AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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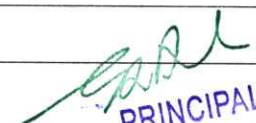
Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tool including online resources for effective teaching and learning process.

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2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tool including online resources for effective teaching and learning process.

Avanthi Institute of Engineering &Technology provides an effective platform for students to develop latest skills, knowledge, attitude, values to shape their behavior in the correct manner. All departments conduct innovative programs which stimulate the creative ability of students and provide them a platform to nurture their problem-solving skills and ensure participative learning. The institute organizes annual technical fest in which students showcase their learning in the form of innovative projects. Also, students are motivated to participate in inter college as well as national level competitions.

Teachers actively use ICT tools for making power point presentations. Teachers also actively encourage students to take up online MOOCs courses that are given credits. In addition to the regular class work teaching methodology.

The institute focuses on the student-centric methods of enhancing lifelong learning skills of students. Faculty members make efforts in making the learning activity more interactive by adopting the below-mentioned student-centric methods.

1. **Experiential Learning**

2. **Participation Learning**

3. **Problem-solving methodologies.**

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1. Experiential learning

Experiential learning is the process of learning through Experience Hands-on learning can be a form of experiential learning. The students are taught and encouraged to practically test the concepts that they theoretically learnt in the classroom. The Faculty, Technical Staff helps the students to conduct experiments. Students are given time slots to do additional and entrancing experimental work. Students are also encouraged to do Internship with the industry during the academic semesters.

It encompasses:

1.1 Laboratory Sessions with advanced experiments.

1.2 Add-on Courses on latest technologies.

1.3 a) Internship to expand the knowledge on market trends.

b) Project Development.

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1.1 Laboratory Sessions with advanced experiments

Laboratories are the best way to provide experiential learning to the students. Laboratories provide first hands-on-working experience to the engineering students. Practical work carried out in the lab helps them become more knowledgeable, confident and improve their engineering skills. It enhances the experiential and problem-solving based learning in the students.

Advanced Experiment on Engineering Physics for 1st year students

Advanced Experiment on Engineering Chemistry for 1st year students

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Advanced Laboratory session on Thermal Engineering for MECH students

Advanced Electrical and Electronics lab for EEE Students

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1.2 Value Added Courses on latest technologies

Add-on course is work added to the compulsory assignments, which is not necessary for each and every individual. These courses are a way to add extra credits in the student's to make him/her enhance grades and marks. Outcome of add-on course is to develop additional skill of the student for practical know ledge in various fields and provide an opportunity to go beyond their curriculum.

Certification Programs for Students
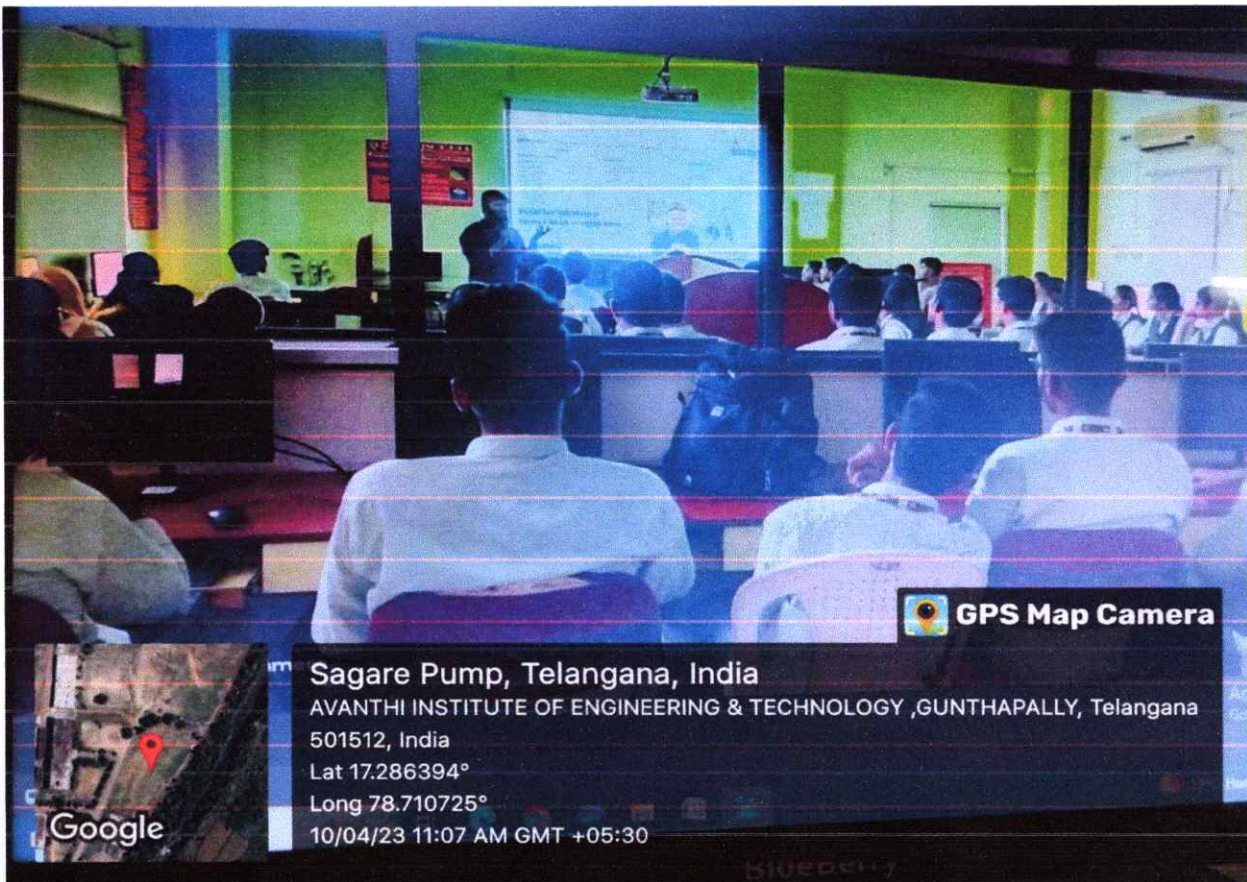
Value Added Course on PEGA Software for IVth year students

Add-on course Pega:- (Pega is a BPM tool that allows you to build scalable Customer Relationship Management (CRM), process automation, Case Management, and Artificial Intelligence (AI) apps, all on one unified platform. Pega Developers are skilled Software Developers who design and deploy enterprise-level applications on Pega PRPC)

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Value Added Course on Power BI Developer for IIIrd year students

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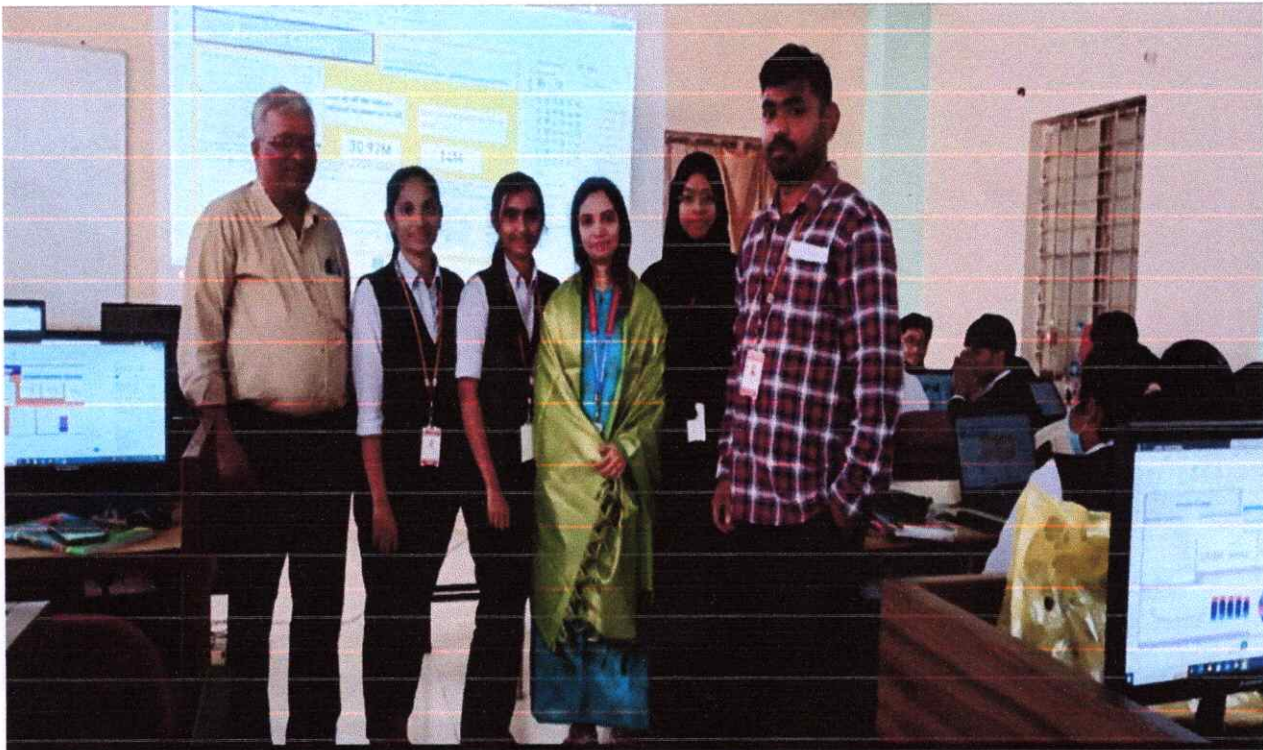Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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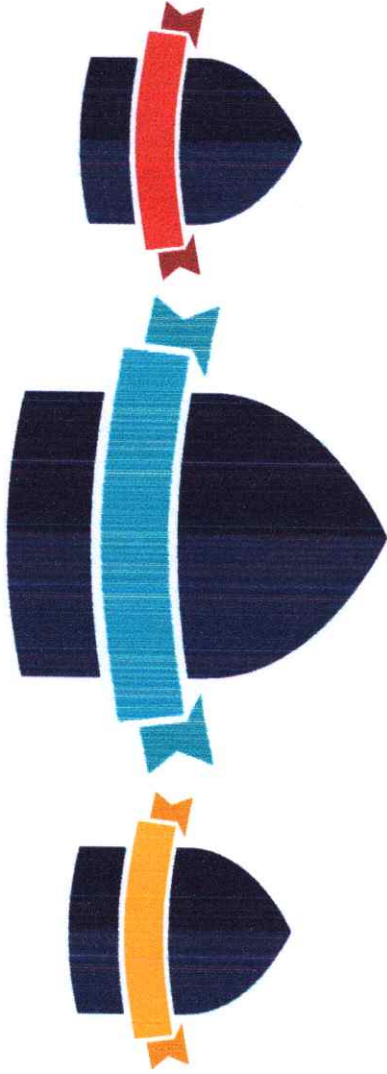(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

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SAMPLE CERTIFICATES OF VALUE ADDED COURSES

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Certificate Of Achievement

Awarded to

Ganesh Nagulapally

In Recognition of Successful Completion of

Certified Pega System Architect

Awarded on

August 7, 2023

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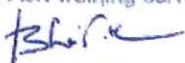
Alan Trefler
Chairman and Chief Executive Officer

PEGA
Academy

ASK Training Services

This is to certify that Mr./Ms Ganji Aditya bearing

Reg.no 22Q61D5801 Has completed **"A compile guide to**

java spring mvc" conducted at Avanthi Institute of

Engineering&Technology,gunthapally,abdullapurmettu,Ra

gareddy. In association with 'ASK Training Services' from

05/06/2023 to 10/06/2023.

For ASK Training Services

Proprietor

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1.3. Internship to expand the Knowledge on market trends:

a) **Internships:** An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills.

b) **Project Development:** Engineering projects are an excellent way to incorporate your theoretical knowledge into practicality. Projects offer the opportunity to apply and extend material learned throughout the program. Assessment is by means of a seminar presentation, submission of a thesis, and a public demonstration of work undertaken.

c) **Community Service Project:** Community Service Project is an experiential learning strategy that integrates meaningful community service with instruction, participation, learning and community development. It involves students in community development and service activities and applies the experience to personal and academic development. It is meant to link the community with the college for mutual benefit. The community will be benefited with the focused contribution of the college students for the village/ local development. The college finds an opportunity to develop social sensibility and responsibility among students and also emerge as a socially responsible institution. Percentage of students undertaking project work/field work/internships (Data for the latest completed academic year).

Glimpses of the Internship program

Internship on Full stack Python by MANAC InfoTech Pvt. Ltd. For all IVth year students

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Internship on Full Stack JAVA by MANAC Infotech Pvt. Ltd. Hyderabad IVth year all students

Sample Project Development Photographs

A project on "Fabrication of Solar Air Purification System for Control of Air Pollution" carried out by the students of MECH.

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A project on "CAR Reverse Parking System" carried out by the students of ECE.

A project on "Smart Anti Theft Security System using IOT " carried out by the students of ECE

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A project on "Soil Moisturizing monitoring system by using IOT " carried out by the students of CSE

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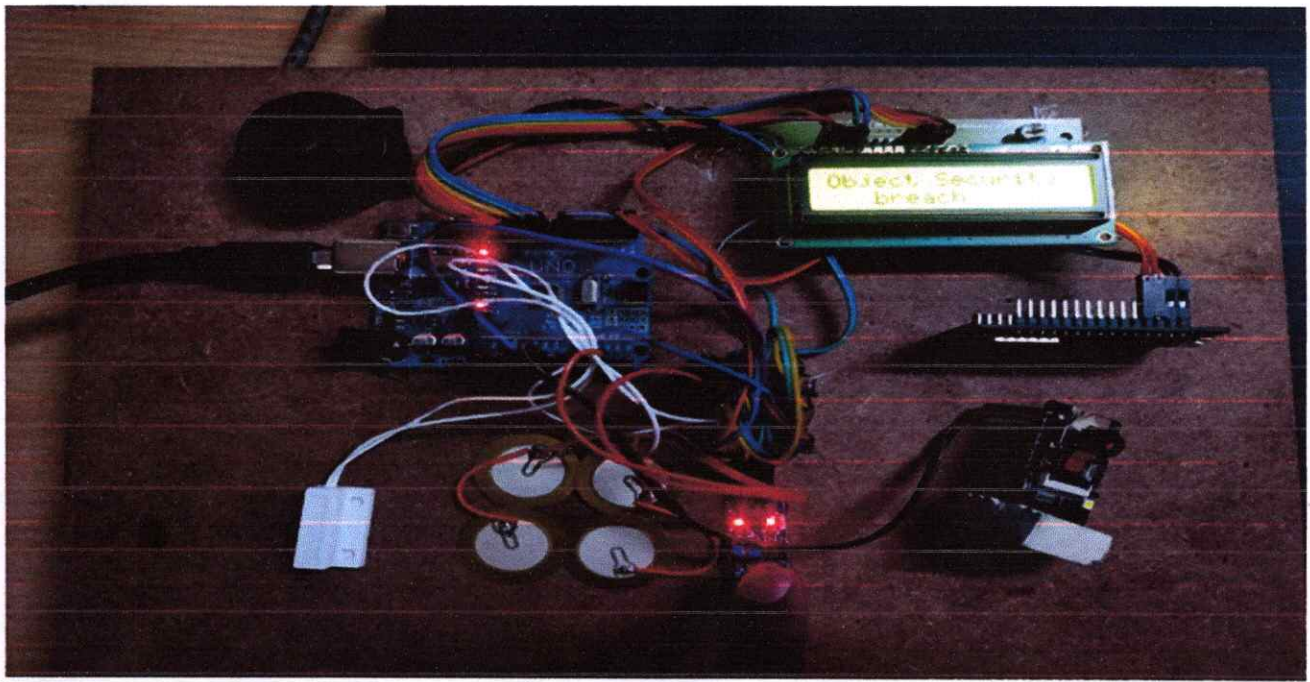
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Field Visit for Community Service Project-III B.Tech Students

Field Visit for Community Service Project-III B.Tech Students

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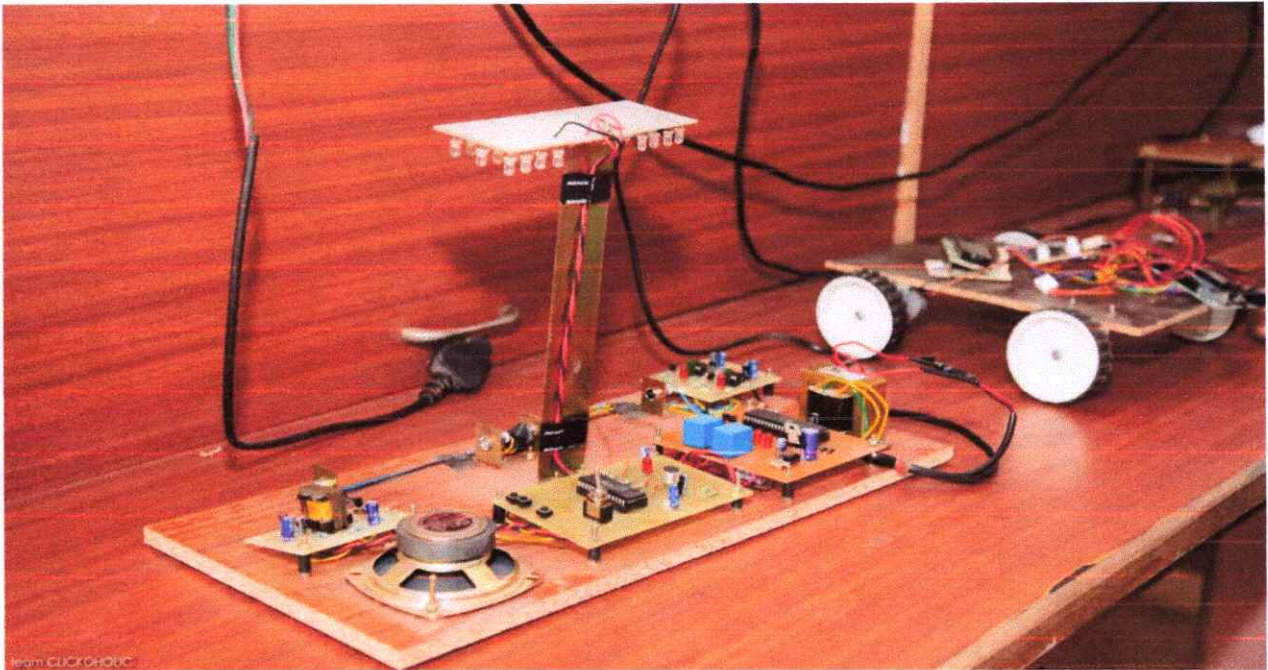Avanthi Institute of Engineering and Technology

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SAMPLE COPIES OF INTERNSHIP

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MANAC
Infotech (P) Limited

Development * Training * Staffing * Recruiting

Certificate of Participation
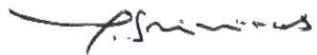
This is to certify that

Mr./Miss _**Bandari Srikanth Reddy**_

has successfully completed Internship in

FULL STACK PYTHON PROGRAMMING

From December 2020 to April 2021.

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Cert No: MIPL/20-21/2128

Director

1-2-524/3/E/301-305, Sagar View Complex, Gaganmahal, Hyderabad - 500029.

16

MANAC
Infotech (P) Limited

Development * Training * Staffing * Recruiting

Certificate of Participation

This is to certify that

Mr./Miss _____ *Chelamala Penchalaiah* _____

has successfully completed Internship in

FULL STACK JAVA PROGRAMMING

From December 2020 to April 2021.

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Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Director

Cert No: MIPL/20-21/2105

1-2-524/3/E/301-305, Sagar View Complex, Gaganmahal, Hyderabad - 500029.

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2. Participative Learning

In this type of learning, students participate in various activities such as seminar, group discussion, wall papers, projects, and the skill based add on courses. Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as

2.1 Seminars/Presentations

2.2 Industrial Visits

2.3 Student club activities

2.4 Role Play

2.5 Brainstorming session

2.6 Guest Lectures

2.7 Project Exhibitions

2.8 Work shops
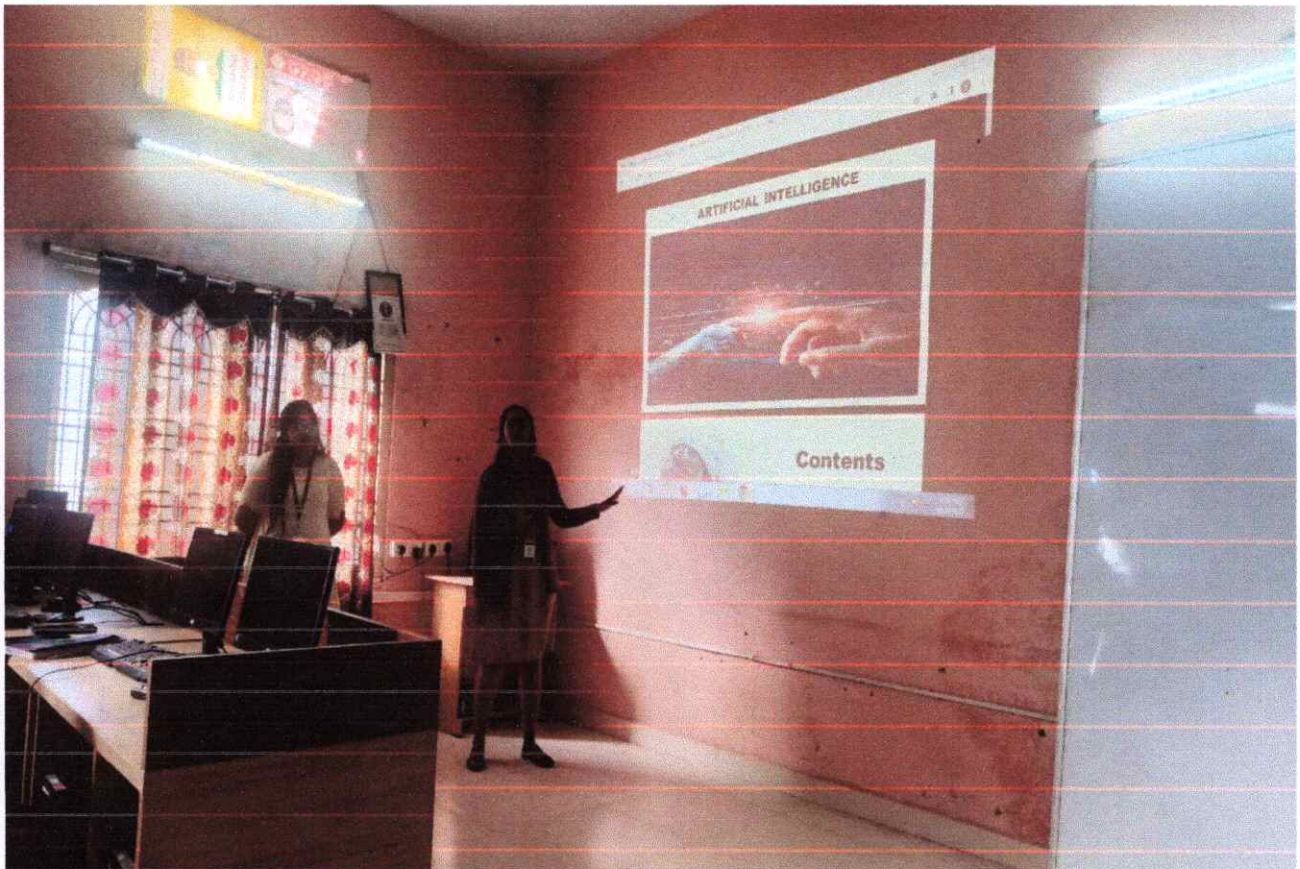
2.9 Mock Interview

2.10 Group discussion

2.11 Case Study

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2.1. Seminars/Presentations

A "Seminar" is a meeting for discussion or training. In the academic sphere, a seminar is a class at a university or a college where a small group of students and a teacher discuss a particular topic. Presentation is the way in which something is offered, shown, or explained. A seminar is an informal talk about your findings or research. So a seminar presentation can be defined as a small group of persons in a class or in an organization assembled to have an exchange of views on a particular topic. The participants express their views on the given topic in an informal way. So a seminar is a very enlightening and effective information sharing process. Holding a seminar is a teaching-learning process.

Technical Seminar on Topic Artificial Intelligence B.Tech IInd Year CSE Students

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Technical Seminar on topic Cloud Computing B.Tech IVth year CSE-AI&ML students

Technical Seminar on topic Data Analytics B.Tech IInd year ECE students

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2.2. Industrial Visits:

Industrial visit are an essential part of the academic curriculum in most of the Graduate and Post graduate courses. Being a part of interactive learning, such educational visits give students a major exposure to real working environments along with practical perspective of a theoretical concept relevant to their domain which lead the students to understand better management skills, leadership skills, team player attitude, etc.

Fwd: Invitation to Participate in the C-DAC Hyderabad Tech Show on 30.09.2023 Inbox x

swamy rao <placements@avanthi.edu.in>

to me

5:02 PM (1 hour ago)

--------- Forwarded message ---------
From: M Kumar <mkumar@cdac.in>
Date: Sat, Sep 23, 2023, 1:14 PM
Subject: Invitation to Participate in the C-DAC Hyderabad Tech Show on 30.09.2023
To: avanthi.principal@gmail.com <avanthi.principal@gmail.com>, placements@avanthi.edu.in <placements@avanthi.edu.in>
Cc: Director@C-DAC HYD <directorhyd@cdac.in>

To,
The Principal,
Avanthi Institute of Engineering & Technology,
Gunthapally(V), Abdullapurmet(M),
R.R Dist. 501 512

Dear Sir,

Greetings from the Centre for Development of Advanced Computing (C-DAC),

Kindly refer to our telephone conversation on the above subject

C-DAC is the premier R&D organization of the Ministry of Electronics and Information Technology (MeitY), Government of India carrying out Research and Development (R&D) in IT, Electronics, and associated areas.

C-DAC Hyderabad centre is actively contributing to Cyber Security, Blockchain Technology, Quantum Computing, Strategic Electronics, Embedded Systems & Internet of Things (IoT), Educational Technologies, Software Technologies, etc. The centre is involved in R&D, Product/Solution development, Services, and Capacity Building and Skilling activities. As part of C-DAC Hyderabad Silver Jubilee celebrations, we are organizing a Tech Show on Saturday 30.09.2023 for the engineering students and faculty.

Timing - 2 PM to 4 PM (Time Slot Given to Avanthi Institute of Engineering & Technology)

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Avanthi Institute of Engineering and Technology

Compose

Inbox	242
Starred	
Snoozed	
Important	
Sent	
Drafts	1
Categories	
Social	
Updates	102
Forums	
Promotions	4
More	

Labels

[Imap]/Trash

books

Boxbe Waiting List

files

Personal

More

Fwd: Invitation to Participate in the C-DAC Hyderabad Tech Show on 30.09.2023 Inbox ×

swamy rao <placements@avanthi.edu.in>

to me

Sat, Jan 6, 5:02 PM (3 days ago)

---------- Forwarded message ----------
From: **M Kumar** <mkumar@cdac.in>
Date: Sat, Sep 23, 2023, 1:14 PM
Subject: Invitation to Participate in the C-DAC Hyderabad Tech Show on 30.09.2023
To: avanthi.principal@gmaill.com <avanthi.principal@gmaill.com>, placements@avanthi.edu.in <placements@avanthi.edu.in>
Cc: Director@C-DAC HYD <directorhyd@cdac.in>

To,
The Principal,
Avanthi Institute of Engineering & Technology,
Gunthapally(V), Abdullapurmet(M),
R.R Dist. 501 512

Dear Sir,

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Industrial Visit to C-DAC by B.Tech IIIrd and IVth year students

On the occasion of C-DAC Hyderabad silver jubilee celebrations, they cordially invited our institution to visit their facility to witness the activities and their success stories. This Industrial Visit is mainly for B.Tech 3rd and 4th year Students to get the knowledge on, ongoing Initiatives and knowing about skill development programs like "Cyber security", "Black chain" and "AI/ML", "Internet Of Things", 3D Printing, Quantum printing.

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Industrial Visit to T-HUB by the II year ECE students

INDUSTRIAL VISIT TO T-HUB for all IInd year ECE Students by getting the knowledge on T-HUB's theme on revolving around fostering innovation, supporting startups, and driving entrepreneurship in various technology domains. While specific themes may evolve over time, the core focus areas typically include technology, innovation, and the development of a vibrant startup ecosystem.

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INDUSTRIAL VISIT TO BHARAT DYNAMICS LIMITED by IIIrd Year MECH students

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Industrial Visit to Infosys by CSE&CSM&CSD IInd year Gilrls

Industrial Visit to Infosys by CSE IInd year students by getting the knowledge on women empowerment seminar by Manisha Saboo the vice president of Infosys.

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Industrial Visit to COCO-COLA company By MBA students

The visit started with a cool welcome in the form of a fridge full of Coca Cola drinks for everyone. The students were then asked to visit a wall where fun facts about the main products of the company were presented in an attractive manner. After a brief video highlighting the facts about the company, the excited visitors were taken to various sections of the plant where they were explained the functioning and the processes which the students were able to see directly as well. The students asked countless questions about the drinks and the processes along with the controversial issues related to the products which were responded with facts and pleasure. The representatives showed and gave information about the various shapes of the bottles of Coca Cola since its introduction and their respective reasons. The last phase of the visit was a brief about the various CSR initiatives which the company has undertaken.

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Industrial Visit to DRDO By IIIrd ECE and CSE students

Industrial Visit to DRDO By IIIrd ECE and CSE students to understand the role of DRDO-ADE in enhancing the defense capabilities of the nation and to observe the state-of-the-art facilities and infrastructure available at the establishment. The industrial visit started with a brief introduction to DRDO-ADE, its history, and its contributions to aeronautical research. The participants were then divided into smaller groups and assigned guides who accompanied them throughout the visit.

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**Industrial Visit TO BSNL for IInd year ECE students**

For IInd year ECE students an Industrial Visit to BSNL was conducted. The Sub divisional engineer of BSNL divided the students into three groups and each group were thought about different modules namely switching, transmission and MDF (Main distribution function). In switching module, students learnt on practical aspects of call making and receiving. They were thought on how to create the calling number and how to check the dial tone. In transmission module, students were briefed about OFC communication and its uses, advantages, applications. The students were shown the real cables and its working procedure. In the MDF module, students learnt about the requirement of main distribution function. They were briefed about line side and exchange side of MDF.

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2.3. Students Club Activities

Student Club Activities help students develop sense of unity and teamwork, learning how to work with others in reaching the same goals. These clubs helps the students to learn new activities from experts and peers.
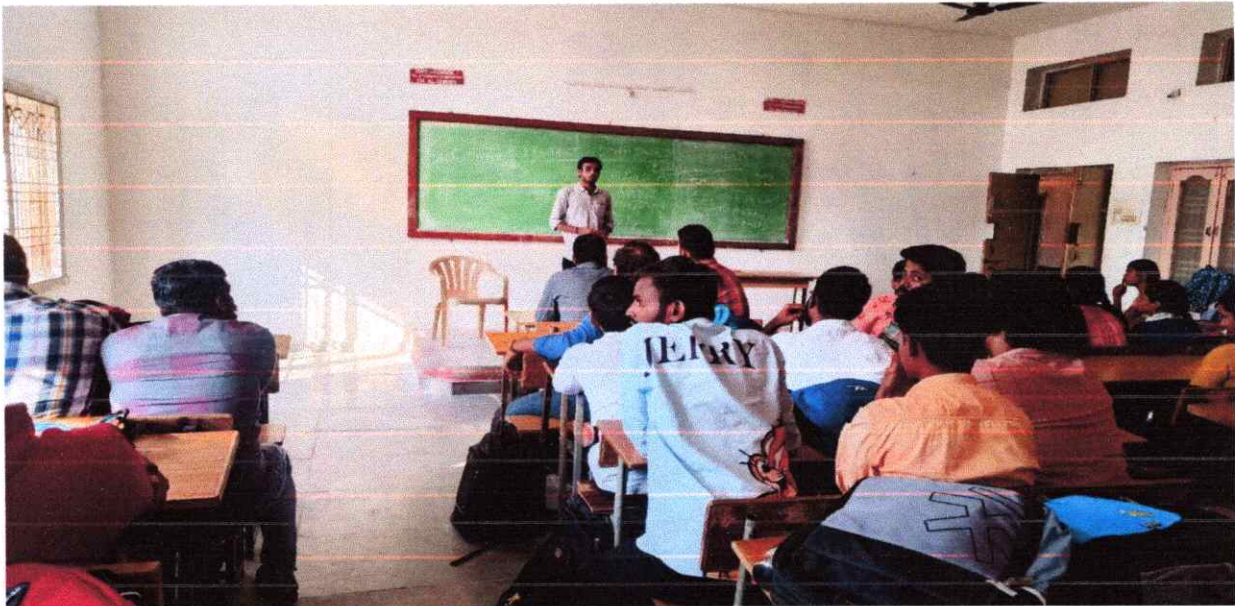
Students' Participation in Inquiry based Learning Flipped Classroom Activity
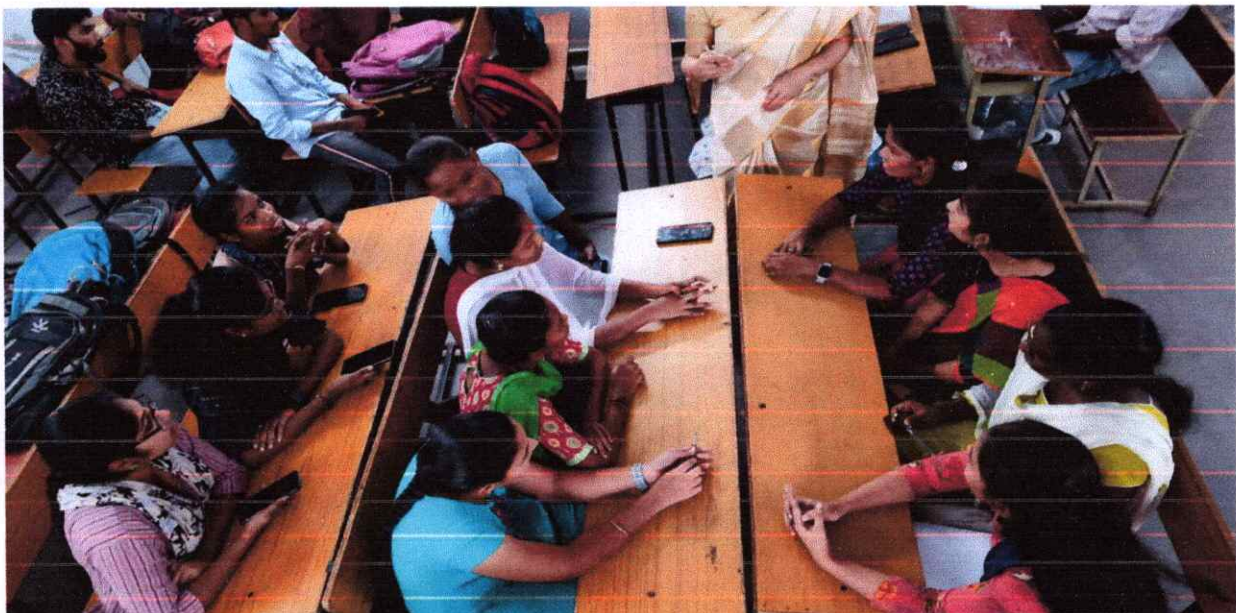
Student participation in offline quiz and flipped-classroom activity

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Students' Participation in Collaborative Learning Activities- STAD Activity

Students' participation in Dynamic Classroom Activity-Think-Pair-Share Activity

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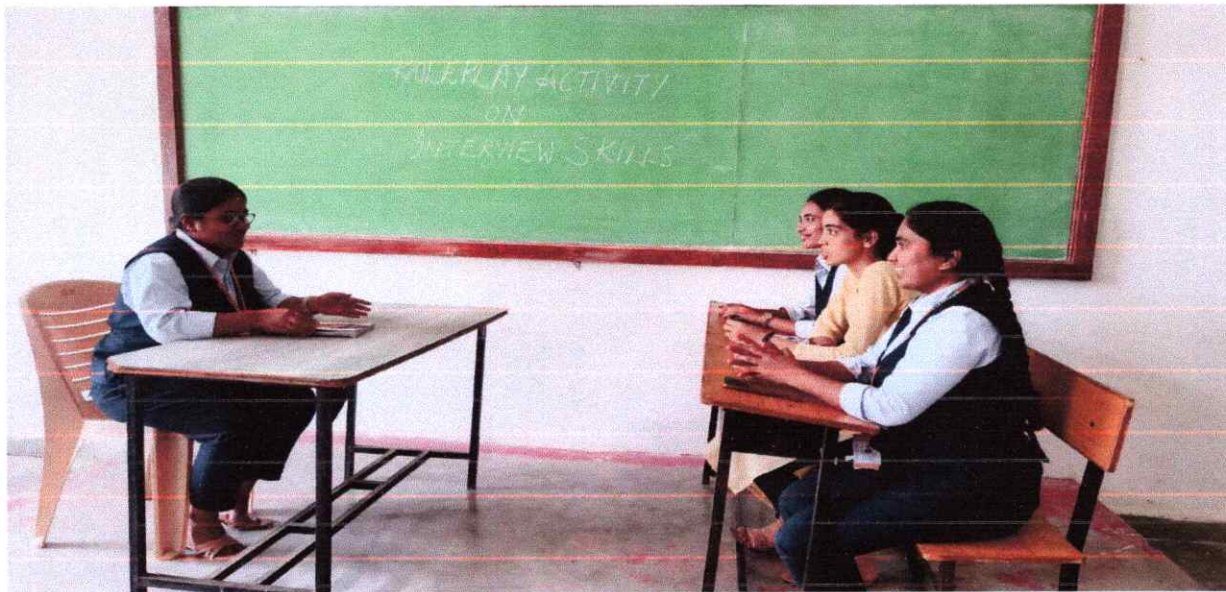Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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2.4. Role Play

Role play exercises give students the opportunity to assume the role of a person or act out a given situation. Role plays engage students in real-life situations or scenarios that can be "stressful, unfamiliar, complex, or controversial" which requires them to examine personal feelings toward others and their circumstances. Role plays can be effectively used in the classroom to provide real world scenarios to help students learn.

Role Play activity on interview skills by CSE students

Role plays activity on Formal and Informal by ECE students

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2.5. Brainstorming sessions

Brainstorming is a group problem-solving method that involves the spontaneous contribution of creative ideas and solutions. This technique requires intensive, freewheeling discussion in which every member of the group is encouraged to think aloud and suggest as many ideas as possible based on their diverse knowledge. Brainstorming will offer better solutions to a community issue or proposal because a wider range of options has been canvassed.

Think share Activity by the students

Brainstorming session on Employability Skills

Brainstorming session on Personal life Goals

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2.6. Guest Lectures:

Guest Lecture is a concept that helps the students to enhance their knowledge. Many students love the concept of guest lecturers as it is an interesting way of learning and interacting with new people at the same time. Such events and lectures help in enhancing the communication skills and many other skills of the students.

Guest Lecture was conducted for JAVA Programming – II/II CSE students by Dr. A. Nagasri Asso.Professor – CSE Dept, Annamacharya Institute of Engineering and Technology.

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Guest Lecture was conducted for Data mining – IV/I CSE students by Dr.A.Subrahmaniam , Professor – CSE Dept., Annamacharya Institute of Engineering and Technology

Guest Lecture was conducted for "Signals and System" – II/I ECE students by Dr. K. Ashok Kumar, Professor – ECE, Dept., Annamacharya Institute of Engineering and Technology

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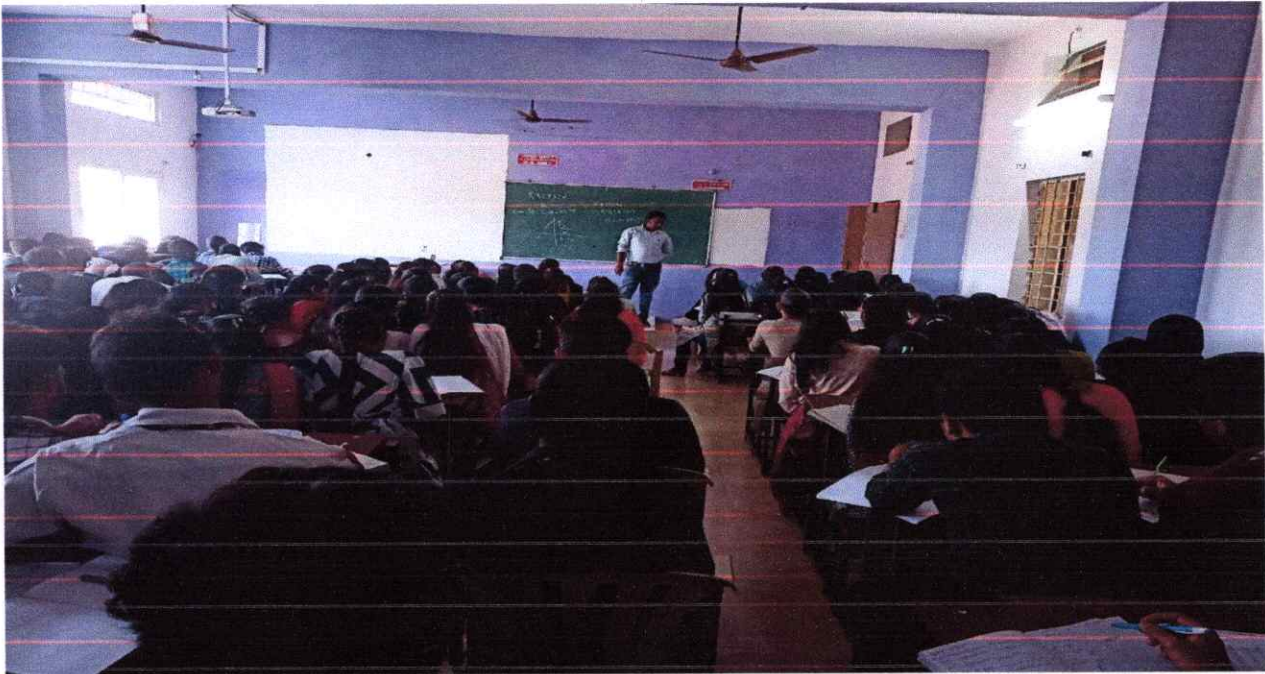Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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Guest Lecture was conducted for "Database Management System"–II/II CSE students by Dr.U.Veerendra, Professor–CSE, Dept., Brilliant Institute of Engineering and Technology

Guest Lecture was conducted for "Python Programming" – II/I AI&ML students by Dr.K.Venkata Ramana, Professor –CSE, Dept., Brilliant Institute of Engineering and Technology

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Guest Lecture was conducted for "Power Systems"– III/I EEE students by Dr. K. Srinivasan, Professor – EEE, Dept., Brilliant Institute of Engineering and Technology

Guest Lecture was conducted for "Organizational Behavior" – II/I MBA students by Dr. Y.Yelamanchali Azith. Assoc. Professor – MBA, Dept., Brilliant Institute of Engineering and Technology

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SUBJECT: DATA MINING

DATE:21/03/2023

The following Students have attended the GUEST LECTURE

IV CSE-A&B

S.NO	ROLL NUMBER	STUDENT NAME	ATTENDANCE	
			FN	AN
1	19Q61A0501	AERUKALA SHIVA KUMAR	P	P
2	19Q61A0502	AILAGONI MAINA	P	P
3	19Q61A0503	AITIPAMULA VINAY KUMAR	P	A
4	19Q61A0504	ALLADI RANJITH	P	P
5	19Q61A0505	ALUGULA VENKAT REDDY	A	A
6	19Q61A0506	AMBESH YADAV	P	P
7	19Q61A0507	ANANTHA RADHIKA	P	P
8	19Q61A0508	ANNEPU SUPRAJA	P	P
9	19Q61A0509	BADDAM UMESH REDDY	P	P
10	19Q61A0510	BADREENATH GUDIPUDI	A	A
11	19Q61A0511	BALUGURI PRASHANTH RAO	P	P
12	19Q61A0512	BANNE MAMATHA	P	P
13	19Q61A0513	BATHULA SHYAMKUMAR	P	A
14	19Q61A0514	BHAGAVATULA SASANK	P	P
15	19Q61A0515	BODA MANISHA	P	P
16	19Q61A0516	BODAKUNTI AJAY KUMAR	P	P
17	19Q61A0517	BOKKA ARSHITH REDDY	P	P
18	19Q61A0518	BOLLAVENI RAKESH	P	P
19	19Q61A0519	CHERUKURI RAKESH	A	A
20	19Q61A0520	G SATISH KUMAR REDDY	P	P
21	19Q61A0521	GOBBURI NANDINI	P	A
22	19Q61A0524	GUDEPU SOWJANYA	P	P
23	19Q61A0525	GUNTAKA TEJA VENKAT REDDY	P	P
24	19Q61A0526	GURRALA GOWTHAM SAI	A	A
25	19Q61A0527	JAKKALA MANISHA	P	P
26	19Q61A0528	JAKKULA SRINATH	P	P
27	19Q61A0529	JANAGAMA SAI KUMAR GOUD	P	P
28	19Q61A0530	JUVVANTHULA HARSHA	P	P
29	19Q61A0531	KAGITHAPU ADITHYA	P	P
30	19Q61A0532	KAIRAMKONDA PAVAN KUMAR	P	P
31	19Q61A0533	S MANOJ REDDY	A	A
32	19Q61A0541	MOHAMMED SAMEER AHMED	P	P
33	19Q61A0542	MUDIREDDY NITEESH REDDY	P	P
34	19Q61A0543	ABHINAV KUMAR SINGH	P	P

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SUBJECT: DATA MINING

DATE:21/03/2023

The following Students have attended the GUEST LECTURE

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35	19Q61A0545	ANISETTY GANESH	P	P
36	19Q61A0546	ARYAN MUNI	P	P
37	19Q61A0547	BALASANI PRANEETHSAI	P	A
38	19Q61A0548	BUDDE CHANDU	P	P
39	19Q61A0549	BUSI VASUDEV YADAV	P	P
40	19Q61A0550	CHINTANIPPU VAMSHI	P	P
41	19Q61A0551	DANDU RAHULSAI KUMAR REDDY	P	P
42	19Q61A0552	DARIPALLY SRI RAM	P	P
43	19Q61A0553	DEVARAKONDA VINAY	P	P
44	19Q61A0554	DONDA THULASI	P	P
45	19Q61A0555	G GURU CHARAN	P	P
46	19Q61A0556	GADIGA GAYATHRI NAND	P	P
47	19Q61A0558	GUNDETI PAVAN KUMAR	P	P
48	19Q61A0559	KATTA ASRITH REDDY	A	A
49	19Q61A0560	KAYYALA AKSHAY YADAV	P	P
50	19Q61A0561	KAMPATI TARUN KUMAR	P	P
51	19Q61A0562	KANCHARLA AKSHITHA	P	P
52	19Q61A0568	KASUKURTHI SRI SOWMYA DEVI	P	A
53	19Q61A0570	KENCHE BALA DATTU	P	P
54	19Q61A0571	KOLI HARINA	P	P
55	19Q61A0573	KOWDAGANI SAI NEERAJ KUMAR	P	P
56	19Q61A0574	KUNAREDDY SHIVA REDDY	P	P
57	19Q61A0575	LUKKA VENKATA SUDHEER	P	P
58	19Q61A0577	M NITHYA	A	A
59	19Q61A0578	MAALIPATTU LIKITHA	P	P
60	19Q61A0580	MADDURI PRAVALIKA	P	P
61	19Q61A0581	MAGGIDI NARSAREDDY	P	P
62	19Q61A0582	MALLEPALLY MOUNIKA	A	A
63	19Q61A0583	MANDALA ANANTH REDDY	P	P
64	19Q61A0584	MANGANI JATIN	P	P
65	19Q61A0585	MARI BHAVANA	P	P
66	19Q61A0586	MARTHOTA MANOJ KUMAR	P	P
67	19Q61A0587	MATLAPUDI CHINMAYA SAI	P	P
68	19Q61A0588	MEESALA NIKHIL REDDY	P	P
69	19Q61A0589	MERUGU SINDHU	P	P
70	19Q61A0590	MOHAMMED AYAZUDDIN	P	A
71	19Q61A0591	MOHAMMED SOHEL	P	P

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SUBJECT: DATA MINING

DATE:21/03/2023

The following Students have attended the GUEST LECTURE

IV CSE-A&B

72	19Q61A0597	SIDDIPETA JENNY JAMES	P	P
73	19Q61A0598	THATI DEEPIKAA	P	P
74	19Q61A0599	THATI DIKSHITA	P	P
75	19Q61A05A0	VALLEM SRIVANI	A	A
76	19Q61A05A1	VEERAVALLI SAI PAVAN	P	P
77	19Q61A05A2	YERRAMSETTI SAI	P	P
78	19Q61A05A4	KOTHA MANJUBHARGAVI	P	P
79	19Q61A05A5	KUNUGUNTLA SRI HARSHA	P	P
80	19Q61A05A6	MANOOR VIJAY KARTHIK	P	P
81	19Q61A05A7	MARINELA NAVYA	P	P
82	19Q61A05B0	PILLISRI SAI RASHIMITHA	P	P
83	19Q61A05B1	POLASA LIKITHHA	P	P
84	19Q61A05B2	PORLA PRAVEEN KUMAR	P	P
85	19Q61A05B3	PREETHHI SINGH	P	P
86	19Q61A05B4	RANGA RAJASHEKHAR	A	P
87	19Q61A05B5	RUDRAVELLY NAGASANTHOSHITHA	P	P
88	19Q61A05B6	SALLA SAIKIRAN REDDY	P	P
89	19Q61A05B7	SAMBANGI SAI SRAVANI	P	P
90	19Q61A05C2	NEHA GUPTA	P	P
91	19Q61A05C3	PASHAM SWETHA	P	P
92	19Q61A05C4	PATHURI NIKHITH REDDY	P	A
93	19Q61A05C5	PEDDABANDYALA YADI REDDY	P	P
94	19Q61A05C6	PILLALA HEMANTH	P	P
95	19Q61A05C7	PULIGA VAMSI	P	P
96	19Q61A05C8	RAPELLI NIKHITHA	P	P
97	19Q61A05C9	KALAL AVINASH GOUD	P	P
98	19Q61A05D1	SEELA UDAY KUMAR	P	P
99	19Q61A05D2	SESHAGANI SATHWIK	P	P
100	19Q61A05D4	SHASHANK REDDY	P	P
101	19Q61A05D5	SRIPATHI ABHIRAM REDDY	P	P
102	19Q61A05D6	THAKUR YASHRAJ SINGH	A	R
103	19Q61A05D7	THANDU MAHENDER	P	P
104	19Q61A05D8	THEDLA PRAVALIKA	P	A
105	19Q61A05D9	THUMMA SAINIKHIL	P	P

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2.7. Project Exhibitions:

The main purpose of these exhibition is to educate and engage students and individuals by showcasing and explaining concepts, discoveries, innovations, and experiments. They aim to enhance people's understanding of the world and the scientific method while sparking curiosity and promoting science literacy

Project Expo on Mission Bhagiratha in Mechanical Engineering students

Project Expo of RFID Technology in Electrical Engineering students

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Project Expo on Heartbeat Sensor in Electronics Engineering students

Project Expo on Grass Cutting Machine in Mechanical Engineering students

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Project Expo on Criminal Navigation System Using Email Tracking in CSE students

Crime Analysis mapping intrusion using Data mining in CSE students

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2.8. Workshops

A workshop is an interactive meeting in which a group of people goes through a series of activities to achieve to solve a problem or work on a project. Workshops are often led by a facilitator and can range from a couple of hours to multiple days. This is our go-to definition of a workshop. The expected outcome is increased knowledge, competence, or confidence in a particular area or set of techniques.

Workshop on Recent trends in Machine Learning and Big data
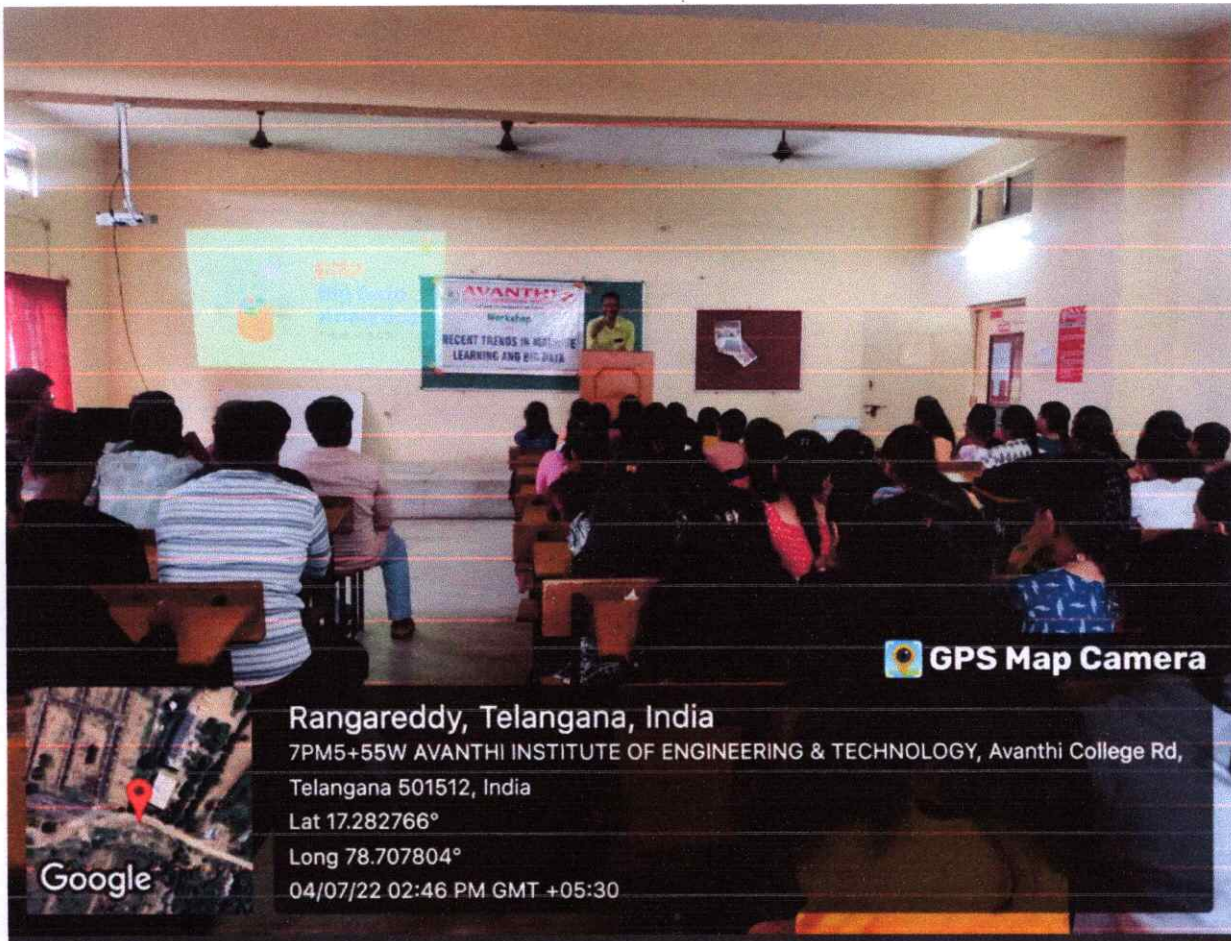
Dr. P. Srinivas, Professor, Department of CSE, Bharath Institute of Engineering & Technology

Five day's Workshop on Recent trends in Machine Learning and Big data for CSE Students

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Workshop on " Intellectual property Rights"

Dr. Sapana Singh, Associate Professor University of HYD Department of MBA

Five day's Workshop on Intellectual Property Rights for all Engineering students

Prof Nageswara Singh, OU workshop on Professionalism & Ethics

Five day's Workshop on Professionalism & Ethics for all faculty members and students.

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2.9. Mock interview

A mock interview is an interview which you practice before the actual interview. It can be practice weeks or days before with your friends, or mentor. It provides the students an opportunity to practice, receive feedback and improve their skills. A mock interview also helps you develop interview strategies, enhance your communication skills, answer challenging questions, and ease the nerves that many experiences before an actual job interview.

Mock Interview on self Introduction for all final year students
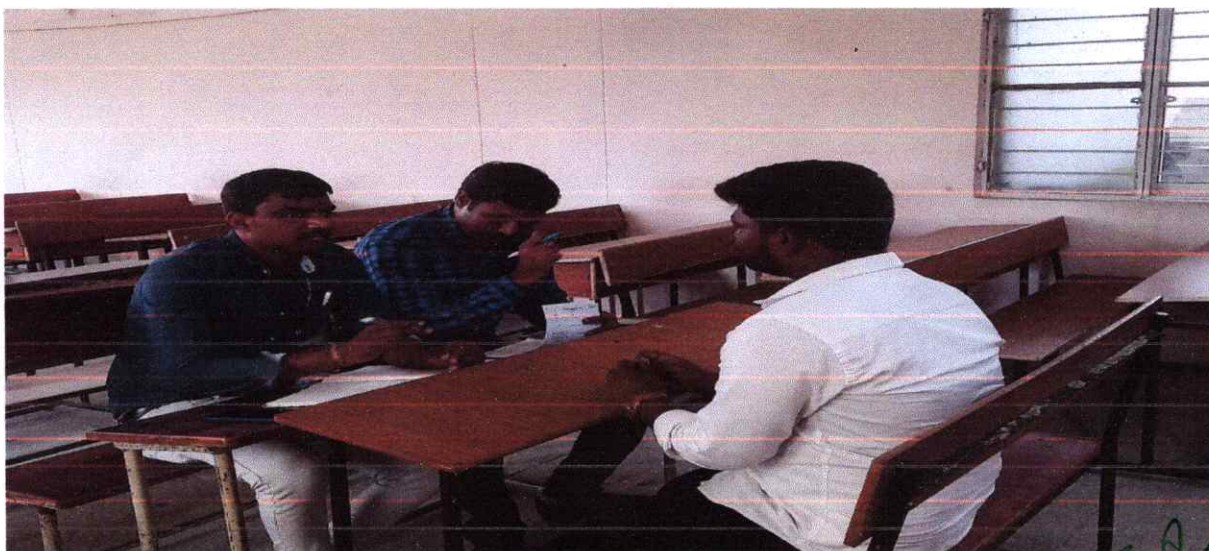
Mock Interview on java Technical Knowledge for CSE and ECE students

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Mock Interview on Python Technical Knowledge for all CSE students
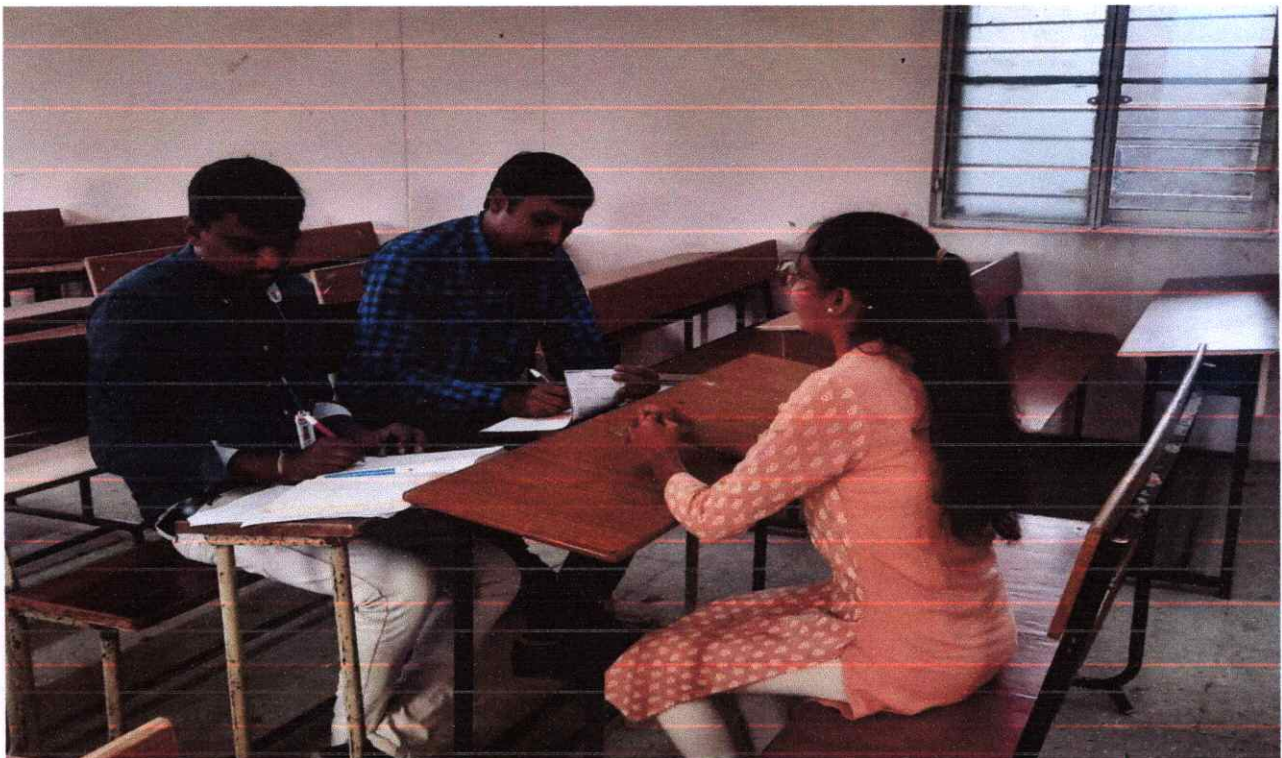
Mock Interview on self Introduction for Engineering students

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2.10. Group discussion

The main purpose of a group discussion is to measure group communication skills. Group communication skills deal with how a person in a group is able to communicate with other persons and influence his/her idea on others. Group discussions promote a deeper understanding of a topic and increase long-term retention. Group discussions can also help increase participants attention and help maintain their focus by involving them in the learning process. Group discussion can also provide feedback to instructors on participant comprehension.

5G and its Impact on the Indian and Global Economy for CSE final year students

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GD Topic on Crypto currencies for ECE final year students

GD topic on Innovation vs Invention for MBA Students

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2.11. Case Study

Case studies provide students with scenarios in which they can begin to think about their understanding and solutions to problems found in real-world situations. When carefully planned, case studies will challenge students' critical thinking and problem solving skills in a safe and open learning environment.

Case Study on Training and Development by CSE students

Case Study on empowering communication skills by ECE students

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3. Problem solving methodologies

Faculties are conducting subjects of highly analytical nature, with the objective to increase problem solving capabilities, analytical thinking and logical ability. Faculties are support to the students to attempt and solve problems individually and independently for the tutorial session, a class is divided into two groups and faculty members are assigned to each group separately. Giving assignments and quizzes at the end of instruction of each unit All academic activities are aimed at elevating the students' knowledge, skills and build confidence in them.

3.1 Tutorials based on problems

3.2 Assignments

3.1 Tutorials

Tutorials will provide a forum for students to practice their independent analysis of the primary texts, and to review and respond to the theoretical interpretations presented during lecture.
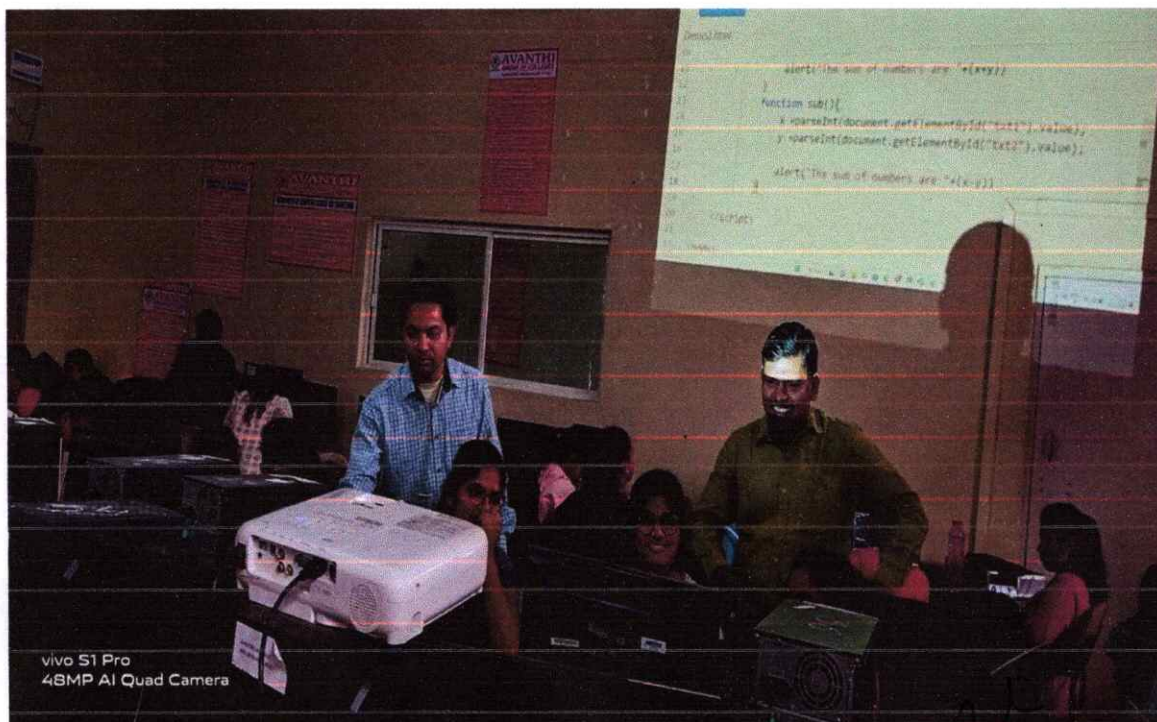
Tutorial classes on Java CSE students

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Tutorial classes on Java CSE-AIML students

Tutorial classes on Python CSE-DS students

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Sample copies of Tutorial Assignments

TUTORIAL CLASS ON MATHEMATICS

Write the following statement in symbolic form with statements.

① P: Pawan is Rich

    Q: Raghaw is happy.

a) Pawan is Rich and Raghaw is not happy.

    Ans:- $P \wedge \neg Q$.

b) Pawan is Not Rich and Raghaw is happy.

    Ans:- $\neg P \wedge Q$.

2) P: Raj is Rich

    Q: Raj is happy.

a) Raj is poor but happy.

    Ans:- $\neg P \wedge Q$.

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TUTORIAL CLASS ON MATHEMATICS

4) write the following into a statement of English

P : Triangle ABC is isosceles.
Q : Triangle ABC is Equilateral.
R : Triangle ABC is Equiangular.

a) $Q \rightarrow P$.

Ans: If triangle ABC is equilateral, then it is isosceles.

b) $\sim P \rightarrow \sim Q$

Ans:- If the triangle ABC is not isosceles then it is not equilateral.

c) $Q \rightleftharpoons R$.

Ans: The Triangle ABC is equilateral if and only if it is equiangular.

d) $P \cap \sim Q$.

Ans:- Triangle ABC is isosceles and Triangle ABC is Not Equilateral.

e) $R \rightarrow P$.

Ans:- if Triangle ABC is Equiangular, then It is isosceles.

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TUTORIAL CLASS ON MATHEMATICS

5) If P, Q, R are three statements with truth values 'true', 'true' and 'false' respectively. Find the truth values of the following

Given $P : True$
$Q : True$
$R : False$

a) $P \vee Q$ Ans: $T \vee T \to T$

b) $P \wedge R$ Ans: $T \wedge F \to F$

c) $(P \vee Q) \wedge R$ Ans: $(T \vee T) \wedge F$
$$T \wedge F \to F.$$

d) $P \wedge (\neg R)$ Ans: $T \wedge (\neg F)$
$$T \wedge T \to T.$$

e) $(P \wedge \neg Q) \wedge (\neg R)$ Ans: $(T \wedge (\neg T)) \wedge (\neg F)$
$$(T \wedge F) \wedge T$$
$$F \wedge T \to F.$$

f) $P \to R$ Ans: $T \to F$
$$F.$$

g) $P \to Q$ Ans: $T \to T$
$$T$$

h) $R \to P$ Ans: $F \to T$
$$T.$$

i) $(R \wedge P) \to Q$ Ans: $(F \wedge T) \to T$
$$F \to T$$
$$T$$

j) $(P \wedge \neg Q) \to R$
$$Ans: (T \wedge \neg T) \to F$$
$$(T \wedge F) \to F$$
$$F \to F \Rightarrow T.$$

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k) $(P \vee Q) \leftrightarrow (P \to \neg R)$

Ans :- $(T \vee T) \leftrightarrow (T \to \neg F)$

$$T \leftrightarrow (T \to T)$$

$$T \leftrightarrow T.$$

l) $(P \leftrightarrow R) \to R$

Ans:- $(T \leftrightarrow F) \to F$

$$F \to F$$

$$T.$$

6) Construct the Truth Tables for the following

a) $\neg(\neg P \wedge \neg Q)$

P	Q	$\neg P$	$\neg Q$	$\neg P \wedge \neg Q$	$\neg(\neg P \wedge \neg Q)$
T	T	F	F	F	T
T	F	F	T	F	T
F	T	T	F	F	T
F	F	T	T	T	F

b) $(\neg P \vee Q) \wedge (\neg Q \vee P)$

P	Q	$\neg P$	$\neg Q$	$\neg P \vee Q$	$\neg Q \vee P$	$(\neg P \vee Q) \wedge (\neg Q \vee P)$
T	T	F	F	T	T	T
T	F	F	T	F	T	F
F	T	T	F	T	F	F
F	F	T	T	T	T	T

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TUTORIAL CLASS ON MATHEMATICS

c) $(P \wedge Q) \rightarrow (P \vee Q)$

P	Q	$P \wedge Q$	$P \vee Q$	$(P \wedge Q) \rightarrow (P \vee Q)$
T	T	T	T	T
T	F	F	T	T
F	T	F	T	T
F	F	F	F	T

7) Given the Truth values of P and Q as T and those of R and S as F, find the values of following.

a) $P \vee (Q \wedge R)$

P	Q	R	$Q \wedge R$	$P \vee (Q \wedge R)$
T	T	F	F	T

b) $(P \wedge (Q \wedge R)) \wedge \neg ((P \vee Q) \wedge (R \vee S))$

P	Q	R	S	$Q \wedge R$	$P \vee Q$	$R \vee S$	$P \wedge (Q \wedge R)$	$(P \wedge (Q \wedge R)) \wedge \neg (P \vee Q) \wedge (R \vee S)$
T	T	F	F	F	T	F	F	T

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3.2 Assignments

An assignment is a piece of (academic) work or task. It provides opportunity for students to learn, practice and demonstrate they have achieved the learning goals. It provides the evidence for the teacher that the students have achieved the goals.

Name :- G. Vignesh

Roll No :- 21Q65A0213

Standard :- 2nd year, 1st Sem, B. Tech

College : AVIH, Guntapally.

1. Derive the moment of Inertia of Rectangle, triangle and Circle with Respect to References and centroidal axis.

Ans:-

1. MOMENT OF INERTIA OF A RECTANGLE :-

Consider a Rectangle of length (b), width (d) is represented along two dimensional axis as shown in below fig. Let assume a small Rectangular element inside the Rectangle which is at a distance of y from x-axis and width dy as shown in fig.

Area of small Rectangular element.

$$dA = b(dy)$$

w.r.t x-axis :-

$$I_x = \int y^2 b \, dy$$

$$= b \left[\frac{y^3}{3} \right]_0^d$$

$$\boxed{I_x = \frac{bd^3}{3}}$$
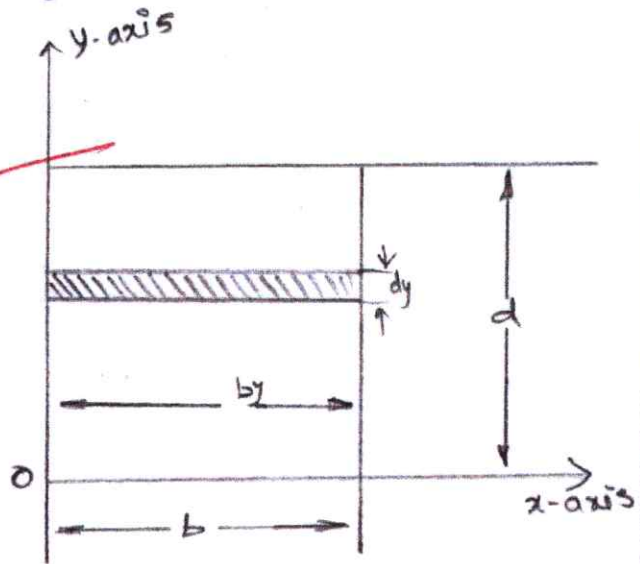
Figure

w.r.t y-axis :-

Area of small element, $dA = d(dx)$

$$I_y = \int_b \overset{2}{x} \, dA$$

$$I_y = \int_0^b x^2 \, dx$$

$$I_y = d \left[\frac{x^3}{3} \right]_0^b$$

$$\boxed{I_y = \frac{db^3}{3}}$$
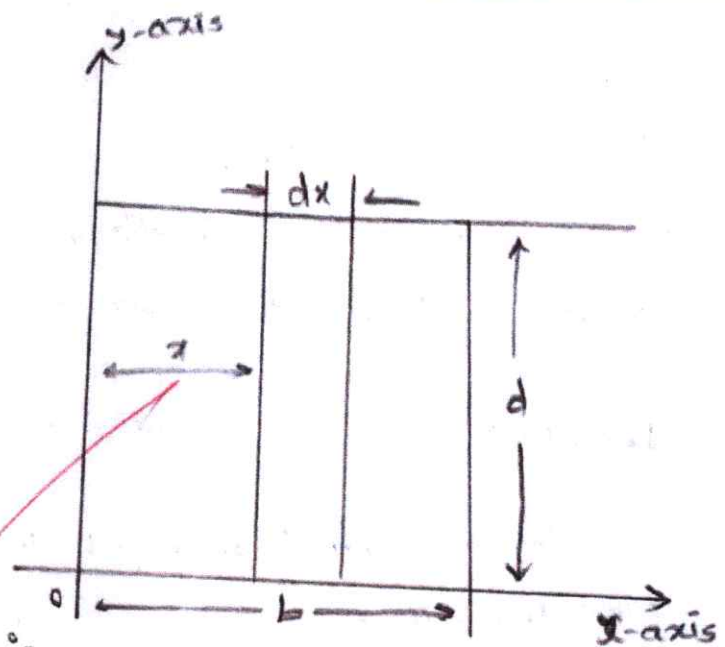
Figure

By Parallel axis Theorem :-

with Respect to x-axis

$$I_x = I_{x\bar{x}} + A y_c^2$$

$$\Rightarrow \frac{bd^3}{3} = I_{x\bar{x}} + bd \left(\frac{d}{2} \right)^2$$

$$\Rightarrow I_{x\bar{x}} = \frac{bd^3}{3} - \frac{bd^3}{4}$$

$$\boxed{I_{x\bar{x}} = \frac{bd^3}{12}}$$

Similarly w.r. to y-axis :-

$$\boxed{I_{y\bar{y}} = \frac{db^3}{12}}$$

2. Moment of a Triangle :-

Consider a triangle of base 'b' and height 'h' represented along horizontal x-axis and vertical y-axis to determine moment of inertia of a triange. Let assumed a Small Rectangular element of length 'b' and width 'dy' which is at a perpendicular distance of x, y w.r.t y and x-axis as shown in PRINCIPAL

Area of Rectang Triangle element, $dA = b_1 \, dy$

We know that $I_x = \int y^2 \, dA$

$$= \int_0^h y^2 b_1 \, dy$$

Assume two Δles are similar by Properties of Similar triangles.
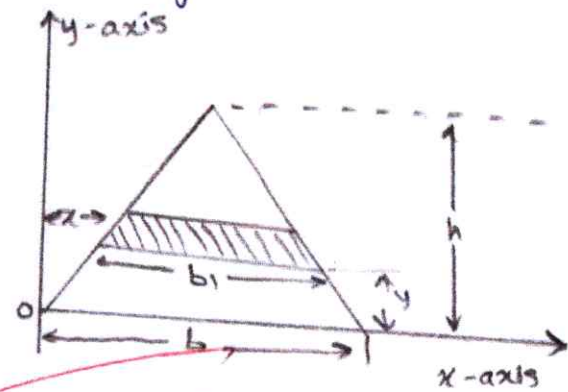
Figure

$$\Rightarrow \frac{b_1}{h-y} = \frac{b}{h}$$

$$b_1 = \frac{b}{h}(h-y)$$

$\therefore I_x = \int_0^h y^2 \frac{b}{h}(h-y) \, dy$

$$I_x = b\left[\frac{y^3}{3} - \frac{y^4}{4h}\right]_0^h$$

$$I_x = b\left[\frac{h^3}{3} - \frac{h^4}{4h}\right]$$

$$I_x = b\left[\frac{4h^3 - 3h^3}{12}\right]$$

$(h-y)$
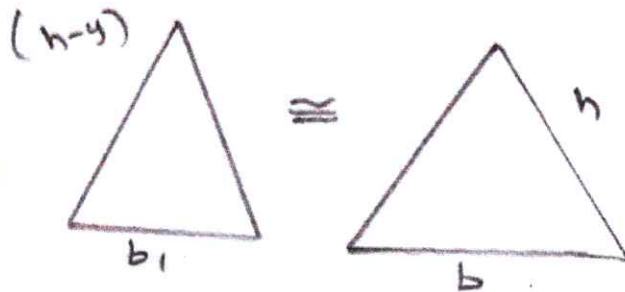
By Properties of Δles $b_1 \propto (h-y)$

$b \propto h$

$$\boxed{I_x = \frac{bh^3}{12}} \quad , \text{ Similarly } \quad \boxed{I_y = \frac{hb^3}{12}}$$

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3. Moment of Inertia of a Semi-circle :-

(i)

Consider a Semi-circle of a radius (r) Represented in a co-ordinate System as shown in below figure.

$I \, Semicircle = \frac{1}{2} \times I \, circle$

$I \, semi \, circle = \dfrac{\pi D^4/64}{2}$

$I \, semi \, circle = \dfrac{\pi D^4}{128}$

$$\boxed{I_x = \frac{\pi D^4}{128} \; (or) \; \frac{\pi R^4}{8}}$$
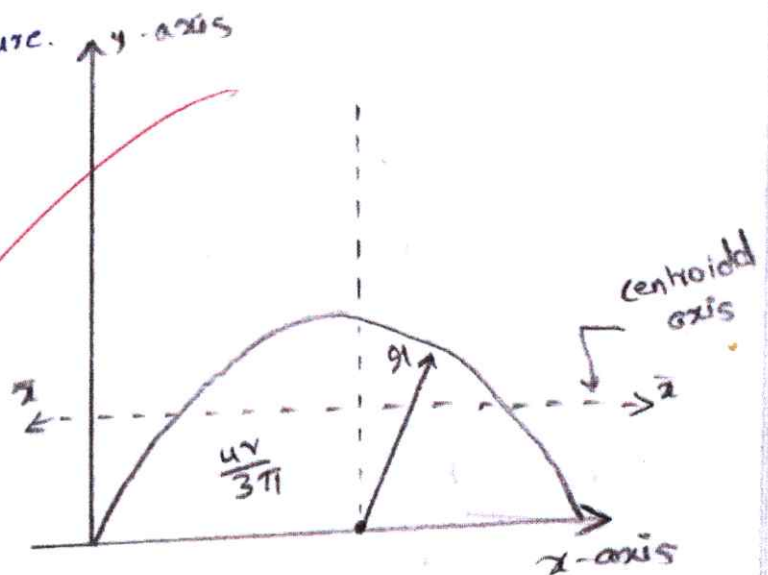
By Parallel axis Theorem :-

$\Rightarrow I_x = I_{x\bar{x}} + Ay_c^2$

$\therefore I_x = \dfrac{\pi R^4}{8} \; [M.I \; of \; semi \; circle]$

$\Rightarrow \dfrac{\pi r^4}{8} = I_{x\bar{x}} + \dfrac{\pi r^2}{2} \left[\dfrac{4r}{3\pi} \right]^2$

$\Rightarrow I_{x\bar{x}} = \dfrac{\pi r^4}{8} - \dfrac{\pi r^2}{2} \cdot \left(\dfrac{16 r^2}{9\pi^2} \right)$

$\Rightarrow I_{x\bar{x}} = r^4 \left[\dfrac{\pi}{8} - \dfrac{8}{9\pi} \right]$

$\Rightarrow \boxed{I_{x\bar{x}} = 0.11 \, r^4}$

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(ii) Moment of a Quarter circle :-

Consider a Quarter circle of radius (r) represented in a Co-ordinate system as shown in below figure

$$\text{I Quarter circle} = \frac{1}{4} \times \text{I circle}$$

$$\text{I (Q. circle)} = \frac{1}{4} \times (\text{I circle}) \, r$$

$$\text{I Quarter circle} = \frac{1}{4} \times \frac{\pi R^4}{4}$$

$$\boxed{\text{I Quarter circle} = \frac{\pi r^4}{16} \quad (\text{or}) \quad \frac{\pi d^4}{256}}$$
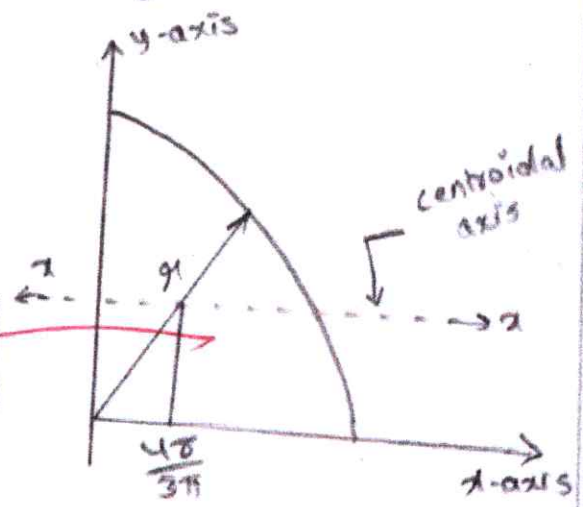
By Parallel-axis Theorem :-

$$I_x = I_{x\bar{x}} + A y_c^2$$

$$\therefore I_x = \frac{\pi r^4}{16}$$

$$\frac{\pi r^4}{16} = I_{x\bar{x}} + \frac{\pi r^2}{4} \left(\frac{4r}{3\pi}\right)^2$$

$$I_{x\bar{x}} = \frac{\pi r^4}{16} - \frac{\pi r^2}{4} \left\{ \frac{16 r^2}{9 \pi^2} \right\}$$

$$I_{x\bar{x}} = r^4 \left\{ \frac{\pi}{16} - \frac{4}{9\pi} \right\}$$

$$\boxed{I_{x\bar{x}} = 0.055 \, r^4}$$

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2. State and Prove that parallel axis theorem :-

Sol: Statement :- The moment of Inertia about any references axis is equal to the algebraic Sum of the moment of Inertia about it's centroidal axis and product of Area of the body and distance between the body and the References axis.
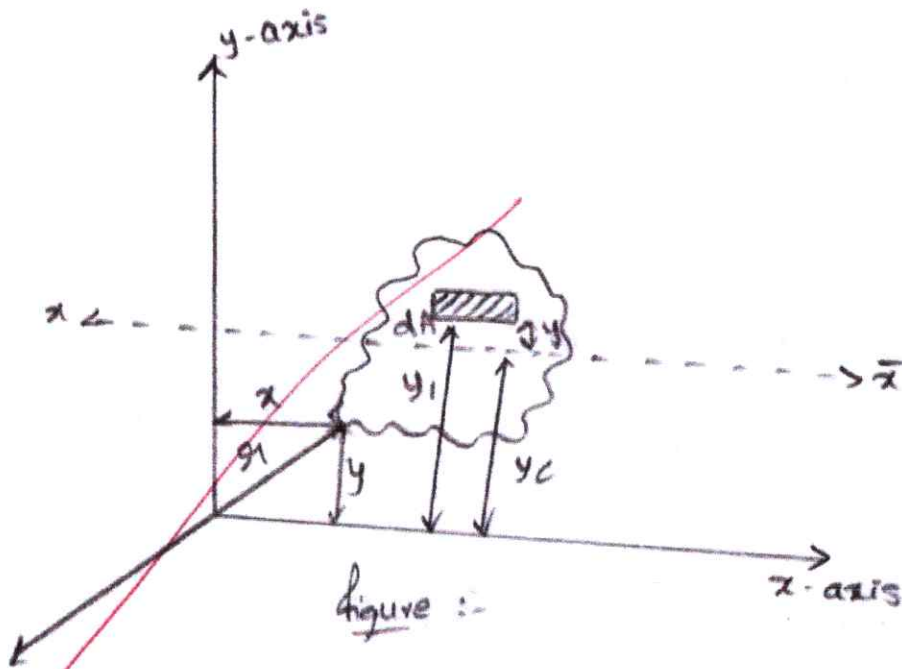
Proof :-

figure :-

w.r.to x-axis :-

$$I_x = \int y^2 dA$$

$$I_x = \int (y + y_c)^2 dA$$

$$I_x = I_{x\bar{x}} + \int y_c^2 dA + 2\int y \cdot y_c dA$$

$$\boxed{I_x = I_{x\bar{x}} + A y_c^2}$$

Similarly w.r.to y-axis

$$\boxed{I_y = I_{y\bar{y}} + A x_c^2}$$

Since the first moment of inertia about It's about Centroidal axis is zero so $\int y \cdot y_c dA$ is Zero.

$\frac{5}{5}$

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4. ICT Based Learning:

Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.
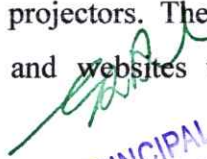
The following tools are used by the Institute-

ICT Tools:

1. Projectors- 25 projectors are available in different classrooms/labs
2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.
3. Printers- They are installed at Labs, HOD Cabins and all prominent places
4. Photocopier machines - Multifunction printers are available at all prominent places in the institute. There are four photostat machines available in campus.
5. Scanners- Multifunction printers are available at all prominent places.
6. Seminar Rooms- Three seminar halls are equipped with all digital facilities.
7. Smart Board- One smart board is installed in the campus.
8. Auditorium- It is digitally equipped with mike, projector, cameras and computer system.
9. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom)
10. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)
11. Digital Library resources (DEL NET, MYLOFT etc)

Use of ICT By Faculty-

A. PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations.

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B. Industry Connect- Seminar and Conference room are digitally equipped where guest lectures, expert talks and various competitions are regularly organized for students.

C. Online quiz- Faculties prepare online quiz for students after the completion of each unit with the help of GOOGLE FORMS.

D. Video Conferencing- Students are counseled with the help of Zoom / Google meet applications.

E. Video lecture- Recording of video lectures is made available to students for long term learning and future referencing.

F. Online competitions- Various technical events and management events such as Poster making, Ad-mad show, Project presentations, Business quiz, Debates, paper presentations etc. are being organized with the help of various Information Communication Tools.

Conducting online quiz Competition to the Students by using ICT Tool Till Google Forms

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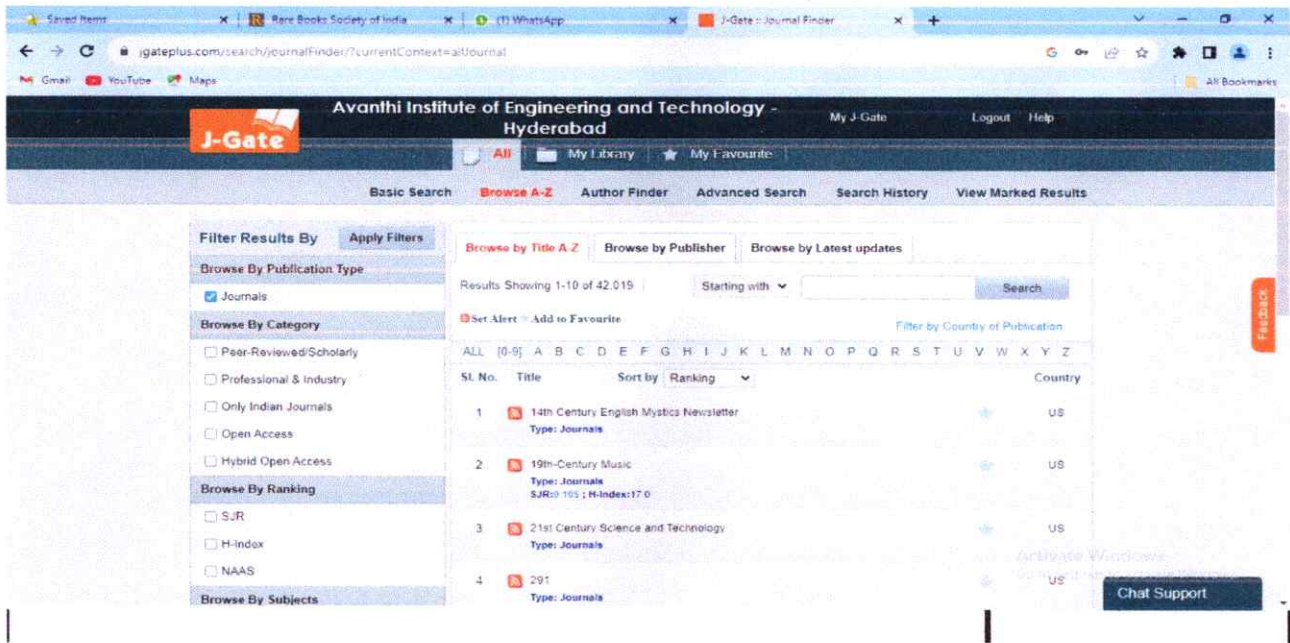Avanthi Institute of Engineering and Technology

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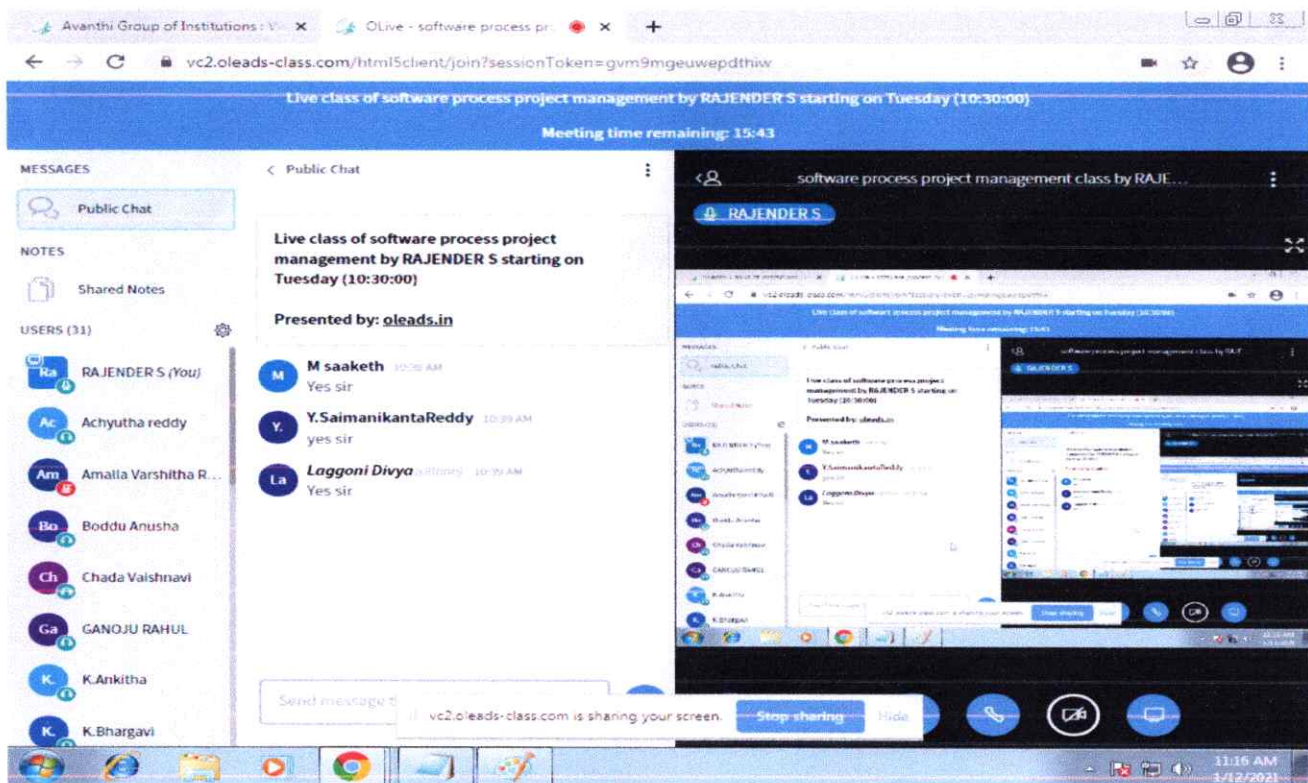
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Conducting workshop to the Students by using ICT Tool Computers

Conducting seminar to the Students by using ICT Tool Projector

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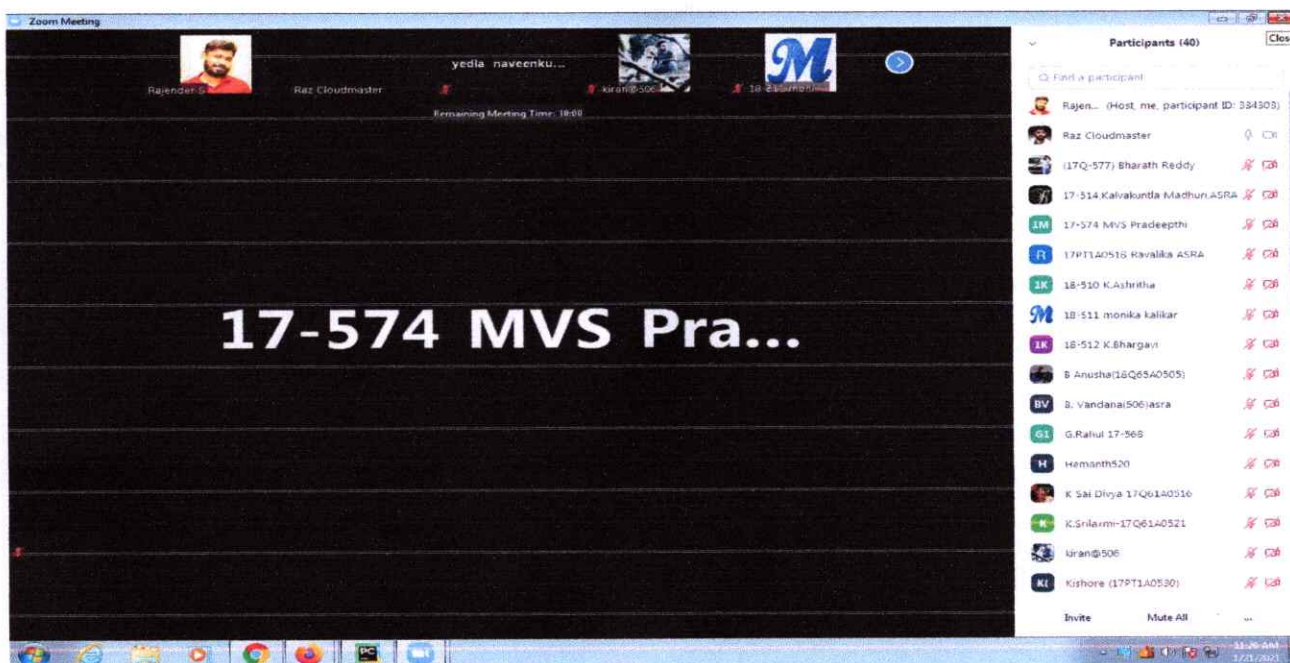Avanthi Institute of Engineering and Technology

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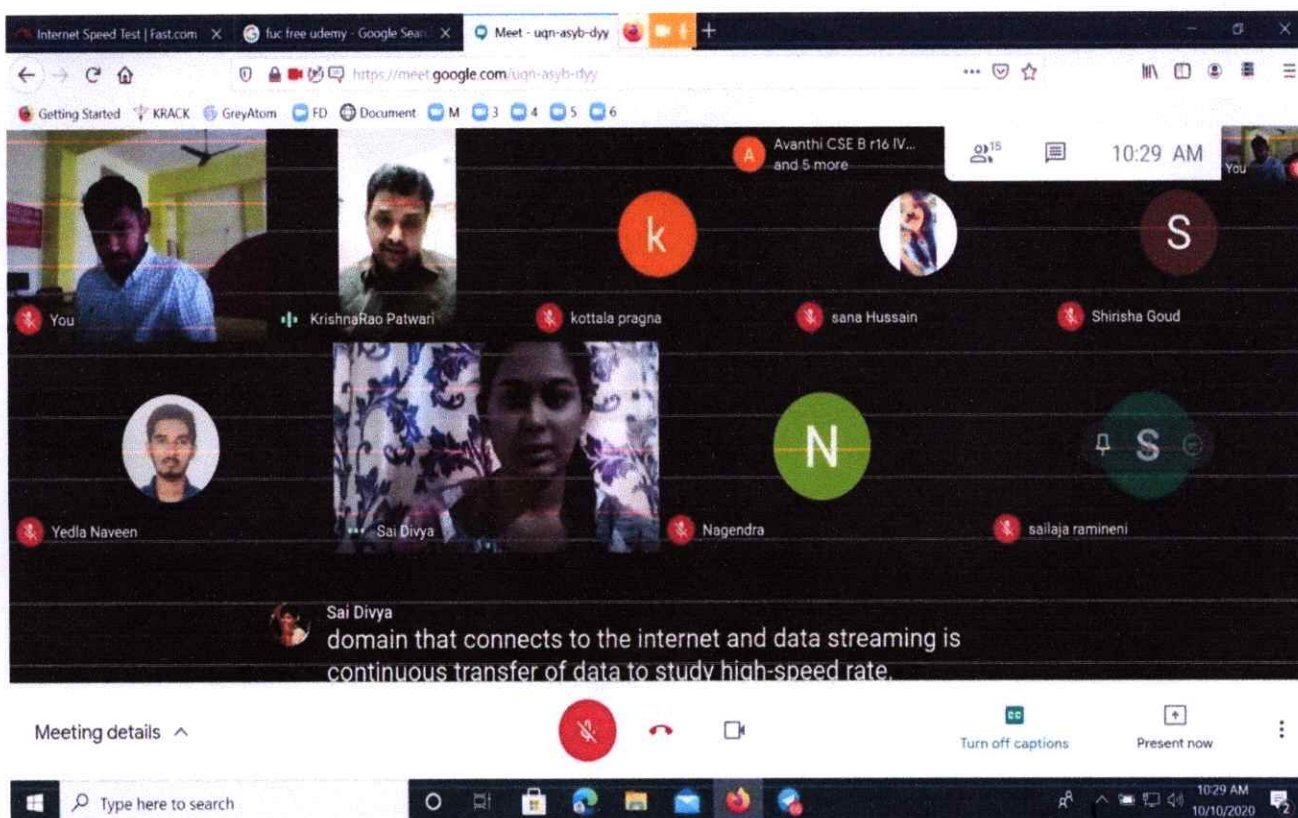(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

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Student Development Program using ICT Tool iGATE website

Program on software process project management using ICT Tool oleads-class.com Website

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**Project work explanation on the allotted guide using ICT Tool ZOOM meeting**

Students are Educated Using ICT tool Google meet during pandemic situation

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Instructions through ICT Classrooms and Labs
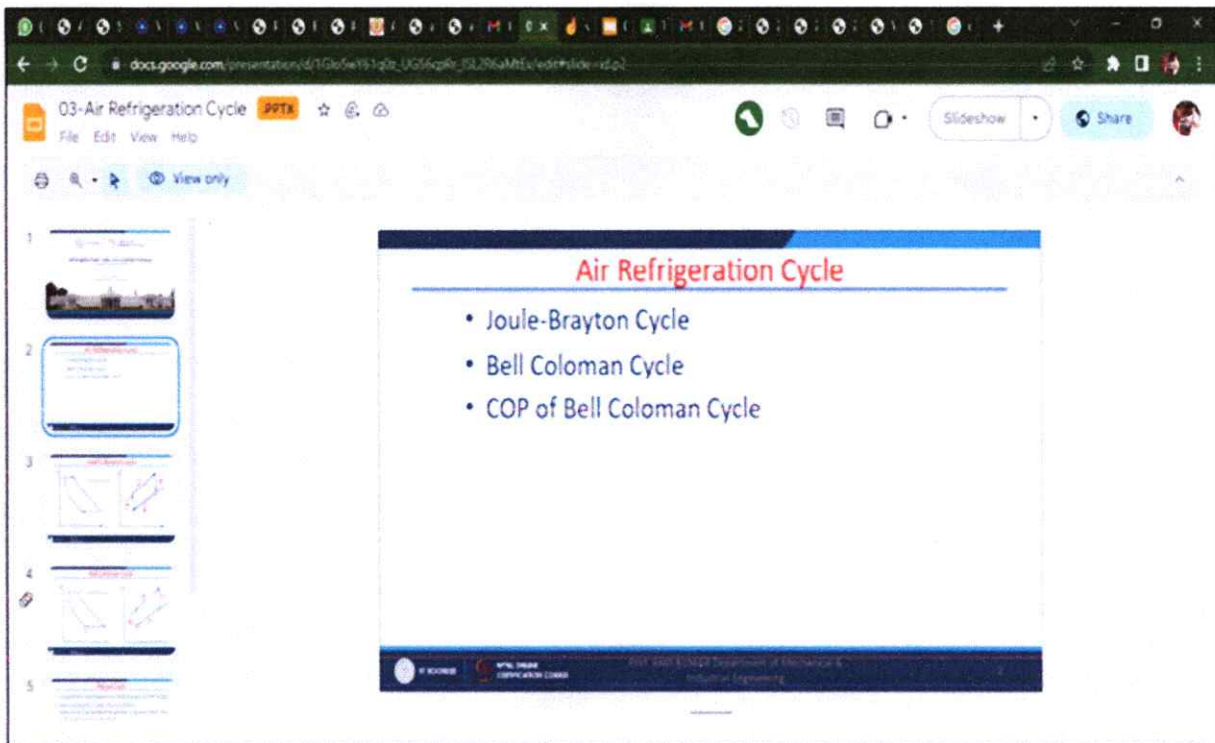
Faculty using ICT tool Google slides for teaching-learning

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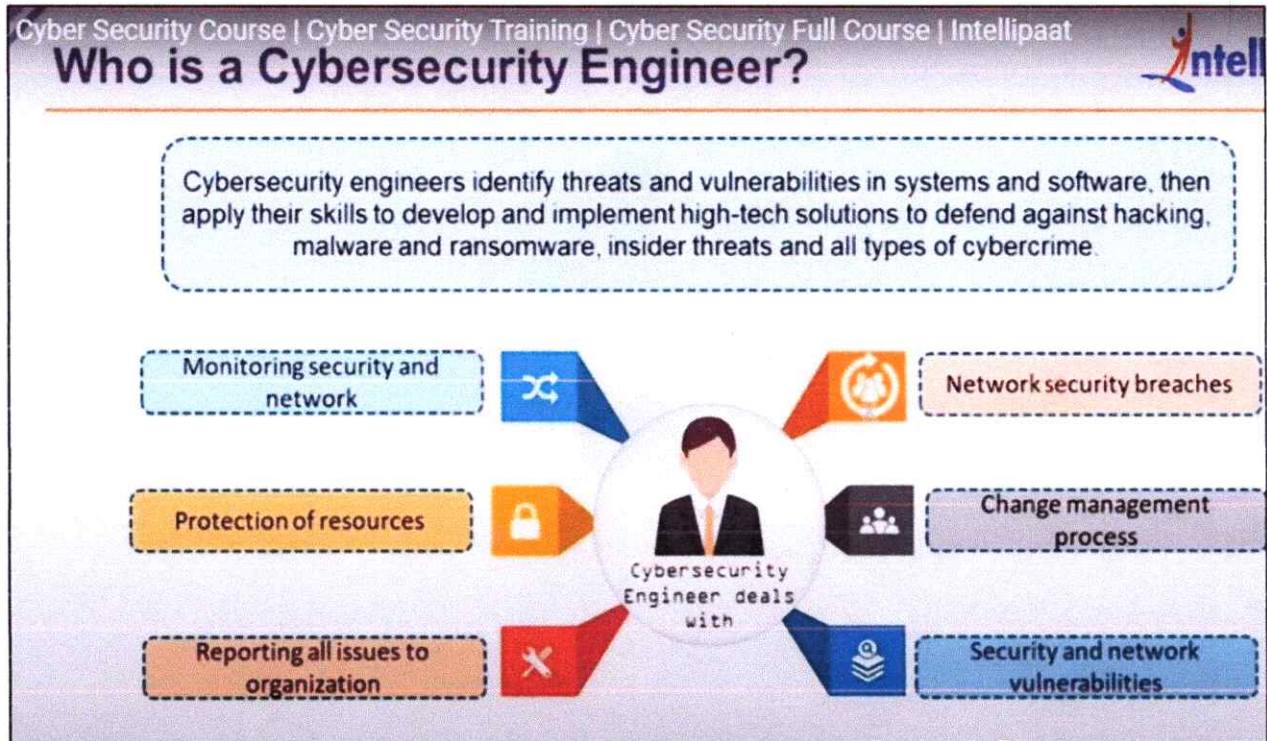Gunthapally (V), Abdullapurmet (M)., R.R Dist.

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