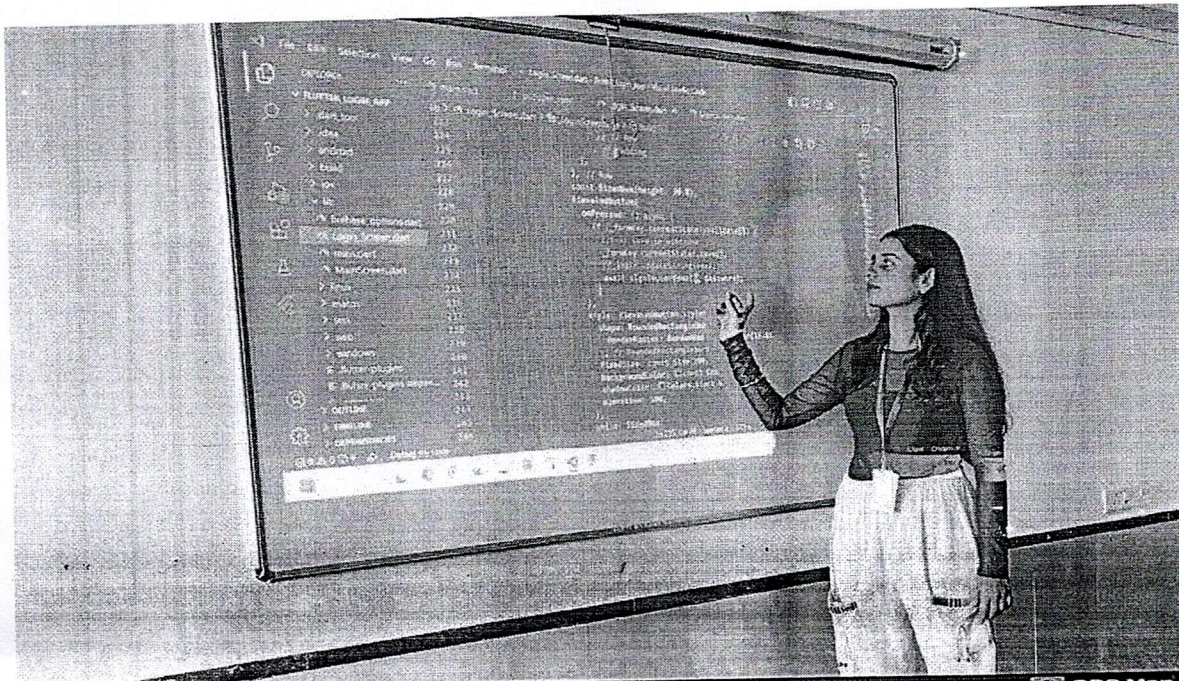


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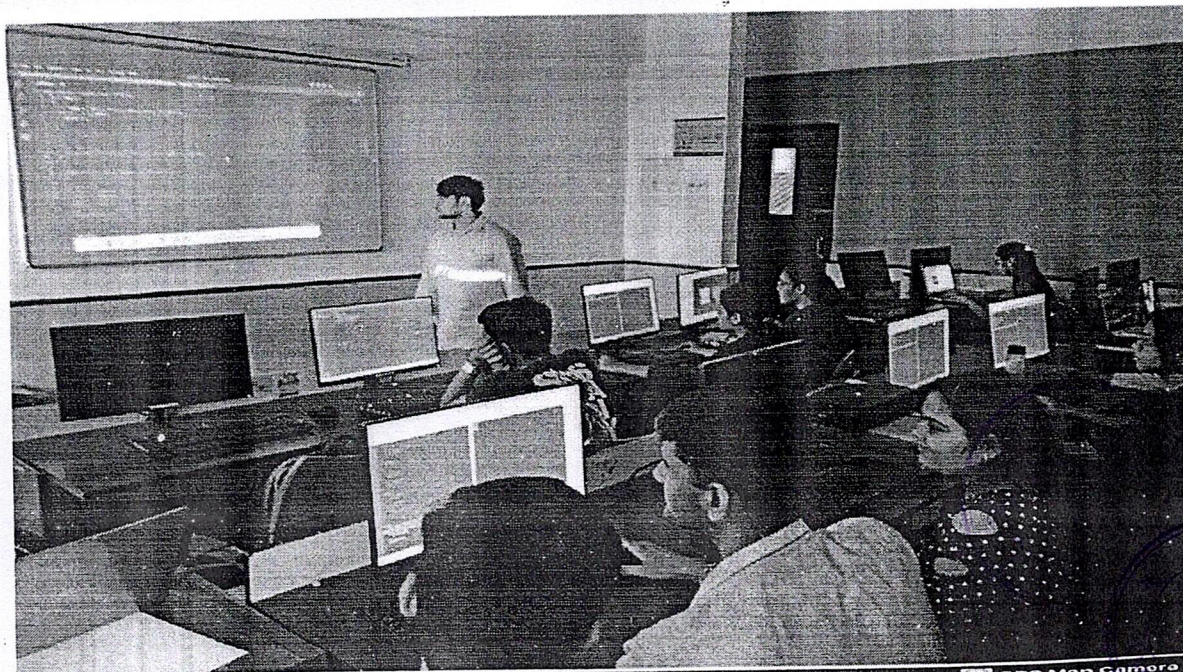
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## Photographs of Flutter Add-on Course:



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Shree L.R Tiwari College of Engineering  
Lat 19.30026° Long 72.87615°

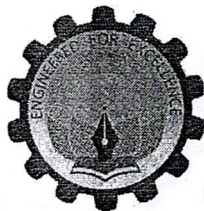


Mira Bhayandar, Maharashtra, India  
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Lat 19.30026° Long 72.87615°



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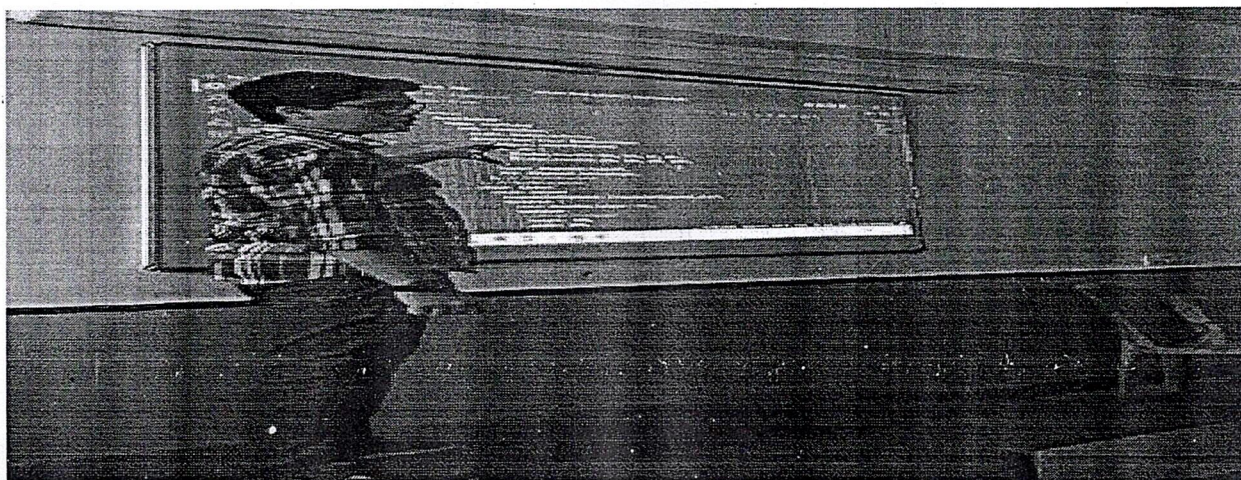
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GPS Map Camera



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