



Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The Chirala Engineering College adopts a teaching strategy that emphasizes education delivery using a student-centric approach. Along with building students' confidence and fostering flexibility and creativity, this practice helps pupils move from being treated as passive recipients to active participants. It is impossible to fulfill the needs and expectations of individual students in a teacher-centered class and expect a consistent learning outcome from them all since students differ in their capacity for comprehension and absorption. The teacher encourages learning by ensuring that each student participates in class activities so that they can individually understand at their own level and process material at their own pace.

Chirala Engineering College offers an environment for students to build cutting-edge and practical knowledge, beliefs, and abilities that will help them behave appropriately. Every department runs creative initiatives that encourage students' imaginations, give them a place to practice their problem-solving techniques, and promote active learning. Through various technical events, the students can display their knowledge through creative projects. Competitions at the inter-college and national levels inspire students to take part.

Various Student centric instructional methods used are:

- Lecturing/ Tutorials
- Experiential Learning
- Participative learning
- Problem solving methods.

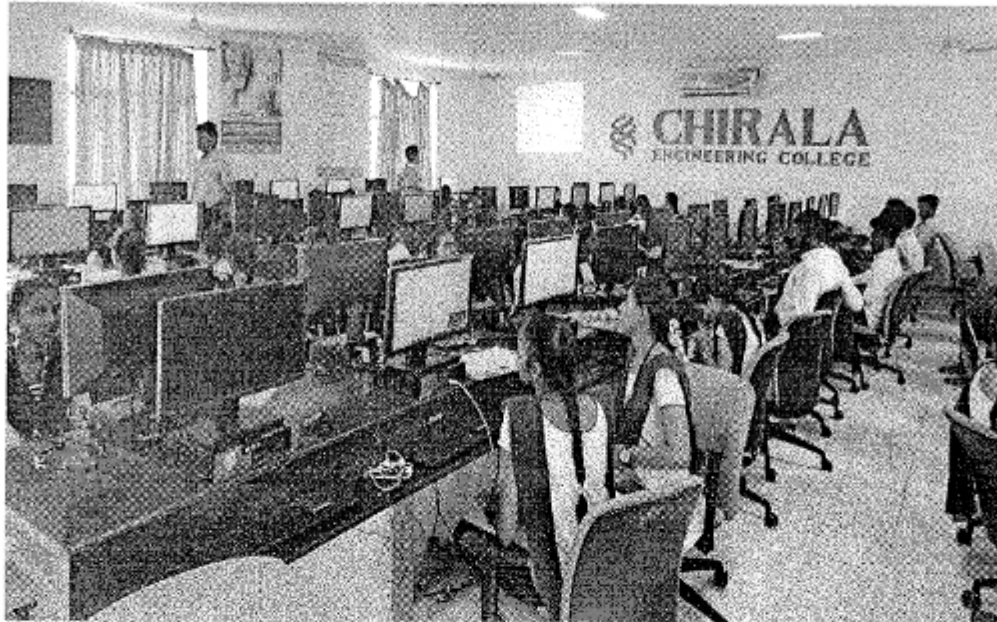
Chirala Engineering College focuses on the student-centric methods of enhancing lifelong learning skills of students and helps them to transform into professionals. Faculty members make efforts in making the learning activity more interactive by adopting the below mentioned student-centric methods in addition to Chalk & Talk Lectures, power point presentations and tutorials.

Experiential Learning	Participative learning	Problem Solving Methods
<ul style="list-style-type: none">▪ Labs (Hands-on Sessions)▪ Workshops/ Conferences/ Guest Lectures▪ Learning by ICT Tools▪ Field Exercises▪ Projects	<ul style="list-style-type: none">▪ Poster Presentations▪ Paper Presentations▪ Internships▪ Assignments▪ Online Assessments▪ Seminars	<ul style="list-style-type: none">▪ Quizzes▪ E-Learning facility through NPTEL, etc.



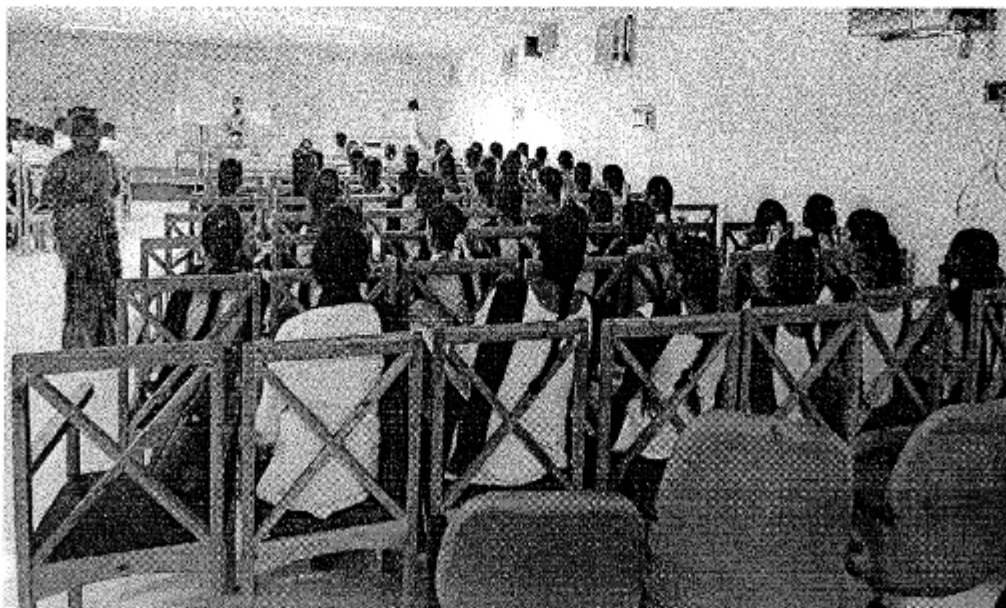
Experiential Learning:

- Labs (Hands-on Sessions):



Students are encouraged to get practical exposure in labs by hands-on sessions and performing the exercises and experiments. The above picture is related to a Lab Session of 3rd Year CSE Students doing Big Data Analytics Lab.

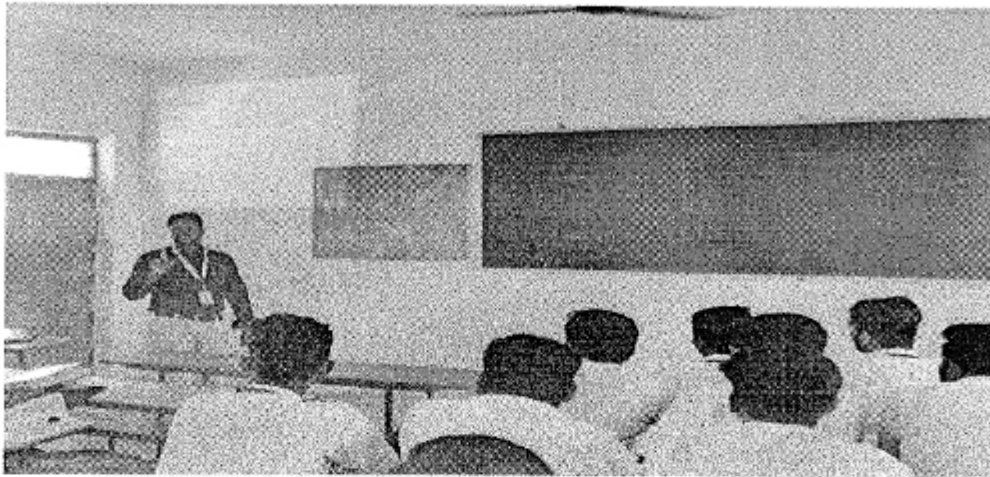
- Workshops/ Conferences/ Guest Lectures:



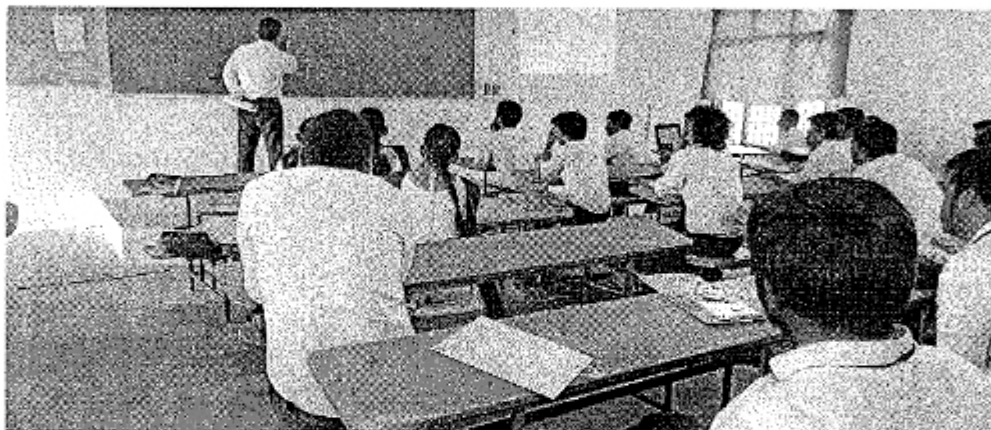
Apart from curriculum, we encourage our students to participate in the Workshops/ Conferences/ Guest Lectures. The above picture is on 19-04-2023 Build Applications using Python Workshop organized by CodeSpoon IT Solutions Vijayawada.



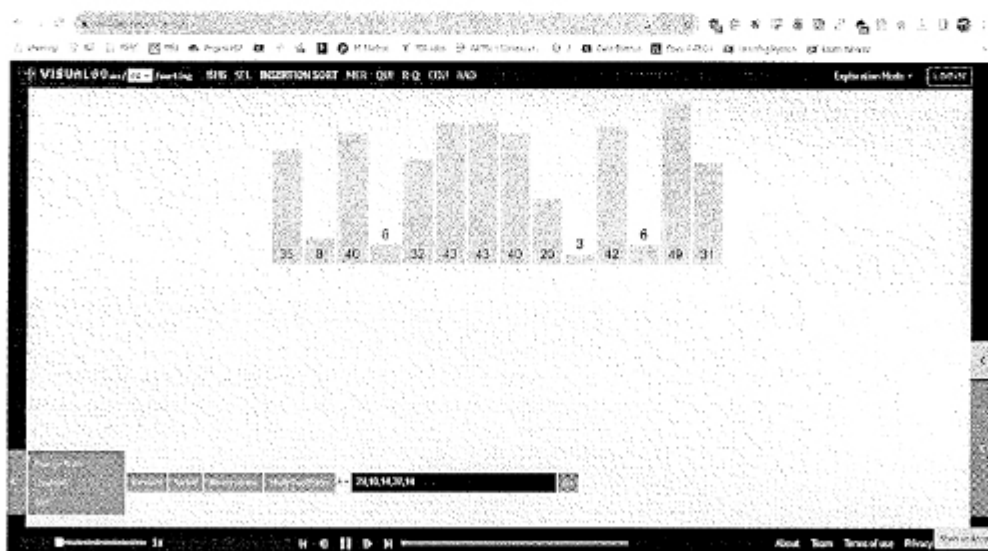
▪ Learning by ICT Tools:



Faculty Dealing JAVA Class using both Blackboard and Projector to Demonstrate Threading Concept, etc.



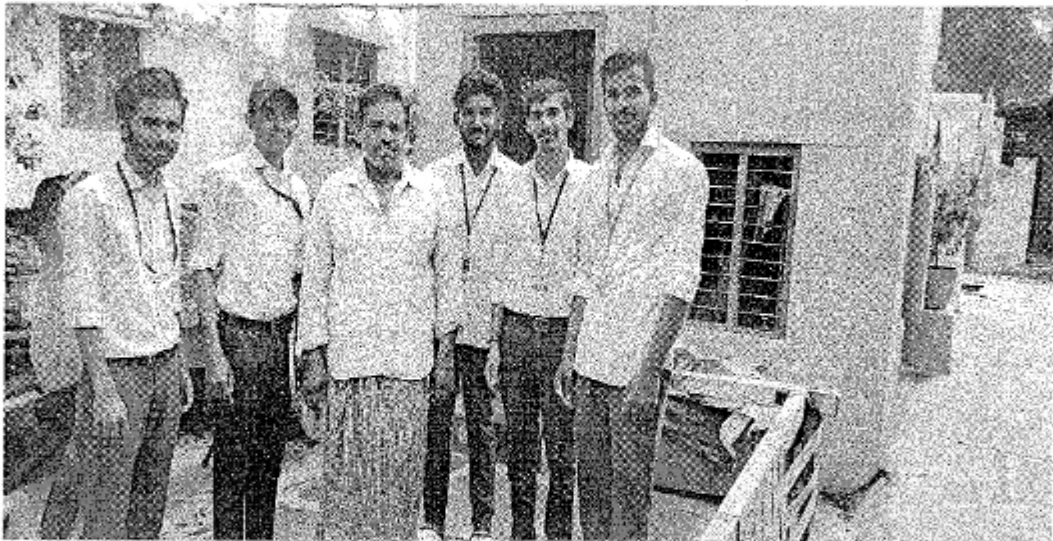
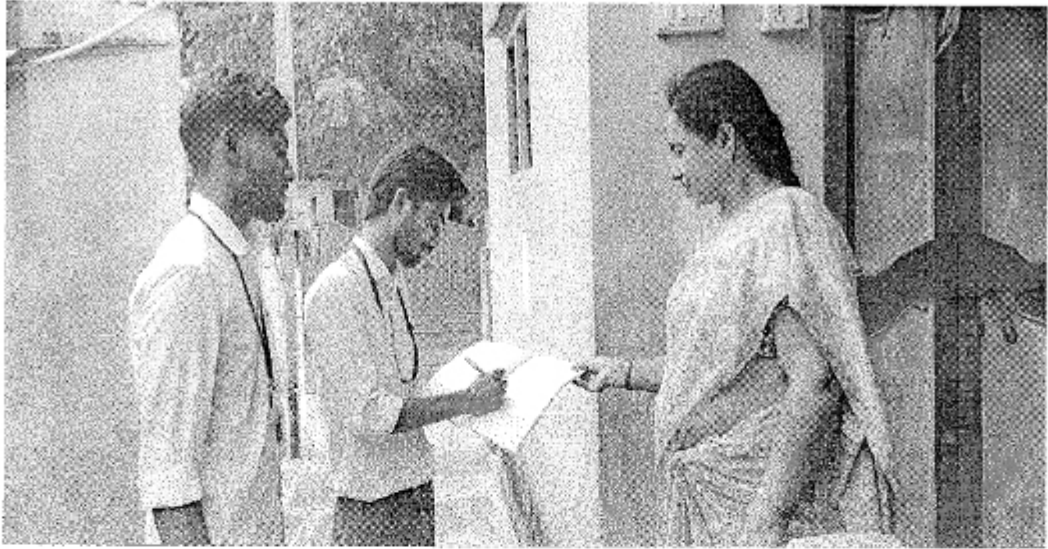
Faculty Dealing Design and Analysis of Algorithms Class using both Blackboard and Projector to Demonstrate Threading Concept, etc.



Faculty utilizes Movable Projectors to make students to visualize the concepts by the form of presentations, websites, animations etc. to provide 200% understanding.



▪ **Field Exercises:**



11-11-2022 - Students Participation in Community Service Projects, Surveys, Various other activities etc



■ **Projects:**

A Project report on
YOLOV4 AF: A NEW VEHICLE DETECTION AND CLASSIFICATION MODEL

(Partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BY

A.VENKATA KRISHNA REDDY Regd. No. 19E91A0539
KVAMSI KRISHNA Regd. No. 19E91A0537
D.PRUDHVI Regd. No. 19E91A0522

UNDER GUIDANCE OF

MR. N.MOULALI, M.Tech
 (Assistant Professor, CBE & IT Department)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
 CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)
 Ramaprasad Beach Road, Chirala, PRAKASHAM (DIST) Anaparthi Prathala, -
 523157
 (Affiliated to JNTUK, Kakinada)
 2022-2023

CHIRALA ENGINEERING COLLEGE :: CHIRALA

Ramaprasad Beach Road, Chirala - 523157 (Dist: Prakasam) Anaparthi Prathala, - 523157
 (Affiliated to JNTUK, Kakinada)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that this is the Bonafide record of the Seminar Title **YOLOV4 AF: A NEW VEHICLE DETECTION AND CLASSIFICATION MODEL** is submitted by **A.VENKATA KRISHNA** Regd. No.19E91A0539 **KVAMSI KRISHNA** Regd. No. 19E91A0537 . . **D.PRUDHVI** Regd. No. 19E91A0522 of B. Tech in the partial fulfillment of the requirements for the partial instructions of project in the degree of Bachelor of Technology from Computer Science and Engineering, to **CHIRALA ENGINEERING COLLEGE, CHIRALA (CECC-E9)**, affiliated to Jawaharal Nehru Technological University Kakinada (JNTUK) and this Bonafide work carried out by them.

N.A.
 Internal Guide

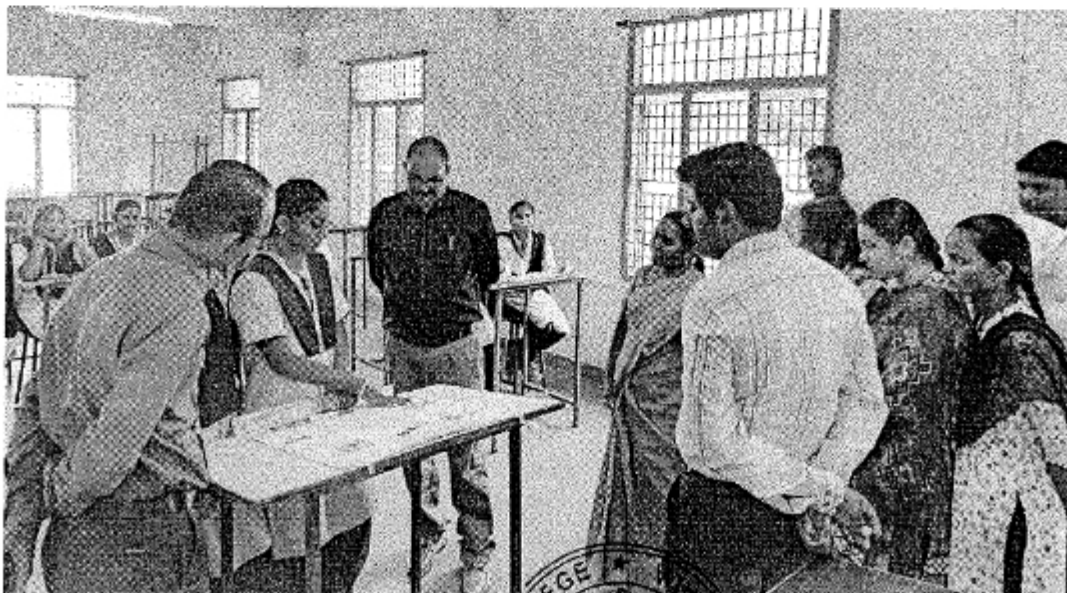
gtd
 Head of the Department
 Head of the Department
 Department of C.S.E.
 CHIRALA ENGINEERING COLLEGE
 CHIRALA-523157

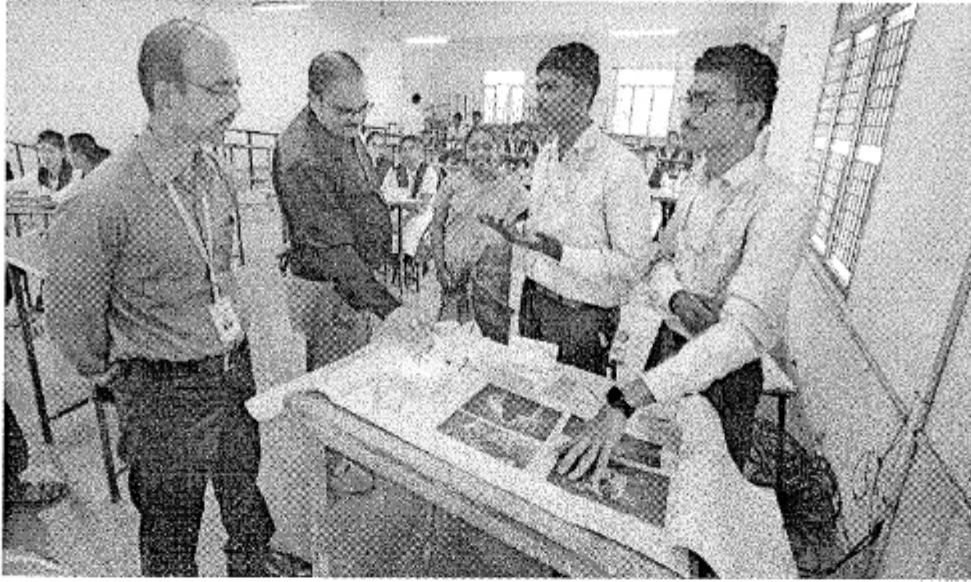
External Examiner
 EXTERNAL EXAMINER

Sample of Student Project work Thesis Report (2019-2023 Batch Student – A. Venkat Krishna's Thesis YoLoV4 AF: A New Vehicle Detection and Classification Model).

Participative Learning:

■ **Poster Presentations:**





సమాజానికి ఉపయోగంగా సాంకేతికత ఉండాలి

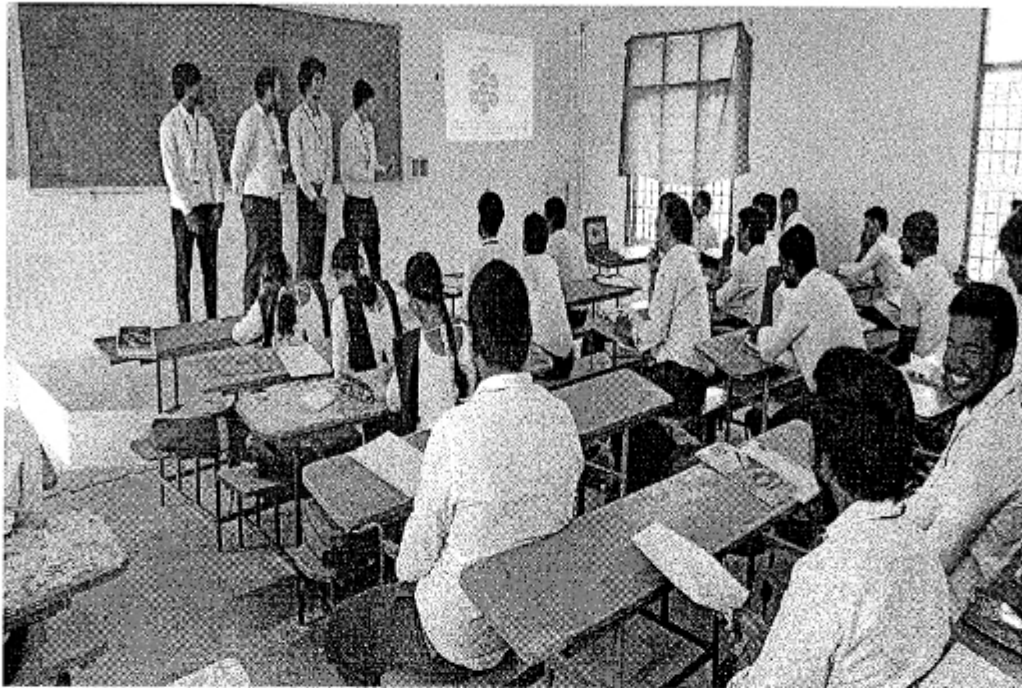


వేటపాలెం, ఫిబ్రవరి 28 (కోస్తా సమయం) : సమాజానికి ఉపయోగపడేవిధంగా సాంకేతికత ఉండాలని, ఇప్పుడే దానికి సార్థకత అని చీరాల ఇంజనీరింగ్ కాలేజ్ ప్రిన్సిపాల్ డాక్టర్ పి. రవికుమార్ తెలిపారు. జాతీయ సైన్స్ దినోత్సవాన్ని పురస్కరించుకొని మంగళవారం చీరాల ఇంజనీరింగ్ కళాశాలలో వివిధ కార్యక్రమాలు నిర్వహించారు. పోస్టర్ ప్రజెంటేషన్, పేపర్ ప్రజెంటేషన్, ప్రాజెక్టు ఎక్స్పిజిషన్ వంటి కార్యక్రమాలలో విద్యార్థులకు పోటీలు నిర్వహించారు. ఆయా కార్యక్రమాలలో విద్యార్థులు ఉత్సాహంగా పాల్గొని తమ ప్రతిభను చాటారు. ఈ సందర్భంగా జరిగిన బహుమతి ప్రధానోత్సవ కార్యక్రమంలో రవికుమార్ మాట్లాడుతూ విద్యార్థులు సమాజానికి అవసరమైన నూతన అవిష్కరణల పట్ల ఆసక్తిని చూపాలని సూచించారు. అనంతరం వివిధ అంశాలలో విజేతలకు బహుమతులు ప్రధానోత్సవం చేశారు. ఈ కార్యక్రమంలో హెచ్ఎంసీలు డాక్టర్ షేక్ బషీర్, డాక్టర్ శ్రీకాంత్, డాక్టర్ సౌజన్య, డాక్టర్ శ్రీనివాసరావు, ప్రకాష్ రాజ్, విజ్ఞానులర్, ఆశాద్లు, సహాయ అచార్యులు పాల్గొన్నారు.

Organized Poster Presentation Event on the National Science Day (28-02-2023).



▪ Paper Presentations:



Occasionally we conduct Paper Presentation Sessions to unleash the potential of technology usage and creativity of the students (Students Paper Presentation on Internet of Things Concept).

▪ Internships:



INTERNSHIP
COMPLETION CERTIFICATE

OFFICIAL INTERNSHIP PARTNER: *PROUDLY PRESENTED TO:*

 **E-Cell**
IIT Hyderabad

AKARAMSETTI MANOJ SAI

has successfully completed 2 months Internship from 01/04/2023 to 31/05/2023 in Web Development at YHills.

Certificate ID : YHI-5003021

15/06/2023
DATE


AMAN KUMAR, CO-FOUNDER

As Part of Curriculum, Students undergo Internships, The above is a Student Internship Completion Certificate.



Assignments:

Name: Pooja Pooja Vats
 Roll No: 18CCE1A1013

Assignments
Programming for Problem Solving using C

Department of Information Technology
 B20 Regular
 1 Year - 1 Semester
 2021-2020 Batch

Sr. No.	Topic	Page No.	Mark
01/11/20	UNIT-1 Assignment	1-5	5
01/12/20	UNIT-2 Assignment	6-8	3
01/11/21	UNIT-3 Assignment	9-11	3
11/12/21	UNIT-4 Assignment	12-14	3
20/11/23	UNIT-5 Assignment	15-18	3

Total Marks: 15/15

Signature: P.P. Vats

ASSIGNMENT-1

Write the importance of precedence and associativity, write the rule for operator precedence. Illustrate with an example.

- Precedence:**
- * precedence is used to determine order of operations in an expression.
 - * In a programming lang. operator has precedence.
 - * when there is more than one operator in an expression it is known as high precedence operator with least precedence it is left.
- Associativity:**
- * Associativity is used to determine order of operations in equal precedence.
 - * when 'c' programming language when a expression contains multiple operators with equal precedence.

Precedence	operation	operation meaning	Associativity
2	+ - ++ -- & *	adding plus subtract minus increment operation decrement operation address of operation pointer	right to left
3	* / %	multiplication division remainder	left to right

1.	+ -	addition subtraction	left to right
5.	<< >>	left shift right shift	left to right
6.	< <= > >=	less than less than or equal greater than greater than or equal	left to right
11.	&&	logical AND	left to right
12.		logical OR	left to right
8.	&	bitwise AND	left to right
10.		bitwise OR	left to right

Example:

1. $10 + 5 * 2 - 2 / 4 + 2 * 5$ 2. $6 * 2 (2 + 1 * 2) / 3 + 6 + 8 * (3 / 4)$

$10 + 10 - 0.5 + 2$ $12 (2 + 2) / 3 + 6 + 8 * (0.75)$

$12 - 0.5 + 2$ $12 * 2 / 3 + 6 + 8 * 0.75$

$14 - 0.5$ $24 / 3 + 6 + 8 * 0.75$

13.5 $8 + 6 + 8 * 0.75$

13.5 $14 + 6 + 6$

13.5 $20 + 6$

13.5 26

After Completion of Each Unit, Faculty Assigns Some Questions as Assignments to the Students to check their levels of understanding and check creativity in presenting a topic on the paper.

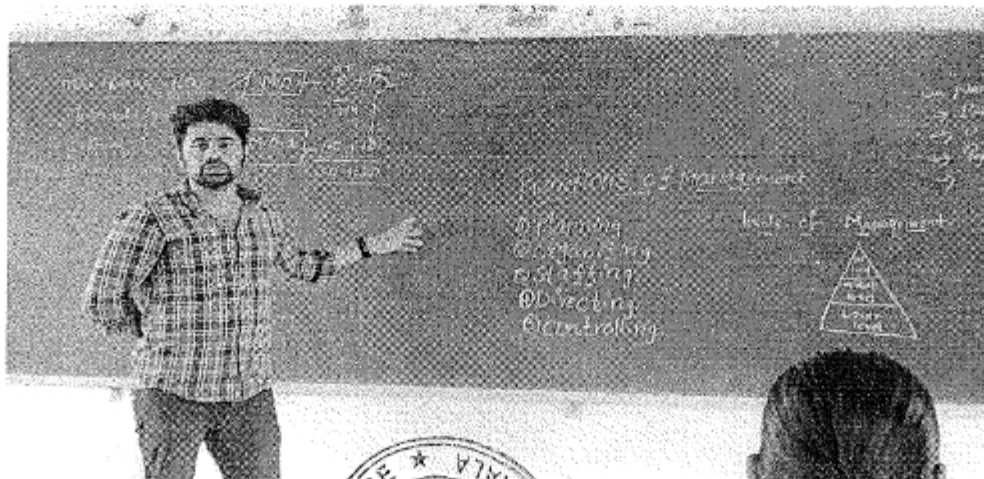
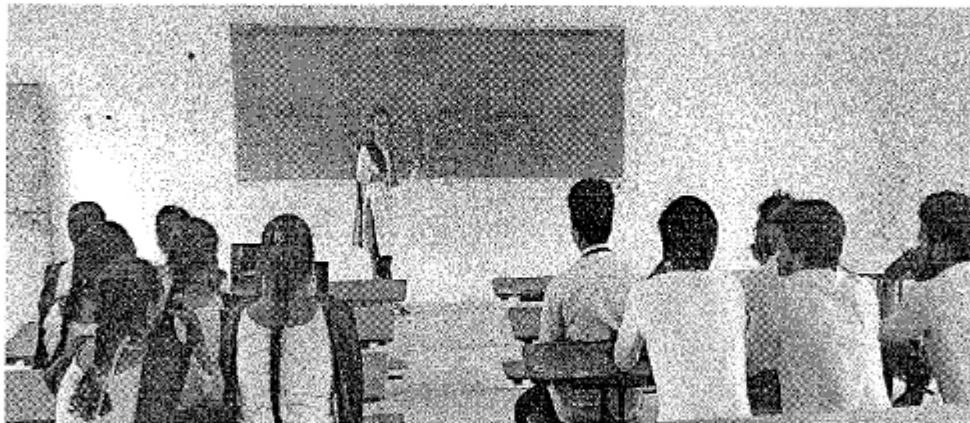


▪ Online Assessments:



In Vacations, Faculty Assigns Some Questions as Assessments to the Students to check their levels of understanding and remembering via Google Classroom, etc..

▪ Seminars:

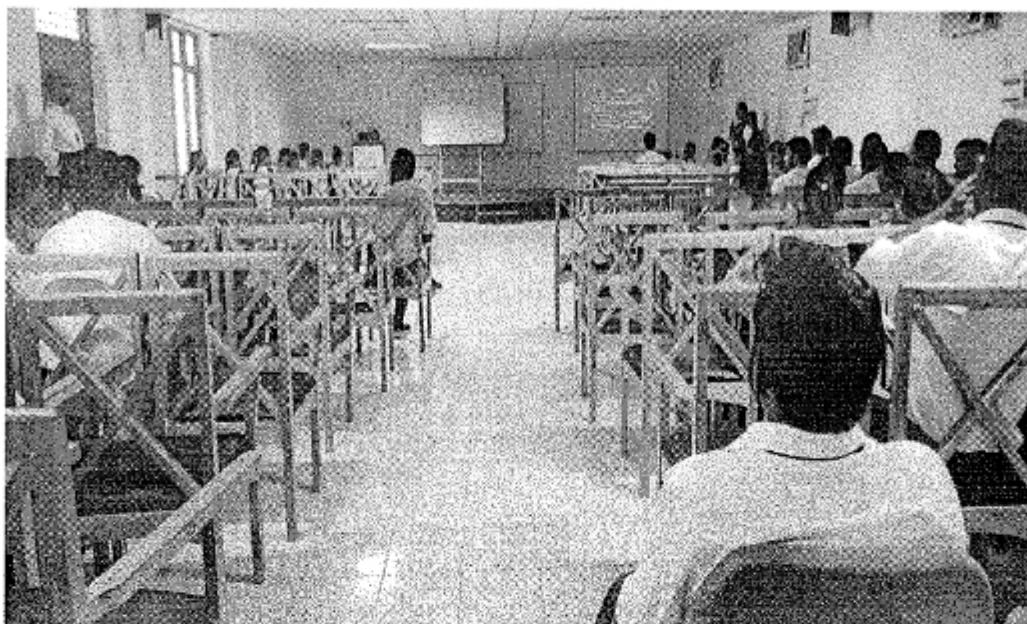


Regularly we conduct Seminars/ Sessions to unleash the speaking potential of students and enhance their communication skills.




Problem Solving Methods:

- Quizzes:



We Organize Quiz Competitions to Students and Make them to reveal their problem-solving skills and team building and leadership skills. The Above Picture is on a Quiz Competition Conducted by Coders Paradise Technical Club, Department of CSE.

- E-Learning Facilities:



NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to
PRATHIGUDUPU JYOTHI
for successfully completing the course

CMOS Digital VLSI Design

with a consolidated score of **42** %

Online Assignments	12.29/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **528**



Prof. Sanjeev Manhas
Coordinator, E-learning Education Centre
IIT Roorkee


Jan-Mar 2023
(8 week course)



Prof. Prati Mishreshwar
NPTEL Course
IIT Roorkee



Indian Institute of Technology Roorkee



swayam

PGI No: NPTEL 23EC 0544160112 To validate this certificate No. of credits recommended: 2 or 3

We Encourage our students to pursue Online Courses through various online portals such as Swayam/NPTEL/Coursera to learn new technologies and new challenges and to improve their problem-solving nature.



PRINCIPAL
CHIRALA ENGINEERING COLLEGE
CHIRALA
P. Sree

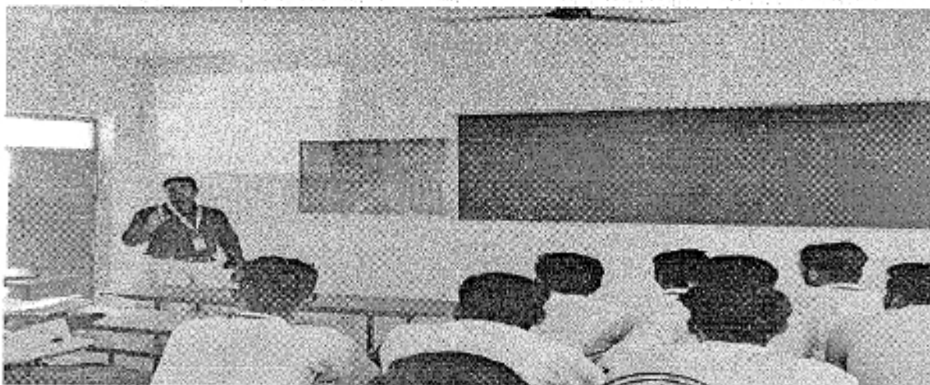


Teachers use ICT enabled tools for effective teaching-learning process

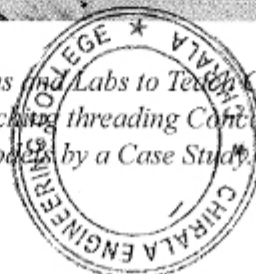
It is essential that teachers use the most recent ICT in their classrooms. ICT-enabled technologies have thus taken centre stage in the development of curriculum frameworks. In addition to using traditional classroom teaching techniques, Chirala Engineering College has also implemented ICT-enabled teaching strategies. To teach cutting-edge technology and practical knowledge, the faculty makes use of ICT-enabled learning materials such PowerPoint presentations, video clips, audio systems, and web sources.

In some classrooms, the faculty makes use of multimedia teaching tools such LCD projectors and internet-connected computers and laptops. The faculty keeps up with cutting-edge technology by using electronic resources from platforms including DELNET, NDLI, NPTEL/SWAYAM, COURSERA, and the Digital Library etc. Online classrooms like Google Classrooms are also available. These systems make it easier for teachers to distribute lessons, resources, tests, and homework to students. This facilitates regular and simple evaluation of the pupils' learning progress. For holding guest lectures and seminars, the seminar rooms are equipped with multi-media, fast internet, and Wi-Fi.

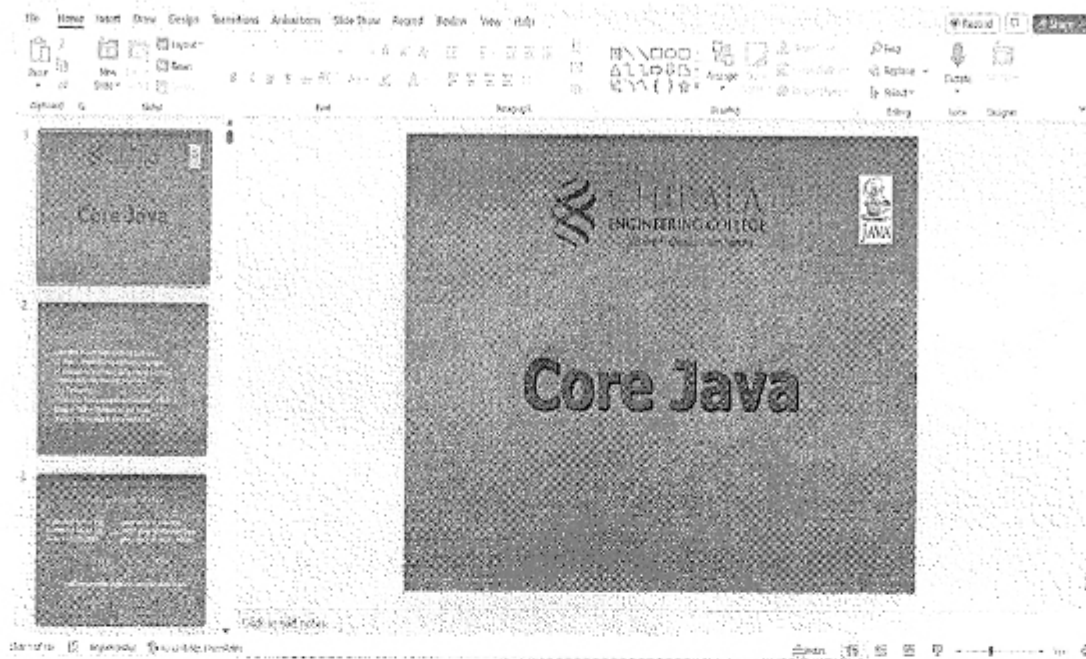
▪ Usage of Projectors in Labs and Classes:



The faculty uses Movable Projectors in the Classrooms and Labs to Teach Classes in an Interactive and Visualizations Mode. In Classroom, Faculty Teaching threading Concept in Java and In Lab, Faculty Teaching Business Models by a Case Study.

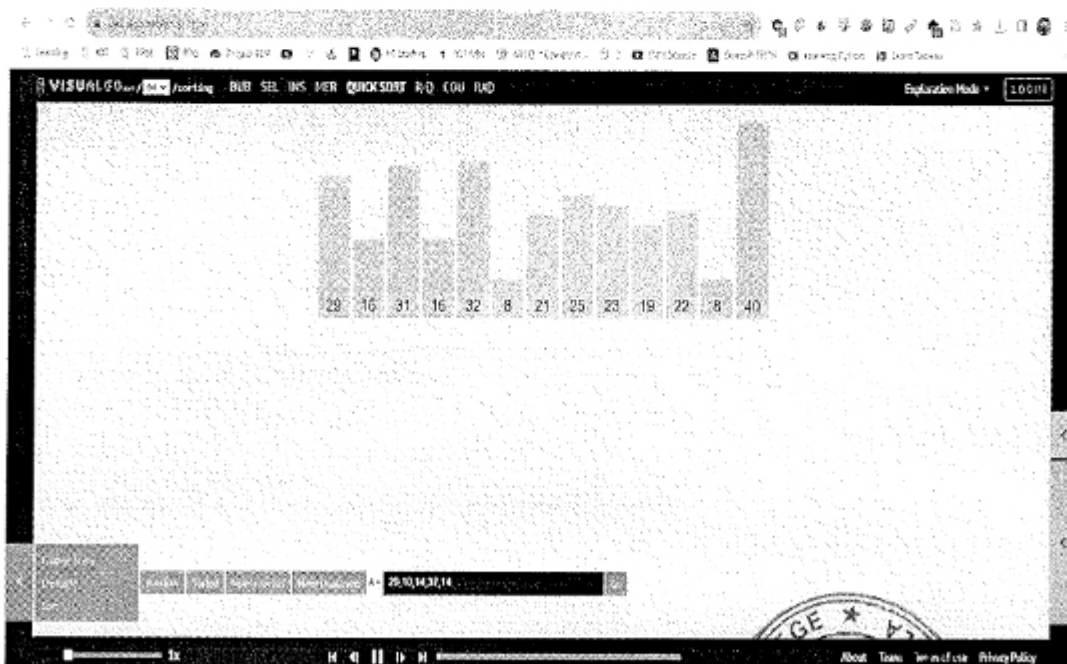


- **Usage of PowerPoint Presentation to teach in Labs and Classes:**



*To Teach Effectively and Efficiently to the Students, Faculty uses
PowerPoint Presentations etc.*

- **Usage of Websites and Animation Sites to teach the Concepts to students Visually:**



<https://visualgo.net/en/sorting>



Interface with SWAYAM as a Local Chapter

Submit your credit transfer grievances

SWAYAM Courses in Regional languages

Let COVID-19 not stop your Learning. Continue with SWAYAM

Apply for SWAYAM Courses

Apply for SWAYAM Courses

NATIONAL COORDINATORS

Faculty were Encouraged to pursue online certifications for self-betterment and benefit for the students. (<https://swayam.gov.in/>)

Utilizing Resources through Virtual Labs:

Pointers

```

#include <stdio.h>
void main()
{
    int A = 10;
    printf("Value of A is %d\n",A);
    printf("Address of A is %d\n",&A);
    int *P;
    P = &A;
    printf("Value of P is %d\n",*P);
    printf("Address of P is %d\n",&P);
    printf("Value at the address in P is %d\n",*P);
    *P = 20;
    printf("New Value of A is %d\n",A);
}
    
```

Address	0x7c1	0x7c2	0x7c3	0x7c4	Value
0x7c0					
0x7c1					
0x7c2					
0x7c3					
0x7c4					
0x7c5					
0x7c6					
0x7c7					
0x7c8					
0x7c9					
0x7ca					
0x7cb					
0x7cc					
0x7cd					
0x7ce					
0x7cf					
0x7d0					
0x7d1					
0x7d2					
0x7d3					
0x7d4					
0x7d5					
0x7d6					
0x7d7					
0x7d8					
0x7d9					
0x7da					
0x7db					
0x7dc					
0x7dd					
0x7de					
0x7df					
0x7e0					
0x7e1					
0x7e2					
0x7e3					
0x7e4					
0x7e5					
0x7e6					
0x7e7					
0x7e8					
0x7e9					
0x7ea					
0x7eb					
0x7ec					
0x7ed					
0x7ee					
0x7ef					
0x7f0					
0x7f1					
0x7f2					
0x7f3					
0x7f4					
0x7f5					
0x7f6					
0x7f7					
0x7f8					
0x7f9					
0x7fa					
0x7fb					
0x7fc					
0x7fd					
0x7fe					
0x7ff					
0x800					

Code Output

Explanations

<https://cse02-iiith.vlabs.ac.in/exp/pointers/simulation.html>



PRINCIPAL
CHIRALA ENGINEERING COLLEGE
Chirala
Jeevesh Ch