



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.G.V, Vizianagaram)

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.


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Teachers use ICT enabled tools for effective teaching-learning process.

INDEX

| SL.NO. | ACTIVITIES | Page No |
|--------|---|---------|
| 1 | ICT Enabled Classrooms and Laboratories | 3 - 13 |
| 2 | Brief about ICT tools/approaches | 14 - 20 |
| 3 | Flip Classroom Data | 20 - 25 |
| 4 | ERP System – DHI Software | 26 - 27 |
| 5 | Library e-resources, Journals, Books | 28 - 30 |
| 6 | Students Login Portal | 31 |




Principal
PRINCIPAL
Avanathi Institute of Engg. & Tech
Cherukupally (V), Bhogapuram (M)
Vizianagaram (Dist.)-531162



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Response:

All the course and lab course handling faculties are using ICT mode content delivery in the way of video presentation, NPTEL lecture presentation online classes.

ICT tools were used for the effective content delivery in the class room for better understanding and reinforcement of the concepts and problem-solving is adopted by all the faculty of the institution.

Traditional teaching-learning methods and ICT tools both usages is highly interested in providing innovative methods for enriching the learning experience.

The institution has provided the high speed internet access and high configuration computers and technical resources for the effective utilization of ICT among the students and the faculty.

Teaching/Learning methodologies include the use of ICT tools for illustrations and special lectures, case studies, project-based-methods, experimental methods, flipped class room sessions, v-lab and NPTEL videos.

The conventional lecture method facilitates the teacher to interpret, explain and revise the content of a topic, only for better understanding of the subject by the learners. At the end of instruction of each unit, the students are given specific assignment and seminar handled by the students which enriches their learning.

To enhance the effectiveness, acquired knowledge by the way of answering a few questions or a brief peer group discussion or a think-pair-share activity or any other relevant interactive session. Thus, the blended mode of learning which combines direct mentor-taught interaction with the online learning is implemented.

ICT components are embedded in the course contents of all relevant engineering disciplines which include free / commercial software used for computation / simulation.

ICT for course delivery includes power point presentation, video conferencing and also educational websites. Course handling faculties are conducting to the students' learning process through online quizzes, submission of online assignments etc. It helps our students in blended learning, flipped classroom and other e-learning projects even for the COVID pandemic situation.

ICT enabled Teaching-Learning Process is supported with Regular Practical Sessions, access to Digital Library, Online Courses (MOOCS, NPTEL etc.), and online journals from DELNET, Online tests, Use of LCD projectors for seminars and workshops, productive use of educational videos, and accessibility of non-print material for students using college website.



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Communication skills training facility is enriched with ICT tools to make the students acquire proficiency in listening, speaking, reading and writing skills.

Discussion/demonstration and ICT based ways of learning, enable students gain the skills in critical Thinking, communication, and group dynamics and reflect appropriate integration of direct and online interaction of the participating members.



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ICT Enabled Classrooms and Laboratories

The institute has state-of-art infrastructure like good ambience classrooms and fully equipped laboratories to provide adequate facilities for teaching-learning. The classrooms are well ventilated, spacious and equipped with LCD projectors and black/white boards. The laboratories are fully equipped and well established with latest tools and facilities to carry out student practical's, projects and research activities.

| Si.No | Room number or Name of class rooms/Seminar Hall with LCD / Wi-Fi/ LAN facilities with room numbers | Type of ICT facility |
|-------|--|--|
| 1 | Seminar Hall 1 | LCD Projector, Wi-Fi & Audio system |
| 2 | Seminar Hall 2 | LCD Projector, Wi-Fi & audio system |
| 3 | Conference Hall | LCD Projector and Wi-Fi & audio system |
| 4 | ECE-E-Class Room | LCD Projector and Wi-Fi & audio system |
| 5 | EEE -E-Class Room | LCD Projector and Wi-Fi & audio system |
| 6 | MECH -E-Class Room | LCD Projector and Wi-Fi & audio system |
| 7 | CSE E-Class Room | LCD Projector and Wi-Fi & audio system |
| 8 | Interactive practical Hall -1 | LCD Projector and Wi-Fi |
| 9 | Interactive practical Hall -2 | LCD Projector and Wi-Fi |
| 10 | Interactive practical Hall -3 | LCD Projector and Wi-Fi |
| 11 | Interactive practical Hall -4 | LCD Projector and Wi-Fi |
| 12 | Interactive practical Hall -5 | LCD Projector and Wi-Fi |
| 13 | CSE- Class Room 104 | LCD Projector and Wi-Fi |
| 14 | CSE- Class Room 105 | LCD Projector and Wi-Fi |
| 15 | CSE- Class Room 106 | LCD Projector and Wi-Fi |
| 16 | CSE- Class Room 108 | LCD Projector and Wi-Fi |
| 17 | CSE- Class Room 109 | LCD Projector and Wi-Fi |
| 18 | CSE- Class Room 110 | LCD projector and Wi-Fi |
| 19 | ECE- Class Room 207 | LCD projector and Wi-Fi |
| 20 | ECE- Class Room 210 | LCD projector and Wi-Fi |
| 21 | ECE Class Room 211 | LCD projector and Wi-Fi |
| 22 | EEE- Class Room 104 | LCD projector and Wi-Fi |
| 23 | EEE- Class Room 105 | LCD projector and Wi-Fi |
| 24 | MECH- Class Room 107 | LCD projector and Wi-Fi |
| 25 | MECH- Class Room 202 | LCD projector and Wi-Fi |
| 26 | B&SH- Class Room 102 | LCD projector and Wi-Fi |
| 27 | B&SH - Class Room 104 | LCD projector and Wi-Fi |
| 28 | B&SH- Class Room 108 | LCD projector and Wi-Fi |
| 29 | B&SH- Class Room 111 | LCD projector and Wi-Fi |
| 30 | B&SH-ClassRoom 203 | LCD projector and Wi-Fi |
| 31 | B&SH-ClassRoom 205 | LCD projector and Wi-Fi |



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Class Rooms and Laboratories using ICT Tools



E-Class Room-MECH



C

CNC Machine Lab-MECH



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Engineering Graphics & Simulation Laboratory-MECH



Computer Aided Modeling and Analysis Laboratory-MECH



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CAE/CAM Laboratory-MECH



E CLASS ROOM-1-ECE



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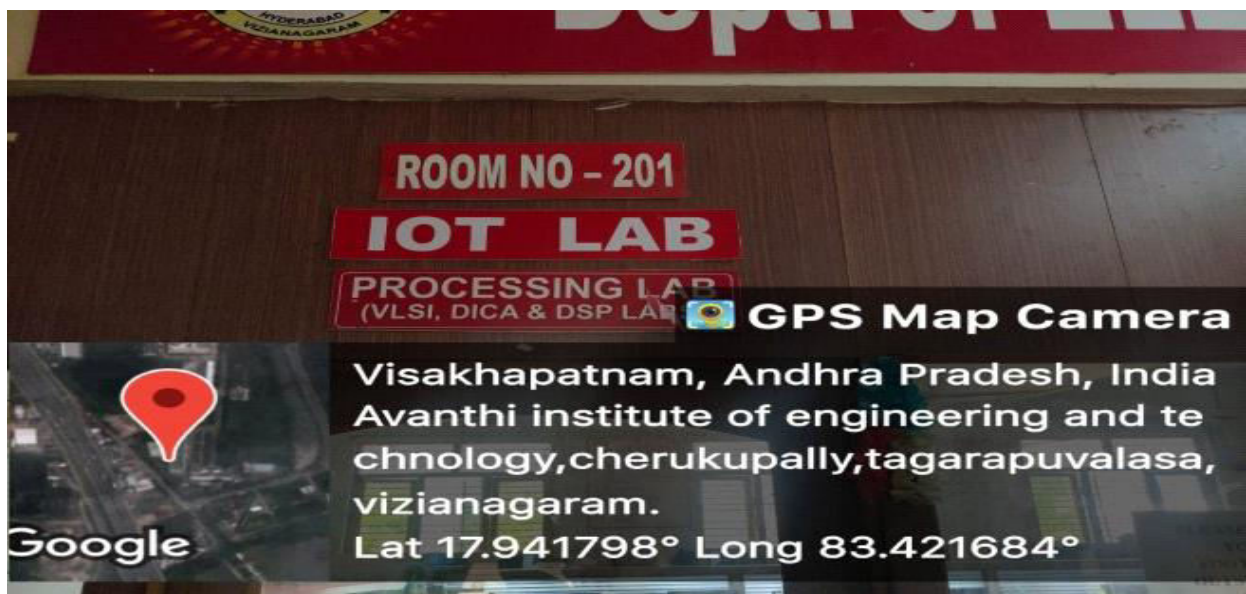
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E-CLASS ROOM-2-ECE



IOT Laboratory-ECE



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IOT Laboratory-ECE



COMPUTER LAB-1-CSE



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COMPUTER LAB-1-CSE



COMPUTER LAB-1-CSE



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Central Computing Lab-CSE



Digital Lab-CSE



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WCRC+PCJ, Visakhapatnam,
Andhra Pradesh 531162, India
Lat 17.942074° Long 83.421806°

-E-CLASS ROOM-CSE



Electrical Simulation Lab-EEE



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Electrical Simulation Lab-EEE



English Communication Lab



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English Communication Lab



Avanathi Central Library-Knowledge Resource centre



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ICT Tools/ Approaches

ICT tools contribute to high quality lessons since they have potential to increase students' learning capabilities through seamless connectivity to many information sources as well as support for active in-class and out-class learning environments. In the time of pandemic, AVANTHI faculty has delivered the online classes well and students have also accepted the online teaching methodology efficiently. Faculty is using latest ICT tools for better and swifter communication and presentation of ideas in more effective and relevant way. Tools like virtual labs, flipped classroom technique, Google classroom for assignments and study material, Google meet for online conduct of classes, video lectures, and Code-Zinger platform are regularly being used for effective teaching learning process.



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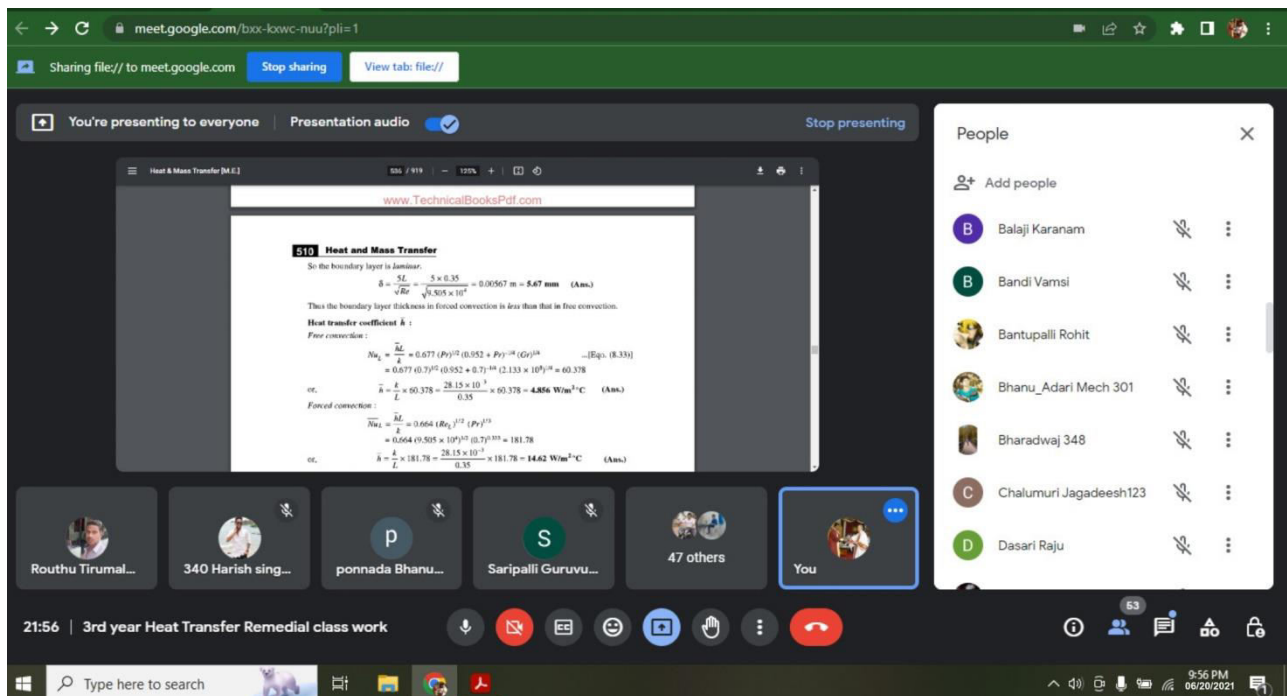
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AVANTHI ADOPTS ONLINE TEACHING & LEARNING METHODOLOGY:FOR LEARNING NEVER STOPS HERE

The ongoing health crisis due to the Pandemic COVID-19 has put the entire system in jeopardy. However, Technology has enabled our system to function in spite of geographic constraints. Students are spread across the country, and we are connecting to all our stakeholders and apprising them of the current situation while requesting them not to panic. The Lockdown may have slowed down our process, but it will not stop the Teaching & Learning Process. Our Faculty has adopted various innovative methodologies, are working from Home, and conducting classes to our Students. Our Faculty Mentors are Counseling and helping students to cope with the stress.



Online classes using Google Meet

We have adopted multiple platforms to continue the Teaching and Learning Process. Few of the strategies adopted by our Faculty are:

GOOGLE MEET

The Regular online classes are conducted using GOOGLE MEET Education Suite. We are using Google Education Suite for more than a decade. The Google Meet allows our Faculty to schedule classes and control who attends the classes. Through the Video Conferencing Class, Faculty will be able to present/ discuss/ and interact with the students. All the Departments have a schedule for the



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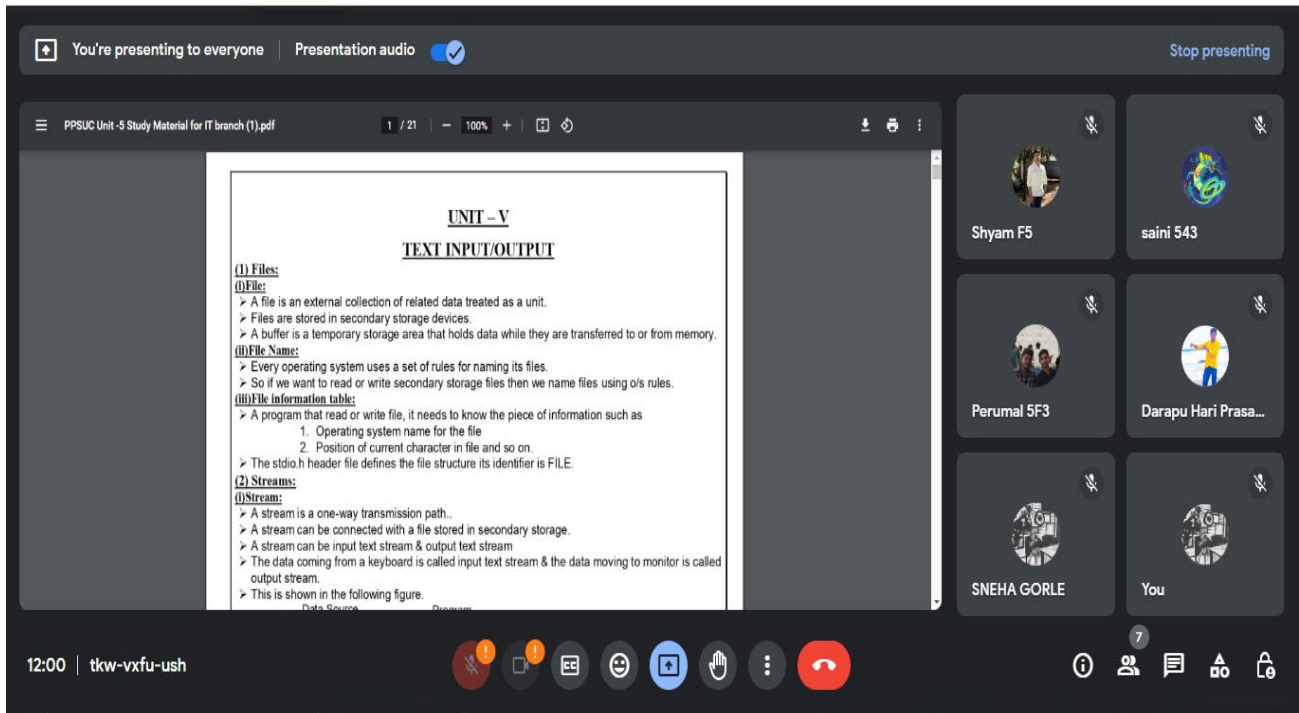
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classes and our Students have adapted to this new medium very quickly.



Online classes using Google Meet



Online classes using Zoom Meet



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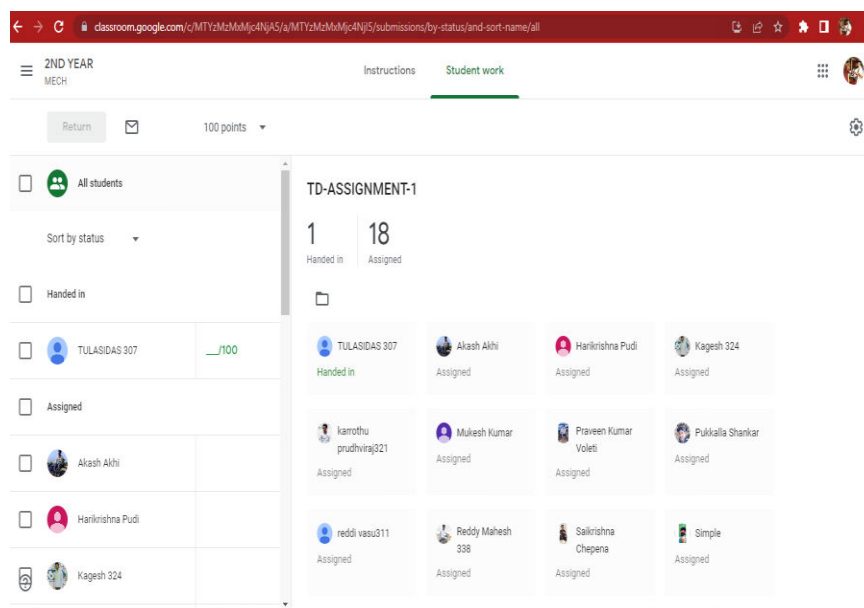
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GOOGLE CLASSROOM

The Google Classroom provides an overall Class communication, collaboration, and coaching network and also enables teachers to share content, distribute quizzes, assignments, and manage communication with students, colleagues, and parents. The students are shared detailed communication about the classes, classroom presentation materials and schedules are announced in classroom.



Student interaction regarding assignments using Google classroom

NPTEL COURSES

AVANTHI is one of the Top Ranked College in India in adopting Courses from India’s Top Collaborator of Courses – NPTEL and is listed as ‘Active Local Chapter’ since December 2018. The National Programme on Technology Enhanced Learning is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras, and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. Our Students are encouraged to register for courses in NPTEL and get certified.



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Url: www.aietta.ac.in

image of
the
professor

- SPOC Name - A. ARJUNA RAO
- Designation - HOD OF E.E.E
- Partnering since - 2018-02-23
- College Id - 1805 Institute Type - ENGINEERING, TECHNOLOGY AND MANAGEMENT

NPTEL is very happy to be associated with AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY institute and its students. We are thankful to A. ARJUNA RAO for being a pillar of support in NPTEL initiatives.

NPTEL Local Chapter

Hackathon:



Hackathonon Power BI



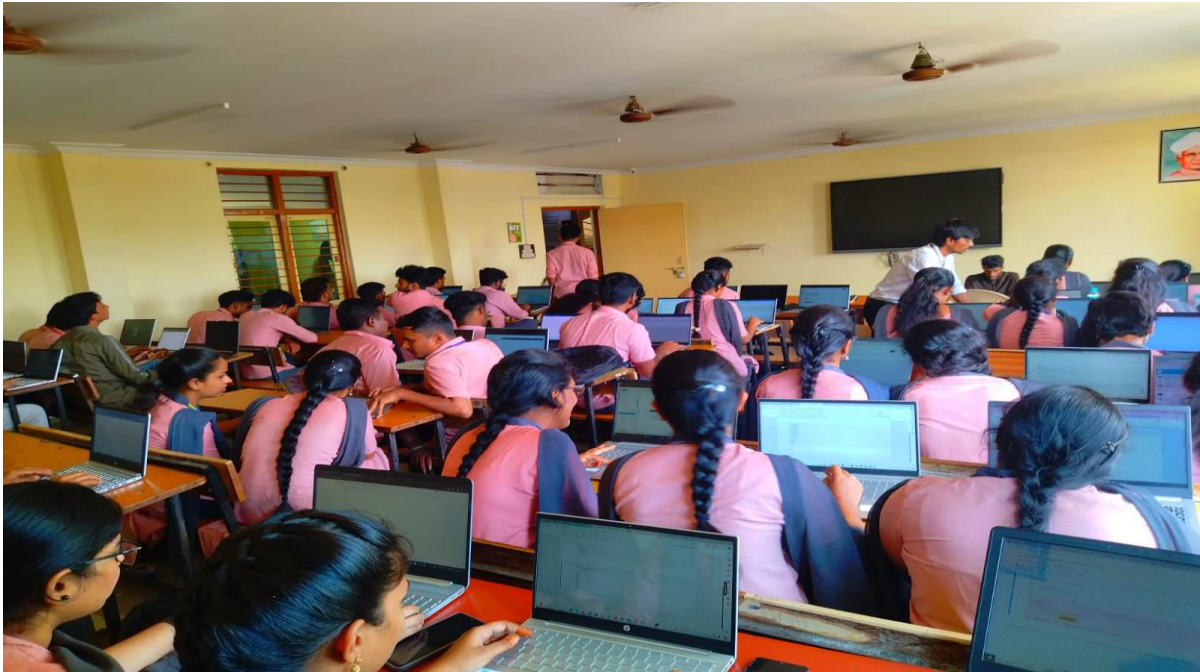
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SIH Hackathon-YouTube : <https://youtube.com/channel/UCKFoAW6qF6Mo9m7u44SSRKQ>



SIH Hackathon-YouTube



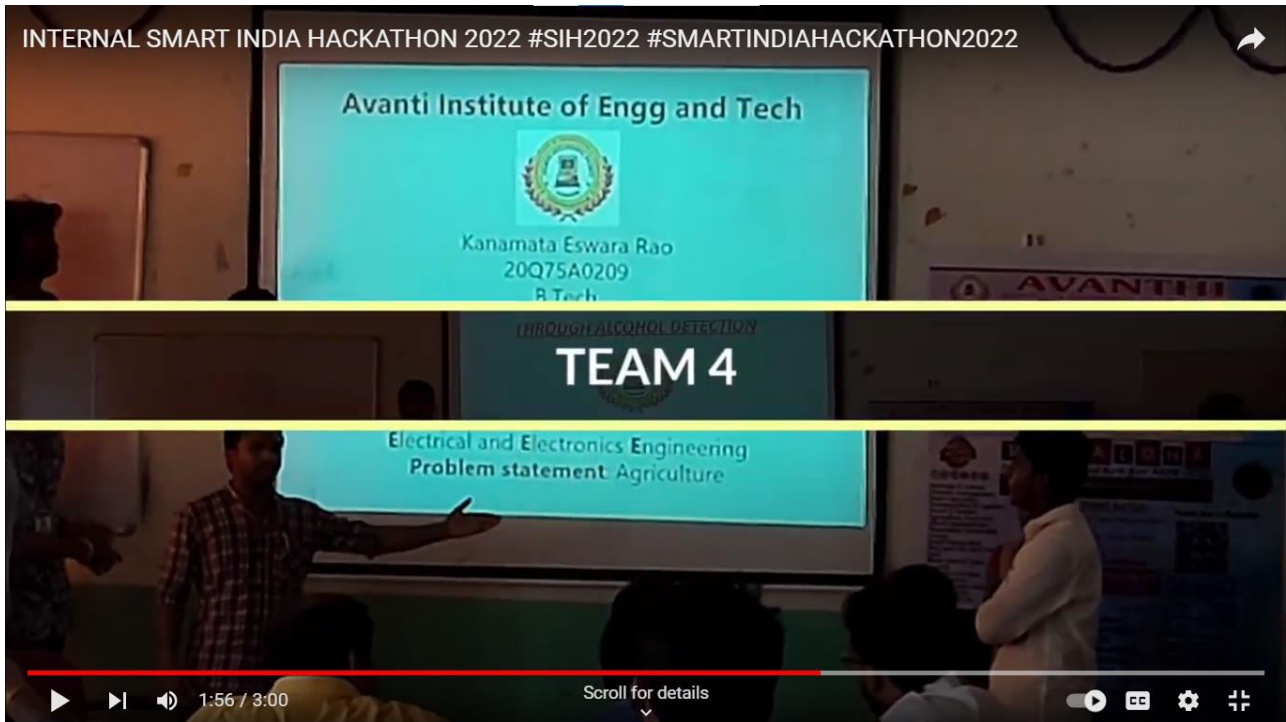
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Student Project Presentation-SIH Hackathon-YouTube

Flipped Classroom

A flipped classroom is an instructional strategy and a type of blended learning, which aims to increase student engagement and learning by having student's complete readings at home and work on live problem-solving during class hours. For various courses, this instructional strategy is being utilized for effective teaching learning process.



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Fig: B.Tech 3rd year Student is explaining the About Front end Technologies to 2nd CSM students



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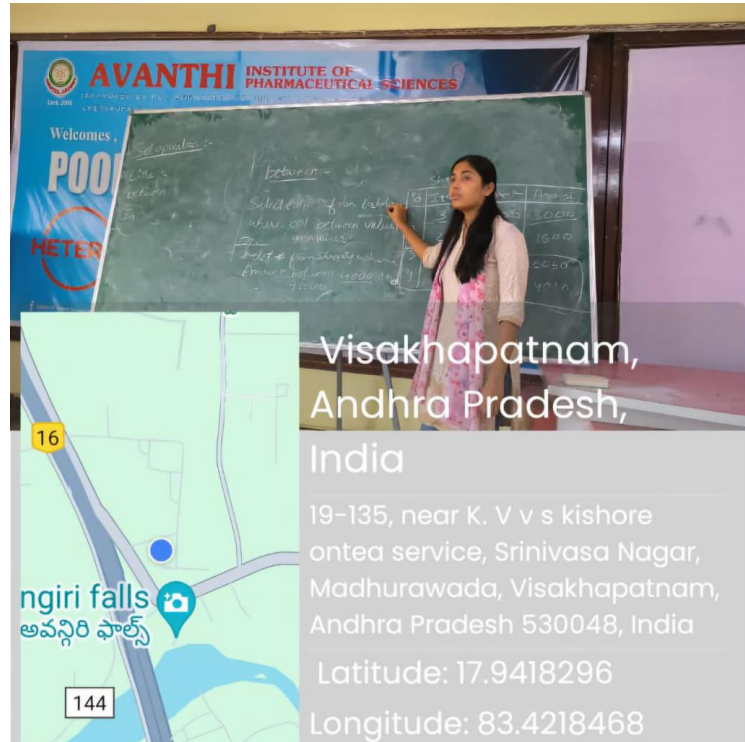


Fig: B.Tech 3rd year Student is explaining the About SQL to 2nd CSM students



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

FLIPPED CLASSROOM ACTIVITY

Concepts of Wireless Network

Out-of-class Activity Design

Link: <https://youtu.be/5ZNpvXGIy7A>

| CONCEPT VIDEO SEGMENT DURATION(in min) | | |
|---|-----------------|----------|
| Concept | Video segment | Duration |
| Introduction | V1 0.15 – 1.15 | 1.15 |
| Meaning of wireless networks | V2 1.16-4.25 | 3.12 |
| Types of wireless networks | V3 4.26 – 6.40 | 2 |
| Advantages and disadvantages of Wireless Networks | V4 6.41 – 11.35 | 5 |

TOTAL DURATION:11:35min

In-class Activity Design

Q1: What is the meaning of wireless networks?

Q2: What are types of Wireless networks?.

Q3: what are the advantages and disadvantages of wireless networks?



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

FLIPPED CLASSROOM ACTIVITY

Concepts of Queues

Out-of-class Activity Design

Link: <https://youtu.be/yzj0Ch01Exo>

| CONCEPT VIDEO SEGMENT DURATION(in min) | | |
|--|------------------|----------|
| Concept | Video segment | Duration |
| Structure of Queue | V1 0.15 – 3.25 | 3 |
| Queue Operations | V2 3.26 - 8.56 | 5.26 |
| Types of Queues | V3 8.57 – 10.56 | 2.1 |
| Applications Of Queues | V4 10.57 – 13.47 | 3.1 |

TOTAL DURATION: 13:47min

In-class Activity Design

Q1: Explain the Structure of Queue?

Q2: What are types of Queues?

Q3: what are the applications of Queues?



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

FLIPPED CLASSROOM ACTIVITY

Concepts of Data Models in DBMS

Out-of-class Activity Design

Link: https://youtu.be/NPT__vt-hCg

| CONCEPT VIDEO SEGMENT DURATION(in min) | | |
|--|-----------------|----------|
| Concept | Video segment | Duration |
| Introduction Of Data Models | V1 0.15 – 2.02 | 2.04 |
| Types of Data Models | V2 3.26 - 7.57 | 4.1 |
| Entity relationship model | V3 7.58 – 9.38 | 2.1 |
| Symbols in ER Diagram | V4 9.38 – 12.13 | 3.45 |

TOTAL DURATION:13:47min

In-class Activity Design

Q1: What is Data Model?

Q2: What are types of Data Models?

Q3: Explain the Entityrelationship model?

Q4: What are the symbols in ER Diagram?



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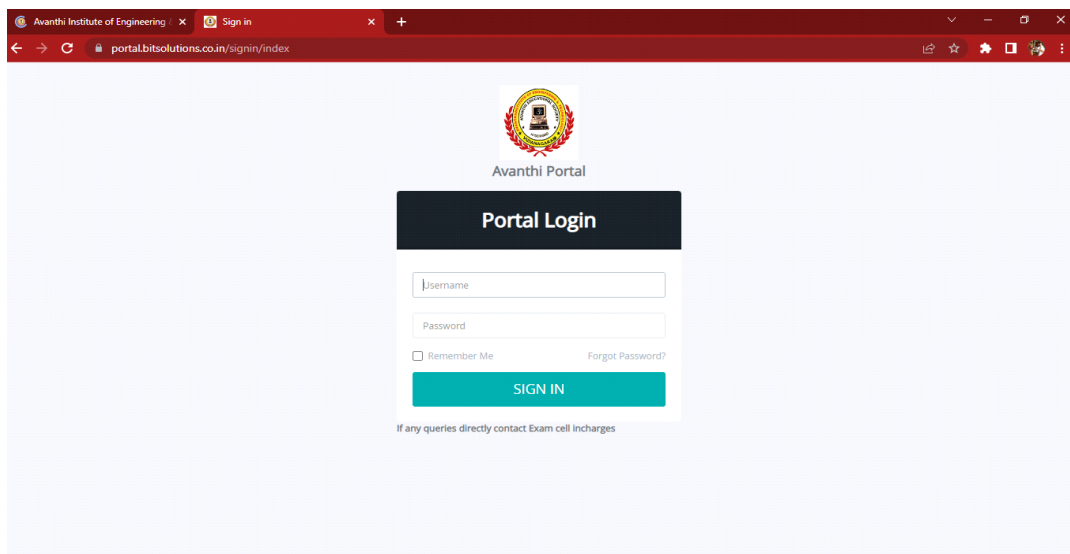
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ERP Solution – DHI

College uses ERP Solution DHI: Digital Transformation Suite for the Education Domain, powered by . It enables student management, class management, schedule preparation, attendance management, and overall academics management. In addition, DHI also has a module to conduct an online test, which is used for conducting quizzes. Students can login from desktop, laptop or mobile phone, enroll for the courses, view class time table, view calendar of events, view attendance, view lesson plan for all subjects, view notices, view internal assessment score, view university exam score, provide course-wise feedback for faculty members, view notifications and update their profile. Learning Management system also features Online MCQ tests & evaluation, question bank and hosting of online courses (recorded sessions).

Screenshot-1



Student Login-Website



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Screenshot-2

Copyright © Avanathi ERP v 4.2

Student profile-Website

Screenshot-3

| # | Subject Name | Subject Short Name | Subject Code | Teacher | Type |
|---|--|--------------------|--------------|---------------------|-----------|
| 1 | ENGLISH | ENGLISH | ENG | Ms V K Maha Lakshmi | Mandatory |
| 2 | ENGINEERING CHEMISTRY | CHEM | CHEM | Dr Sandhya Rani | Mandatory |
| 3 | ENGINEERING MECHANICS | EM | MECHANICS | P SURESH KUMAR | Mandatory |
| 4 | BASIC ELECTRICAL AND ELECTRONICS ENGINEERING | BEE | BEE | Mr.G.Prasanth | Mandatory |
| 5 | COMPUTER AIDED ENGINEERING DRAWING | DRAWING | DRAWING | Mr K Srinu | Mandatory |

Showing 1 to 5 of 5 entries

Student Dash Board-Website



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NAAC "A+" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

Library e-resources, Journals, Books

AVANTHI is having a fully computerized centrally air-conditioned library spreading across two levels with a rich collection of books and periodicals. The library has a collection of 5,033 Titles, 26,318 Volumes, most of the Standard National and International Journals of Engineering and Management stream. AVANTHI has subscribed to the National Digital Library to provide e-resources to all the learners.

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AVANTHI has a fully computerized centrally air-conditioned library spread across two levels, with a rich collection of books and periodicals. The Library has a collection of 6,865 Titles, 36,846 Volumes, most of the Standard National and International Journals of Engineering and Management Stream. The reference section is a large repository of books, periodicals and journals that provides the reader with the most advanced information in the field of Science, Technology, and Management. As per AICTE, Library has subscribed for e-Journals and e-books through Consortium Membership.

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- National Digital Library-(DELNET)

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- Open Access services
- Computerization of Library with Standard Digital Software Soul 2.0 for Circulation
- Displaying Newspaper Clippings and information on the notice board (New arrivals, Competitive Exams, Career, Employment, etc.)
- Internet facilities for the access of e-Resources (e-journals & e-books)
- Reference Services
- OPAC Online Public Access Catalogue



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- User Information Literacy Programs (Conducting Seminars and talks and Book exhibitions during different occasions)
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Library Facilities and Services

| Sl. No. | Name of the Branch | No. of Volumes | No. of Titles | No. of International Journals | No. of National Journals | E-Journals | Electronic Journals |
|---------|--|----------------|---------------|-------------------------------|--------------------------|------------|--|
| 1. | Electronics Engineering | 7049 | 1298 | 3 | 10 | 2453 | DELNET (2204) Knimbus (10230) & MAT Journals (20) |
| 2. | Computer Science Engineering | 9675 | 1507 | 5 | 19 | 3592 | |
| 3. | Electrical Engineering | 3506 | 712 | 1 | 4 | 2035 | |
| 4. | Mechanical Engineering | 6462 | 1316 | 2 | 3 | 1968 | |
| 5 | CSE – Artificial Intelligence & Machine Learning | 1087 | 215 | 2 | 6 | 457 | |
| 6 | CSE – Data Sciences | 624 | 116 | 1 | 3 | 238 | |
| 7. | M.B.A. | 8113 | 1589 | 2 | 10 | 1049 | |
| 8. | M.Tech (Computer Science) | 574 | 142 | 1 | 0 | 235 | |
| 9. | M.Tech (VLSI) | 426 | 108 | 1 | 0 | 106 | |
| 10. | M.Tech (P.E.) | 339 | 84 | 1 | 0 | 79 | |
| 11 | M.Tech (P.S.) | 242 | 58 | 1 | 0 | 76 | |
| 12 | M.Tech (CAD / CAM) | 342 | 83 | 1 | 0 | 82 | |
| 13 | M.C.A | 604 | 154 | 2 | 10 | 84 | |
| 14 | Diploma | 463 | 78 | - | - | - | |
| TOTAL | | 39506 | 7460 | 23 | 65 | 12454 | |



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HTNO: 24Q71AD4HD
Name: SIRA SWATHI
Branch: ECE SEM: I

Home Logout

Student Portal

| Basic Information | Student Information |
|----------------------|--------------------------------------|
| Academic Information | Hall Ticket No: 24Q71AD4HD |
| Exam Time Tables | Admin Date: 05/08/2024 |
| Online Fee Payments | Batch: 2024 - 2025 |
| Marks Details | DOB: 02/06/2006 |
| Contact Us | Caste Category: BC-D |
| | Name: SIRA SWATHI |
| | Father Name: SIRA KRISHNA |
| | Mother Name: SIRA APPARIMA |
| | Student Email: swathisra65@gmail.com |
| | Parent Mobile No: 9374269371 |
| | Aadhar No: 578848283545 |

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Name: SIRA SWATHI
Branch: ECE SEM: I

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External Exam Time Table

Exam Type: R Sem: I Month/Year: DECEMBER 2024 Show Time Table

| Subject Name | From Date | To Date | Session |
|--|------------|---------|--------------------|
| R24ES03 - Problem Solving and Programming with C Lab | 23-12-2024 | | 1:00PM TO 4:00PM |
| R24ES07 - Basic Electrical and Electronics Engineering Lab | 24-12-2024 | | 10:00AM TO 01:00PM |
| R24ES01 - Linear Algebra and Calculus | 09-12-2024 | | 1:00PM TO 4:00PM |
| R24ES06 - Engineering Graphics | 31-12-2024 | | 9:30AM TO 12:30PM |
| R24ES05 - Applied Chemistry | 03-01-2025 | | 1:00PM TO 4:00PM |
| R24ES05 - Basic Electrical and Electronics Engineering | 05-01-2025 | | 1:00PM TO 4:00PM |
| R24ES02 - Problem Solving and Programming with C | 09-01-2025 | | 1:00PM TO 4:00PM |
| R24ES06 - Applied Chemistry Lab | 10-01-2025 | | 10:00AM TO 01:00PM |
| R24ES08 - Engineering Workshop | 11-01-2025 | | 10:00AM TO 01:00PM |

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