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SAPTHAGIRI COLLEGE OF ENGINEERING

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Index Sheet 1.4.2

Feedback process is classified as follows

Options

    A. Feedback collected, analysed and action taken and feedback available on website
    B. Feedback collected, analysed and action has been taken
    C. Feedback collected and analysed
    D. Feedback collected 5. Feedback not collected

Response: A Feedback collected, analysed and action taken and feedback available on website

Feedback from different stakeholders are collected, analysed and based on the feedback each department offered certification courses and organised guest lectures and technical talks.

Sl. No.	Department	Action taken	Page No.
1.	BT	Certification course on Forensic Science	2
2.	CSE	Certification course on Advanced JAVA	4
3.	CV	Certification course on REVIT	7
4.	ECE	I Certification course on mplementation of Image processing Algorithms	10
5.	ISE	Certification course on IOT blended with Blockchain Technology	12
6.	ME	Certification course on AutoCad	17

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Department of Biotechnology

## <u>Certificate Course –Forensic Science</u>

Post Event Report

Department of BT conducted Certificate Course on Forensic Science from 15[th]Nov 2021 to 19[th]Nov2021

Objective of the Course: The one week course made the students to be familiar with the major concepts in Forensic science which is a main platform for their career .Certificate Course became the vital step to improve the knowledge of students.

Resource Person: Mr. Prashanth Kumar H P, Assistant Professor, Sapthagiri College of Engineering Bangalore

Duration of the course: Five Days from15[th]Nov 2021 to 19[th]Nov 2021

Student Participants in certification Program
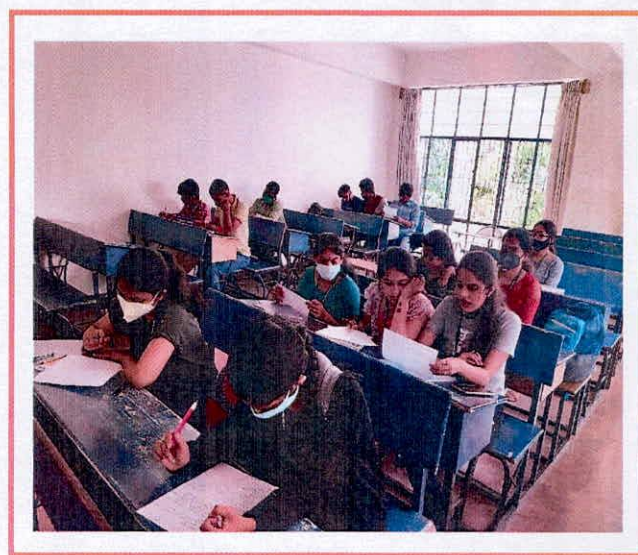
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Department of Biotechnology

Dates	Report
15/11/2021	Introduction to forensic science,Characterization of blood- Blood group identification
16/11/2021	Dactyloscopy: Identification of whorls, loops, arches in fingerprints
17/11/2021	DNA Analysis : Extraction of DNA, Quantification and analysis
18/11/2021	Toxicology of alcohol: Estimation of alcohol in the given sample
19/11/2021	Forensic Imaging: Study of camera components and its functions.

Conclusion:A program of education resulting in a certificate of completion rather than a degree. These programs prepare students to complete a specific task or allow them proficiency in one of the particular aspect of their field.Students were benefit with programming skills .Students pursues certificates in order to get ahead in the professional field of their interest.

HOD, BT

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Principal
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Department of Computer Science & Engineering
Academic Year: 2021- 2022

Report on "Certification Course on Advanced Java"

The Department of Computer Science & Engineering organized Certification Course on Advanced Java from 27/09/2021 to 01/10/2021 for fifth semester students of CSE dept. The students participated in the event.

- **Objective of theCertification Course on Advanced Java**: The objective of the course was to enhance knowledge in Java programming as per industry standards.

- To evaluate the knowledge of the participants within academics as well as beyond academics and to make them familiar with the requirements of Industries.

- The main purpose of this event was to help the students to provide knowledge about Advanced Java as per the industries requirement. This event motivated students to know the industries standards to prepare for placement process.

- **Title of the event:** "Certification Course on Advanced Java"

- **Date**: 27/10/2021 to 01/10/2021

- A 5-day program for 30 hours was planned, for students. Our in-house faculties trained all the students of fifth semester

Day-1

The session was started with the welcome speech by Prof. Prakruthi C followed by invocation song, sung by Prof. Prakruthi. Dr Ramakrishna H, Principal Inaugurated and addressed the gathering.

Dr Kamalakshi Naganna, HOD gave the introduction to Certification Course to students.

The First session was from 8.30 to 10.30 am on **Java's magic** followed by Second session on **inheritance** from 10.50 to 12.50 noon. The Afternoon session was from 1.30- 04.30 pm Hands on session for the topics discussed in the forenoon.
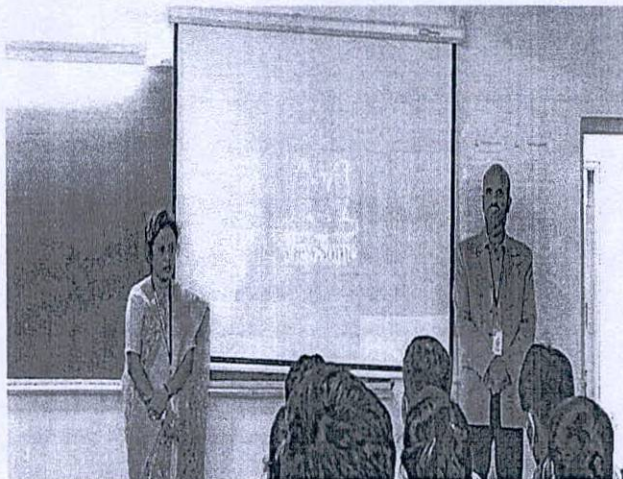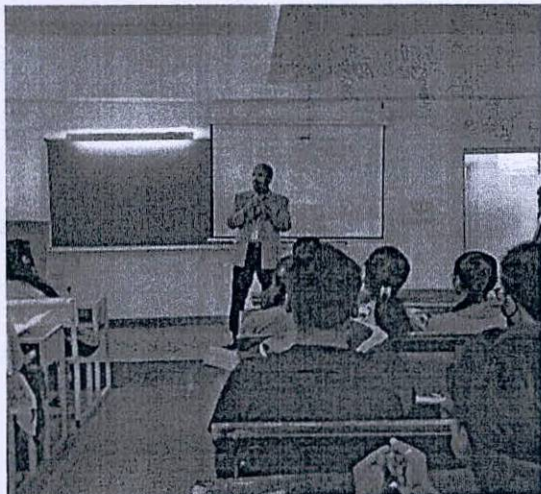
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Department of Computer Science & Engineering
Academic Year: 2021- 2022

Day-2

The First session was from 8.30 to 10.30 am on **Multi Threaded Programming** followed by Second session on **Applets and Swings** from 10.50 to 12.50 noon. The Afternoon session was from 1.30- 04.30 pm Hands on session for the topics discussed in the forenoon.

Day-3

The First session was from 8.30 to 10.30 am on **Collection framework** followed by Second session on **Collection framework** from 10.50 to 12.50 noon. The Afternoon session was from 1.30- 04.30 pm Hands on session for the topics discussed in the forenoon.

Day-4

The First session was from 8.30 to 10.30 am on **Collection Interface** followed by Second session on **Collection Interface** from 10.50 to 12.50 noon. The Afternoon session was from 1.30- 04.30 pm Hands on session for the topics discussed in the forenoon.

Day-5

The First session was from 8.30 to 10.30 am on **Collections in Java** followed by Second session on **Collections in Java** from 10.50 to 12.50 noon. The Afternoon session was from 1.30- 03.00 pm Hands on session for the topics discussed in the forenoon. Test conduction from 3.00 to 4:00 pm The Program ended with a valedictory function from 4.00-4.30 pm
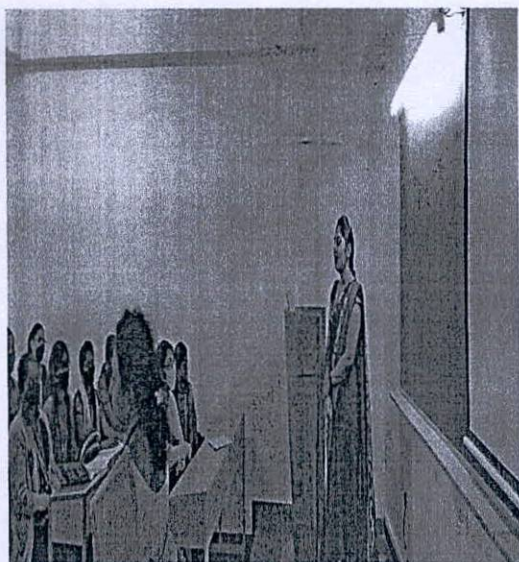
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Department of Computer Science & Engineering

Academic Year: 2021- 2022

Screenshot of the CC

Principal and HOD addressing the gathering
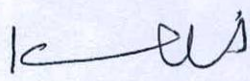
Invocation Song by Prof. Prakruthi C

Lecturing on Classes and Inheritance

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	2	3	3	1	3		1	3	3	2	3

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Professor & Head of the Department
Computer Science Engineering
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AY:2021-2022

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON *"Hands-on Training on Revit Architecture"*

Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru has arranged a Workshop on Revit Architecture for students of 6th semester from **27/05/2022 to 04/06/2022** in association with *'Autodesk ATC CAD CENTER, Bangalore'*. Seminar was co-ordinated by Prof. Pramod K R, Prof. Shobha Y N.

The inaugural function of workshop was by Dr.Rajeshwari R Head of civil Department on starting day of workshop in the presence of faculties and students.
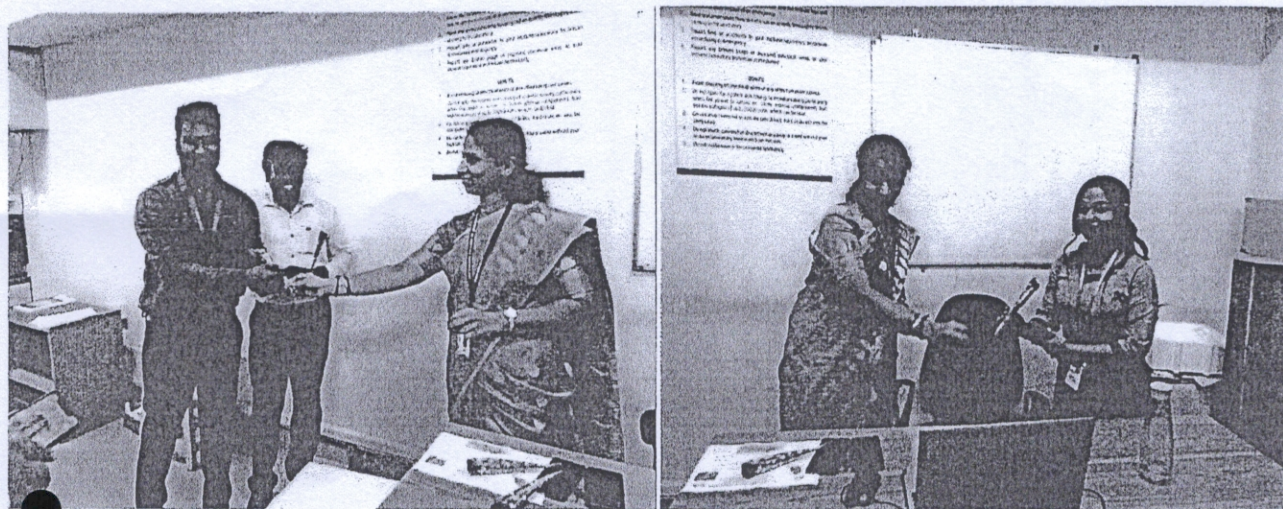
Mr.Viswas K Viswanathan, Operation & Marketing manager Autodesk ATC CAD CENTER, Bangalore and Mr. Sunil Kumar took over the session for inaugural and introductory speech about the software. Ms. Rituparna was trainer for the workshop. 20 students have registered and benifited.

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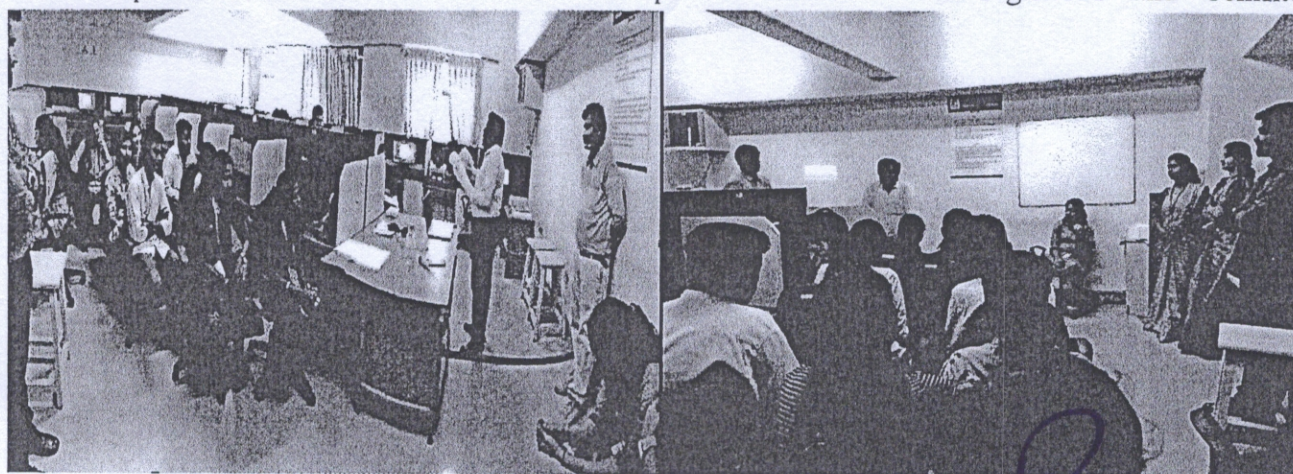
About software

Revit is software mainly used for 3D Modeling or BIM (Building Information modeling). It will create a perfect scenario of what is going to happen at the construction site. So basically all the design clashes will be able to rectified using the Revit Model. Moreover, there is option for Structural Design and Analysis of Framing, Columns, Slabs etc. We can use this software for Rebar detailing. And the most important one is cost reduction in Estimation of the project as we can purge all the unwanted and unused materials.

Day wise summary of the workshop

Day	Time	Topic covered
Day 1 Friday	1.30pm to 4.30pm	User Interface The Ribbon Framework About Building Elements About Families About Projects
Day 2 Saturday	1.30pm to 4.30pm	About Project Templates. About the Default Project Template
Day 3 Monday	1.30pm to 4.30pm	About Revit File Types Aids About Wall Properties Modifying Walls About Joins Editing and Preventing Wall Joins
Day 4 Tuesday	1.30pm to 4.30pm	About Compound Walls About Modifying
Day 5 Wednesday	1.30pm to 4.30pm	About Vertically Compound Walls Edit Tools Clipboard Tools
Day 6 Thursday	1.30pm to 4.30pm	Creating a New Door Type About Windows Process of Adding and Modifying Windows Floors Modifying Floors
Day 7 Friday	1.30pm to 4.30pm	About Temporary Dimensions About Permanent Dimensions About ConstraintsApplying and Removing Constraints
Day 8 Saturday	10.30am to 4.30pm	Practice
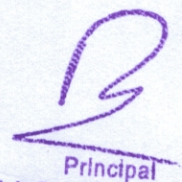
Outcomes of Workshop

1. To be familiar with advanced Civil Engineering Software like Revit architecture and its use in our field: After the completion of the workshop students are now familiar with the use of this software to draft the plan, elevation-sections, to update floor plans, floor levels and to develop the 3D views.

2. To Produce consistent, coordinated and complete model-based building designs and Documentation: After competition of the workshop students are able to produce complete model based building design with the help of Revit Architecture software.

3. Use 3D visualisations to see a building before it's built.

- All the students were motivated by the training program and encouraged to participate in co-curricular activities conducted by the Department of Civil Engineering.

HOD

HOD, Dept. of Civil Engg.
S.C.E, Bangalore-560 057

Principal
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Certification Course Report on Implementation of

Image Processing Algorithms using Matlab

Department of ECE conducted Certificate Course on Implementation of Image Processing Algorithms.

- **Resource Person**:   Prof. Agalya P. & Prof. Shobha S.
- **Duration of the course**: 5 days from 16.05. 2022 to 20.05.2022
- **Course detail:**
- **Objective of the Course:** The five day course is to make the students to be familiar with the major concepts in Image Processing Algorithms and its implementation which is a main platform for their career in multimedia communication. Certificate Course can be a vital step to improve the knowledge of students.

Course Report:

Date	Outcome of the course
16.05.2022	Students were introduced to Image processing toolbox, Display of Gray Scale Images, Read different attributes and display of color images with hands on session.
17.05.2022	Students had a practical session on spatial domain filters and histogram Equalisation
18.05.2022	Students had a practical implementation of different image transformations used in compression.
19.05.2022	Students learnt different edge detection techniques with Hands on session
20.05.2022	Speaker learnt different segmentation techniques with Hands on session

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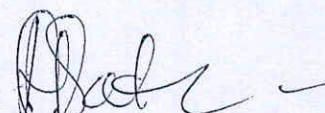
Students attending the course

Conclusion:

Certificate course made them comfortable with the concepts of Implementation of Image Processing Algorithms. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. A sense of satisfaction was also seen from students. Faculty members were also equally benefited with the course. This Course helped the student to improve their knowledge in Digital Image Processing Applications.

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HOD

(Coordinator)

Certification Course Report

Department of ISE conducted Certification Course on **"IOT Blended with Blockchain Technology"GuestSpeaker**: Prof. Basavaraj, Assistant professor Department of ISE, Sambhram Institute of technology, Bengaluru.

Duration of the course: Six days from 23-Sept-2021 to 29-Sept-2021

Course detail

Objective of the Course: The six days course made the students to be familiar with the major concepts in automation using python which is a main platform for their career .Certification Course became the vital step to improve the knowledge of students

Certification course made them comfortable with the IOT and Blockchain concepts. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Speaker took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side.

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DEPARTMENT OF ISE

Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm)		Name of Faculty Session Handling
23-09-2021	• Introduction to the Internet of Things • Introduction to Raspberry Pi	• Introduction to Blockchain • Introduction to Hyperledger	• Hands on - Session • Distributed Ledger Technology • Scalability in DLT of Blockchain	S1: S2: S3:	Prof.Basavaraju Prof. Priyanka R Prof. Basavaraju
24-09-2021	• IoT Architecture • Recent protocols in IoT (6LoWPAN, RPL, MQTT, Zigbee) •	• Ways to strengthen iot security with blockchain technology • Components of Blockchain .	• Hands on - Session • Building the First Network Configuration	S1: S2: S3:	Prof. Gayathri R Prof. Chaithanaya V Prof.Basavaraju
25-09-2021	• Sending IoT Data to Blockchain • Extending the App to send multiple data	• IOT Paradigms • Blockchain v/s Bitcoin	• Build trust in your IoT data Customer centric	S1: S2: S2/ 3:	Prof. Ramya R Prof. Roopa K T

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| Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm) Detailed Contents		Name of Faculty Session Handling
27-09-2021	• Extending the App to send multiple data • Real-world solutions	• Roadmap of Blockchain & IoT • Industrial IoT requirements	• Hands on IOT –Networking Config to Cloud Data and data sets.	S1: S2: S3:	Dr. Asha P N Prof.Sowmya Somanth
28-09-2021	• Cloud-centric Internet of Things • Data pre-processing and analysis •	• Building the First Network Configuration • M2M to IoT	• Potential IoT applications like Smart health, Smart home, etc. • Practical demonstration using Thing speak	S1: S2: S3:	Prof.Prerana Chaithra Prof. Chaithra B M
29-09-2021	• Security and privacy issues in IoT • Energy harvesting for IoT applications • Research challenges in IoT	• Building First Hyper ledger App and Interactive Session with students		S1: S2: S2/3:	Prof. Sudarsanan D Prof. Divya B S

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Conclusion: The optimistic learning environment prompted motivation in the learning of the students. They felt bonhomie after the course they took. A sense of satisfaction was also seen. Faculty members were also equally benefited with the course. A structured environment was created. This helped in the smooth flow of academic lesson plan by adhering to the timelines. This Course helped the student to improve their knowledge in IOT & Blockchain.

Glimpse of Certification Course-2021-22

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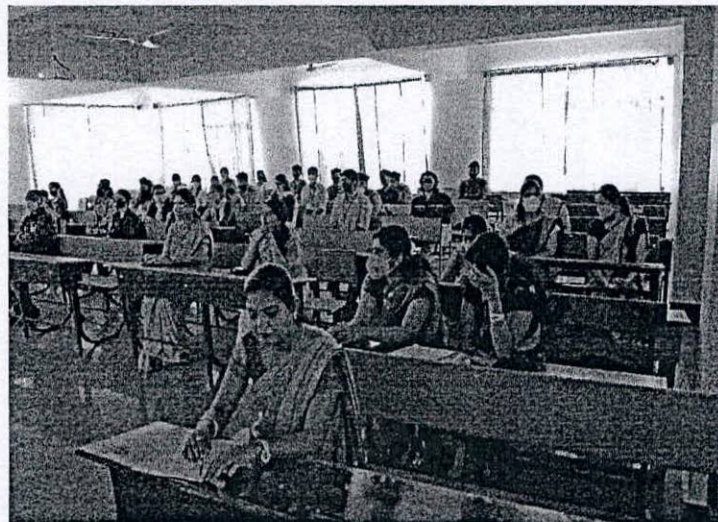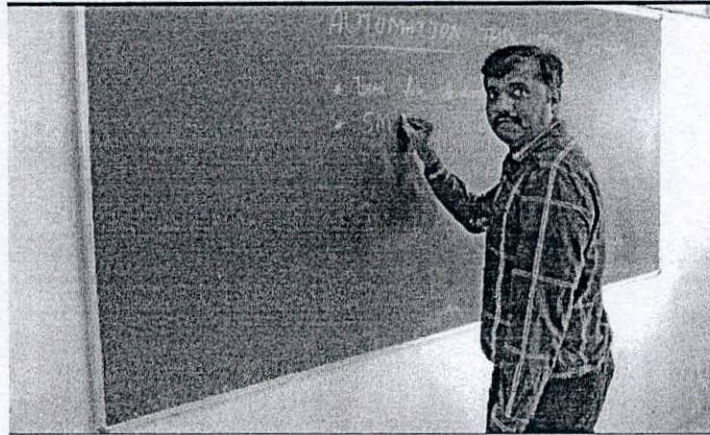
6 days Certification course on **"IOT Blended with Blockchain Technology"** by Prof. Basavaraj, Assistant professor Department of ISE, Sambhram Institute of technology, Bengaluru from 23-Sept-2021 to 29-Sept-2021.

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HOD
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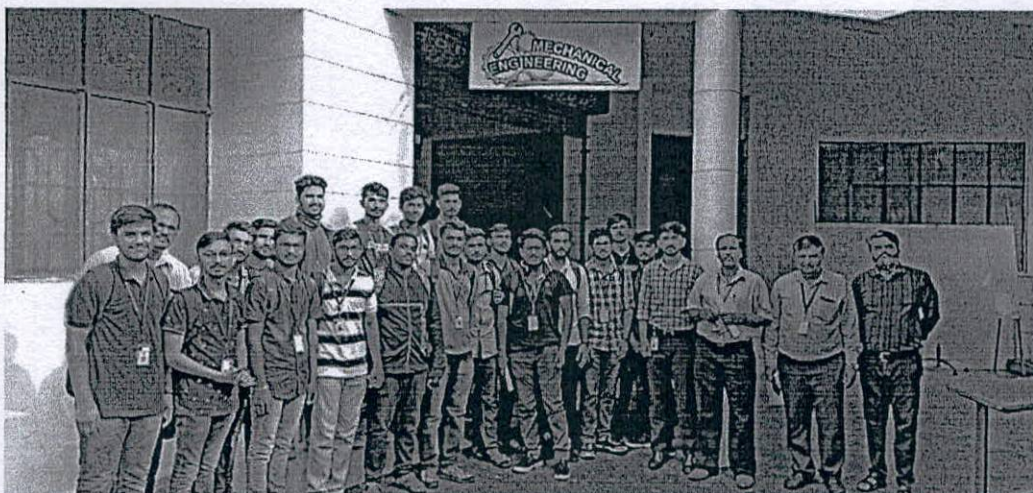|	
*Type of event/activity	**Workshop for Students**
Name/Title of the Activity/Event	**Five Days Workshop on AutoCAD**
Date of Organization	04/10/2021 to 08/10/2021
Venue ith address)	College campus – Sapthagiri College of Engineering
Organized by	Sapthagiri College of Engineering, Bengaluru
Objectives of the event/activity	1. Provide an opportunity for students to develop skills in AutoCAD. 2. Create opportunity for students to teach, discuss and learn about AutoCAD software. 3. To provide an opportunity to students to develop drawings of Engineering components / Machines etc. 4. To prepare assembly / 3D Models using AutoCAD software.
Participants (Please attach list of participants, if it is organized/conducted in the dept.))	76
Mention organized /participated/attended	76 Students of 5th Semester Mechanical Engineering participated in workshop.
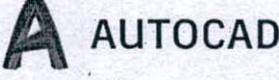
Event Description:

A five day workshop on AutoCAD was organized by department of Mechanical Engineering for 5th Semester students. Prateek and Nrupada Ramesh students of 5th Semester Mechanical Engineering who have done certification course in AutoCAD, were the instructors for the workshop. The workshop was held for five days in computer aided machine drawing lab and all the participants were awarded with participation certificate.

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Images: