CHIRALA
ENGINEERING COLLEGE

Awarded 'A' Grade by APSCHE,ISO 9001-2008 certified Institute
(Approved by AICTE and Affiliated to JNTUK - Kakinada)
Chirala, Prakasam District, Andhra Pradesh, India. Pin – 523157

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
- Labs (Hands-on Sessions) - Workshops/ Conferences/ Guest Lectures - Learning by ICT Tools - Field Exercises - Projects	- Poster Presentations - Paper Presentations - Internships - Assignments - Online Assessments - Seminars	- Quizzes - E-Learning facility through NPTEL, etc.

Experiential Learning:

- **Labs (Hands-on Sessions):**
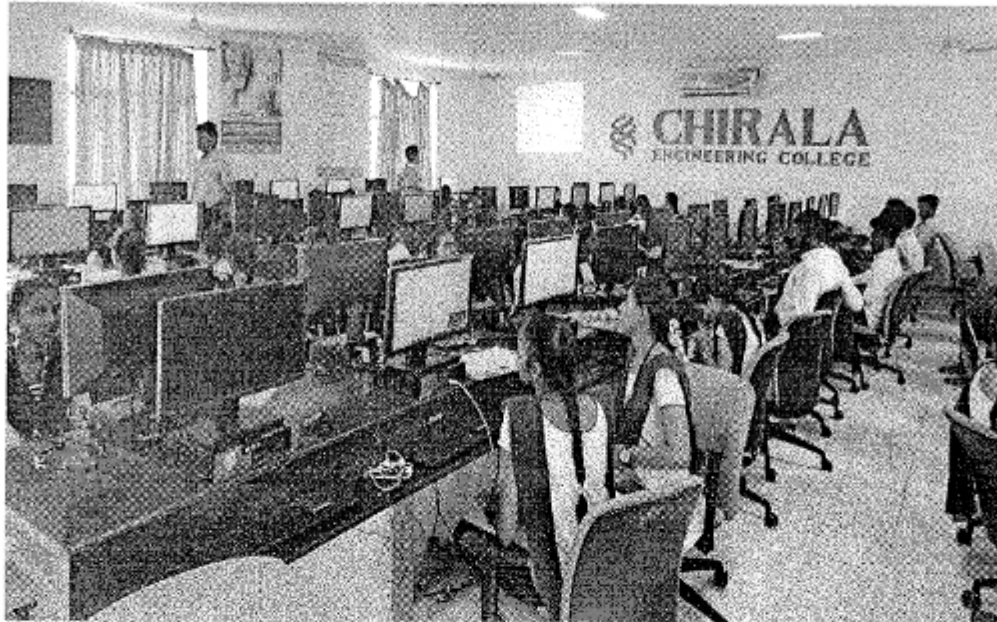
Students are encouraged to get practical exposure in labs by hands-on sessions and performing the exercises and experiments. The above picture is related to a Lab Session of 3rd Year CSE Students doing Big Data Analytics Lab.
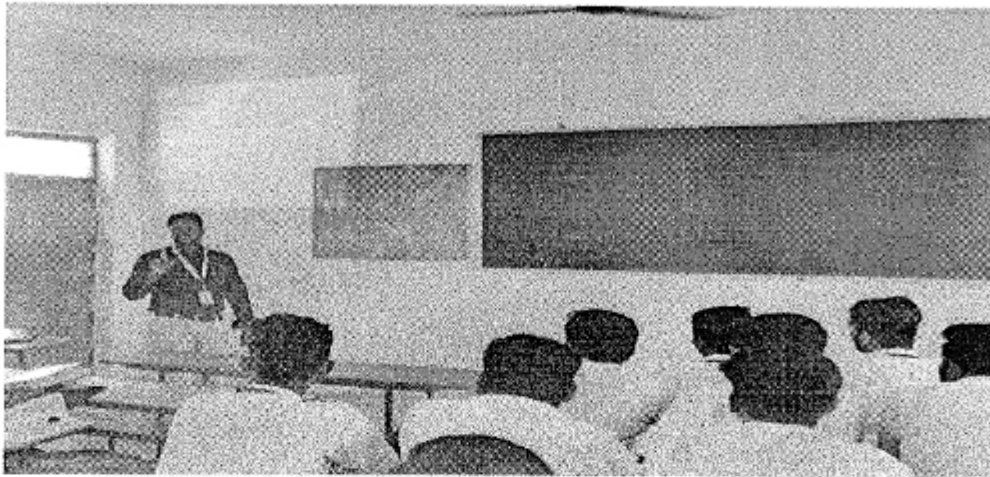
- **Workshops/ Conferences/ Guest Lectures:**
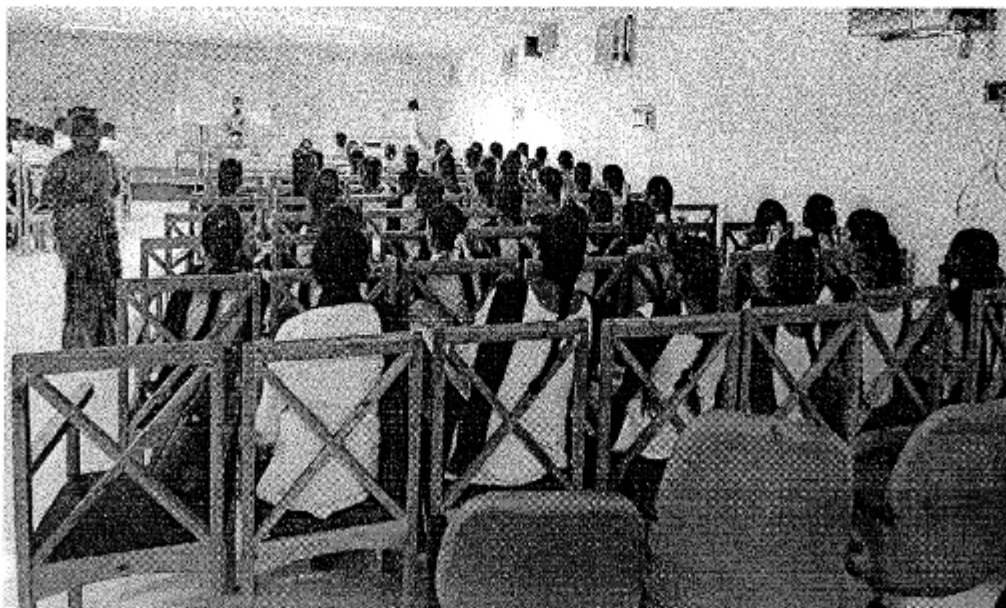
Apart from curriculum, we encourage our students to participate in the Workshops/ Conferences/ Guest Lectures. The above picture is on 19-04-2023 Build Applications using Python Workshop organized by CodeGnan IT Solutions Vijayawada.

- # Learning by ICT Tools:

Faculty Dealing JAVA Class using both Blackboard and Projector to Demonstrate Threading Concept, etc.
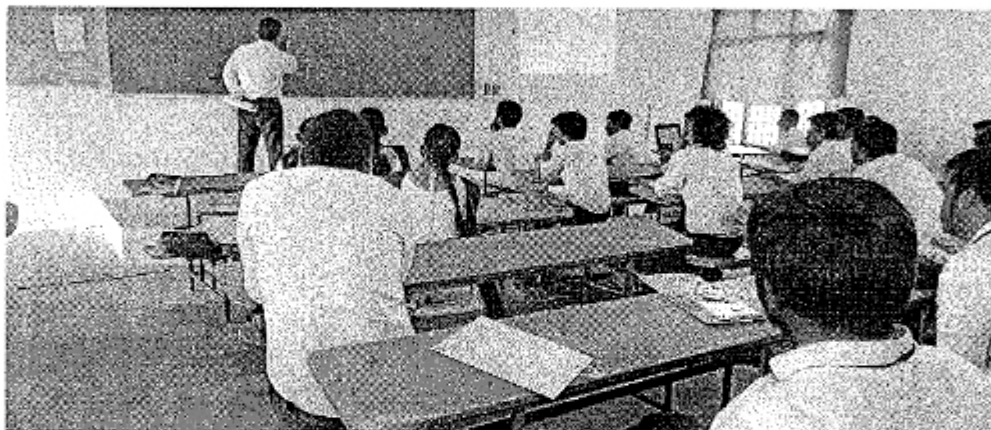
Faculty Dealing Design and Analysis of Algorithms Class using both Blackboard and Projector to Demonstrate Threading Concept, etc.
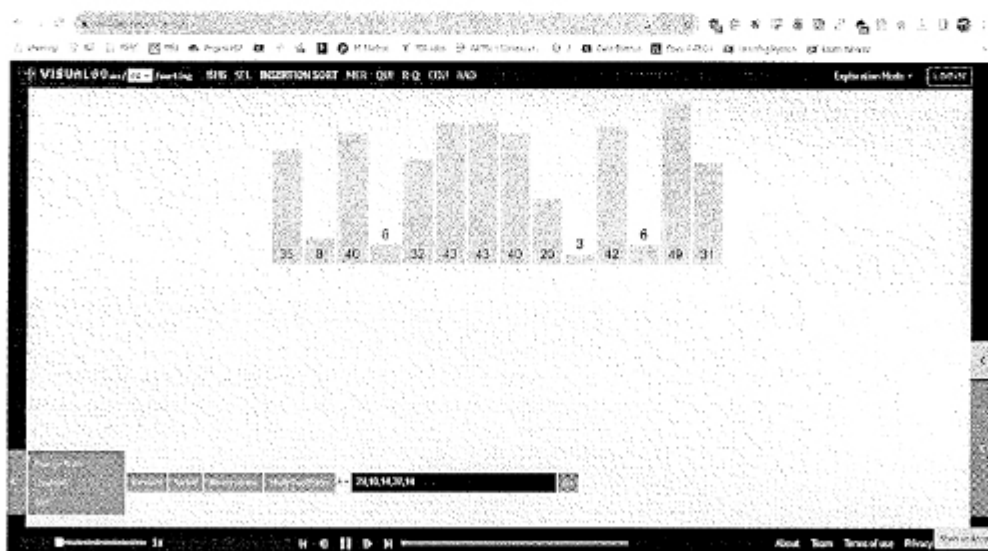
Faculty utilizes Movable Projectors to make students to visualize the concepts by the form of presentations, websites, animations etc. to provide easy understanding.

- **Field Exercises:**
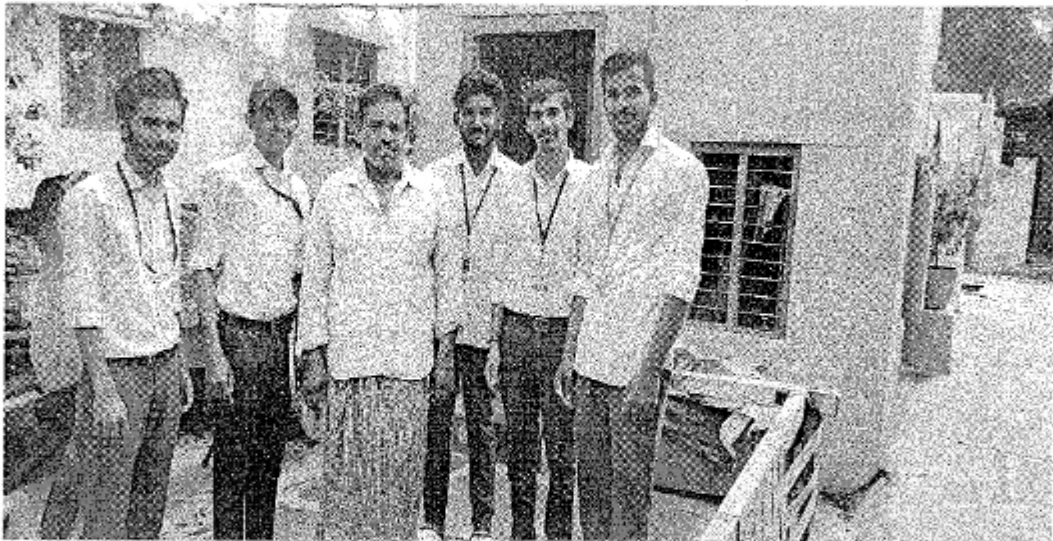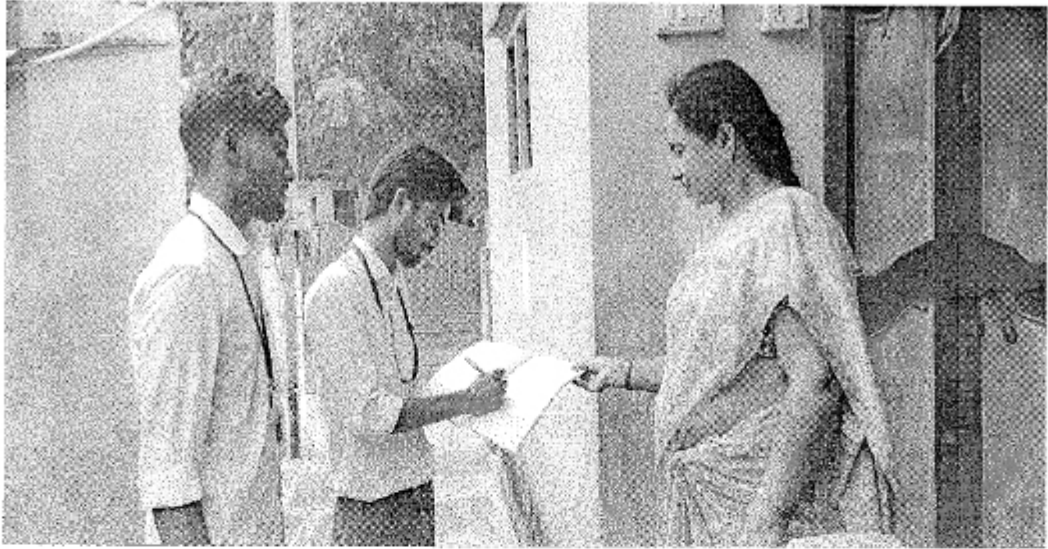
11-11-2022 - Students Participation in Community Service Projects, Surveys, Various other activities etc.

■ Projects:

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).

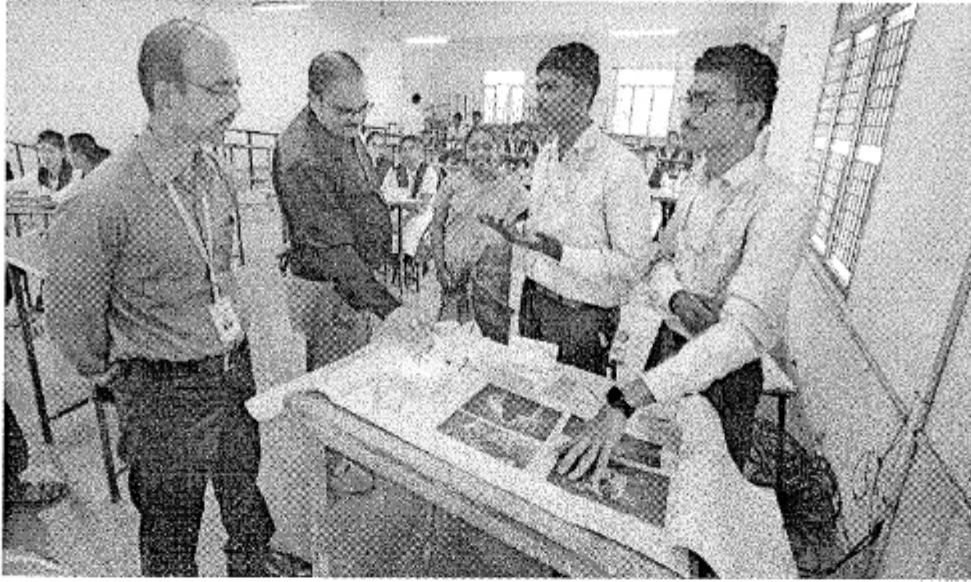## Participative Learning:

■ Poster Presentations:
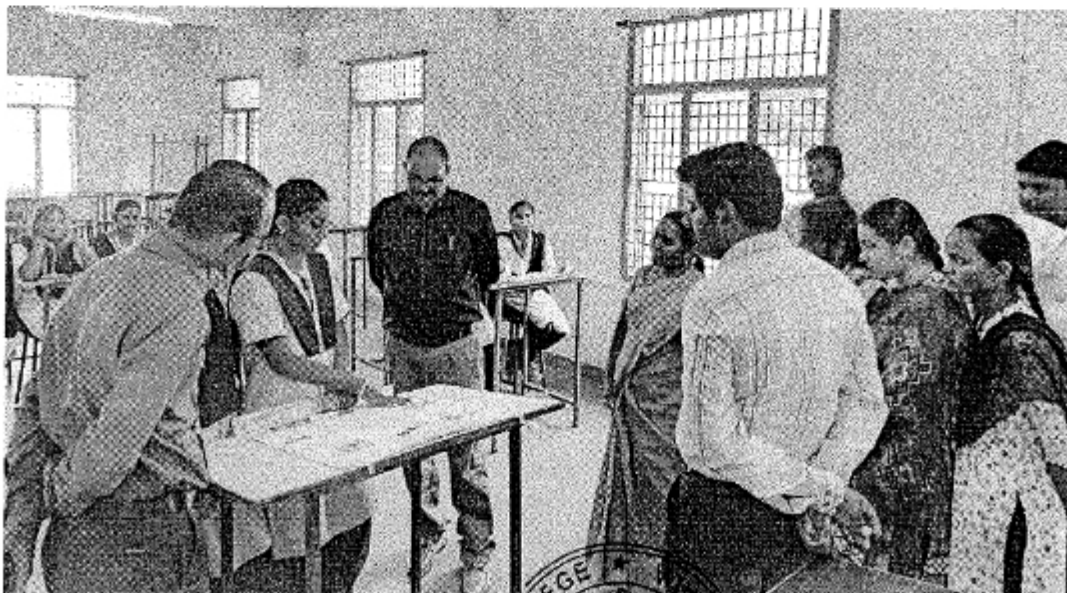
సమాజానికి ఉపయోగంగా సాంకేతికత ఉండాలి

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 ఎక్సిబిషన్ 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 ఆవిష్కరణల పట్ల ఆసక్తిని చూపాలని సూచించారు. అనంతరం వివిధ అంశాలలో విజేతలకు బహుమతులు ప్రధానోత్సవం చేశారు. ఈ కార్యక్రమంలో హెచ్వోడీలు డాక్టర్ షేక్ బషీర, డాక్టర్ శ్రీకాంత్, డాక్టర్ సౌజన్య, డాక్టర్ శ్రీనివాసరావు, ప్రకాష్ రాజ్, విద్యార్థులు, ఆచార్యులు, సహాయ ఆచార్యులు పాల్గొన్నారు.

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

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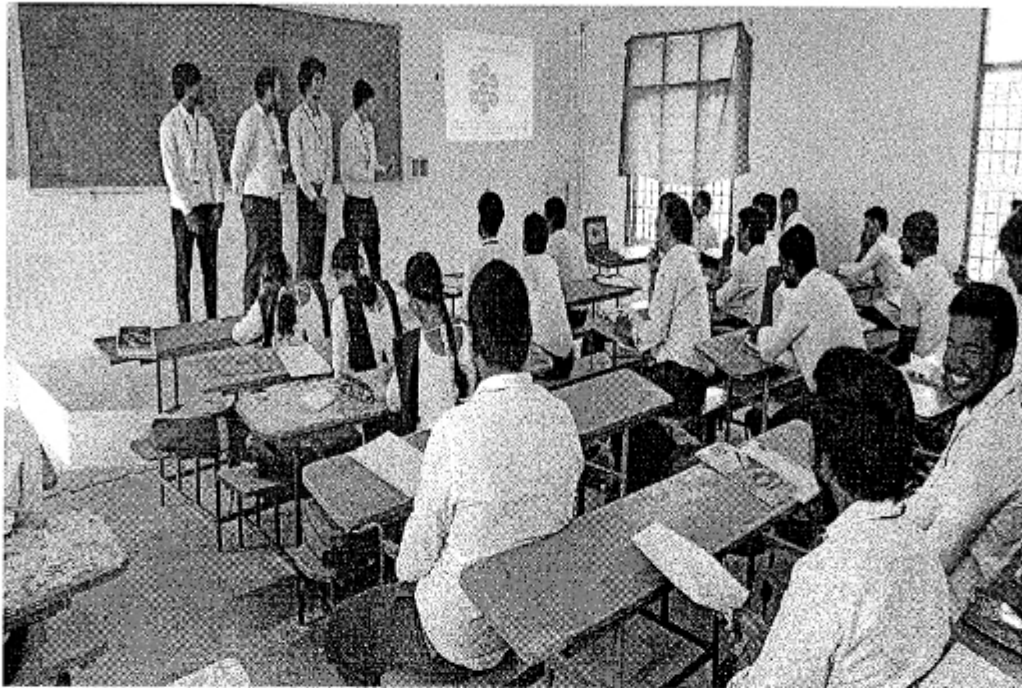
Occasionally we conduct Paper Presentation Sessions to unleash the potential of technology usage and creativity of the students (Students Paper Presentation on Internet of Things Concept).

▪ Internships:

INTERNSHIP
COMPLETION CERTIFICATE

OFFICIAL INTERNSHIP PARTNER:

E-Cell
IIT Hyderabad

PROUDLY PRESENTED TO:

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:

Assignments

Programming for Problem Solving using C

Department of Information Technology

R20 Regulation

I Year – I Semester

2022 – 2026 Batch

Date	Topic		
20/11/2022	UNIT-1 Assignment	1-5	(5) P.B.Sarala
9/12/2022	Unit-2 Assignment	6-8	(3) P.B.Sarala
31/1/23	Unit-3 Assignment	9-10	(5) P.B.Sarala
1/2/23	unit-4 Assignment	11-14	(5) P.B.Sarala
29/1/23	unit-5 Assignment	15-16	(5) P.B.Sarala

Total Marks Obtained: (5/5) P.B.Sarala

Certified by P.B.Sarala 1-5-23

ASSIGNMENT-1
UNIT-1

1. Write the importance of precedence and associativity. Write the table for operator precedence. Illustrate with an example.

Precedence:
* precedence is used to determine order of operators in an expression.
* In 'c' programming every operator had precedence.
* when there are two more than one operator in an expression is executed as high precedence operator also operator with least precedence at it is last.

Associativity:
* Associativity is used to determine order of operators in equal precedence.
* In 'c' programming language when a expression include multiple operators with equal precedence.

precedence	operator	operation meaning	associativity
2	+	unary plus	right to left
	-	unary minus	
	++	increment operation	
	--	decrement operation	
	&	address of operator (pointer)	
3	*	multiplication	left to right
	/	division	
	%	remainder	
4	+	addition	left to right
	-	subtraction	
5	<<	left shift	left to right
	>>	right shift	
6	<	less than	left to right
	<=	less than or equal	
	>	greater than	
	>=	greater than or equal	
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. $8+4*5|2-2/4+2*.5$
   $2+20|2-2|4+2*.5$
   $2+10-0.5+2$
   $12-0.5+2$
   $14-0.5$
   13.5

2. $6*2(2+1*2|3+6)+8*(8(4)$
   $6*2(2+0+6)+8*(8(4)$

4. $12|8+8*2$

5. $1+8+2$

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.
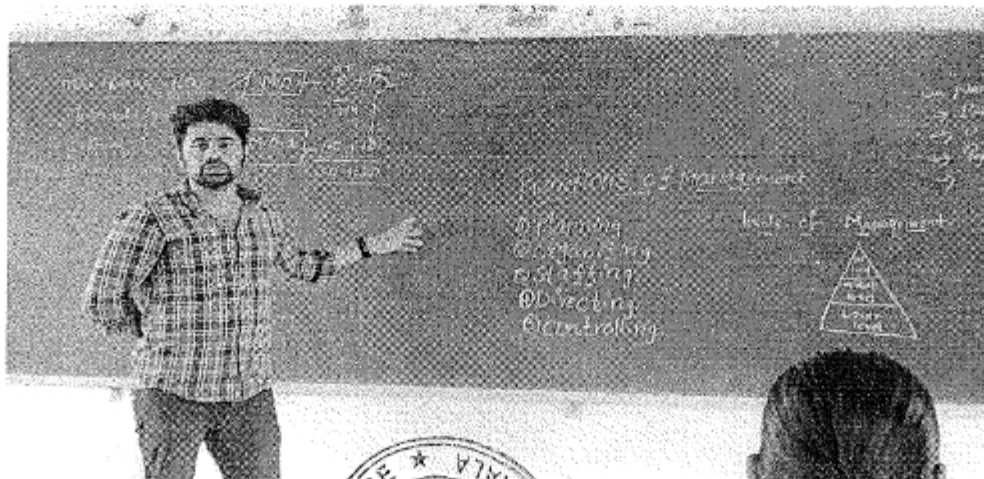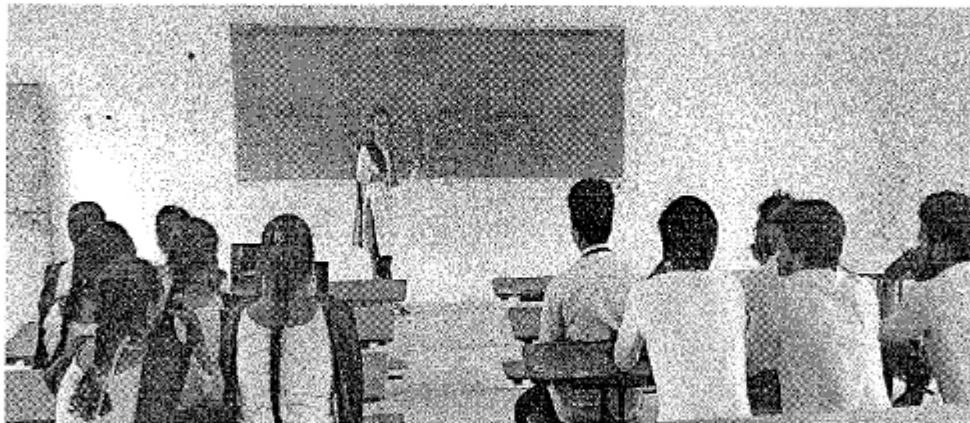
- **Online Assessments:**

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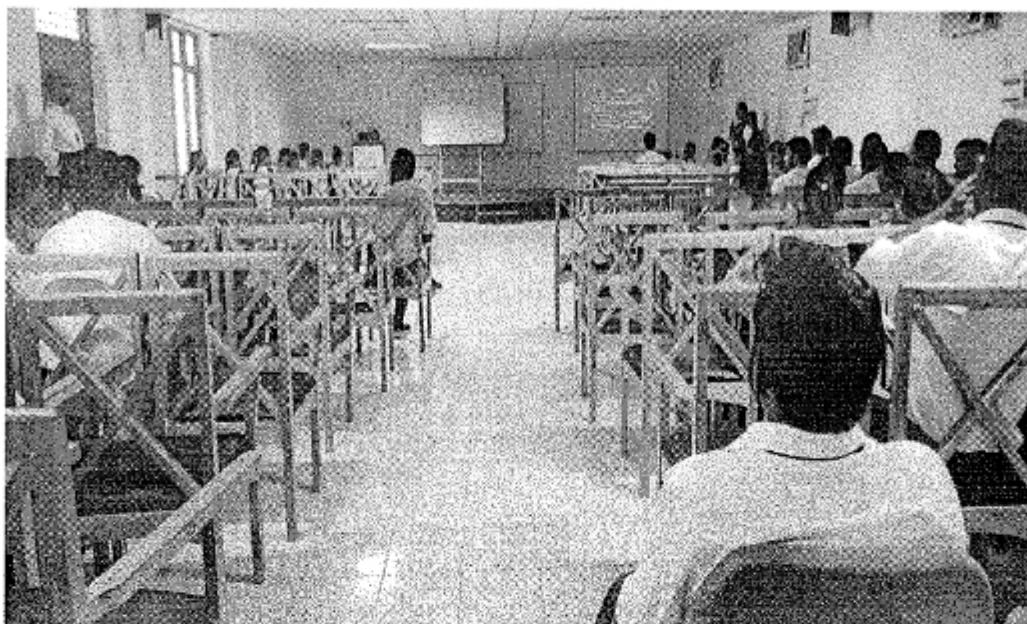
- **Seminars:**

Regularly we conduct Seminar 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:

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.

![Chirala Engineering College logo]

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## 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.
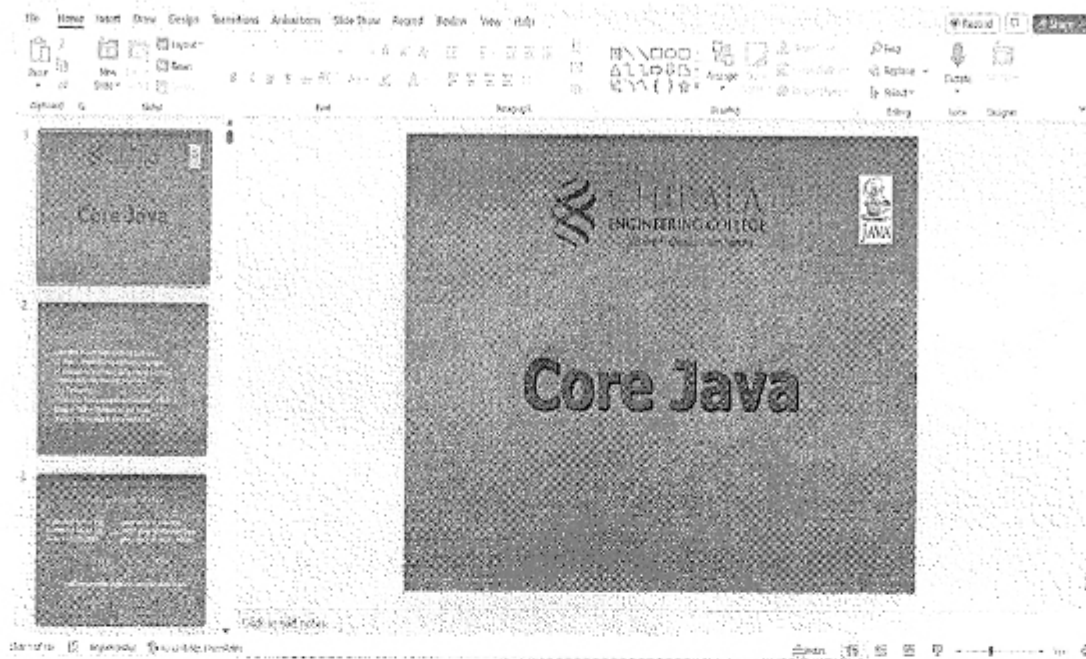
- **Usage of Projectors in Labs and Classes:**
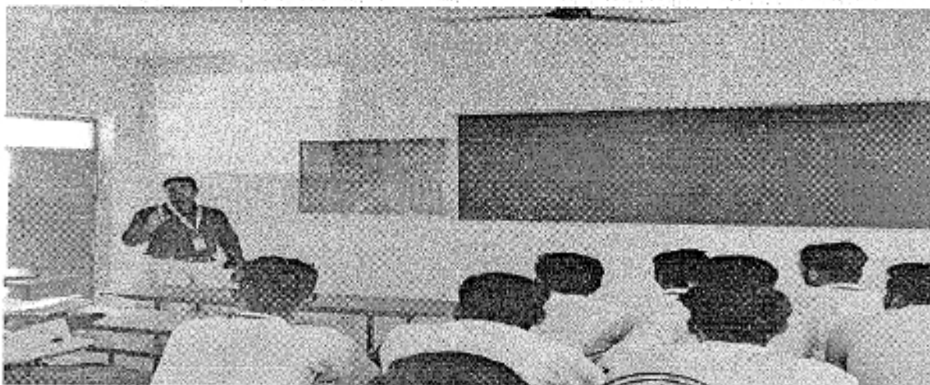
The faculty uses Movable Projectors in the Classrooms and Labs to Teach Classes in an Interactive and Visualizations Mode. In Classroom, Faculty Teaching threading Concept in Java and In Lab, Faculty Teaching Business Models by a Case Study.
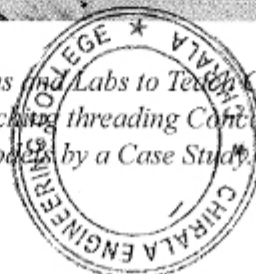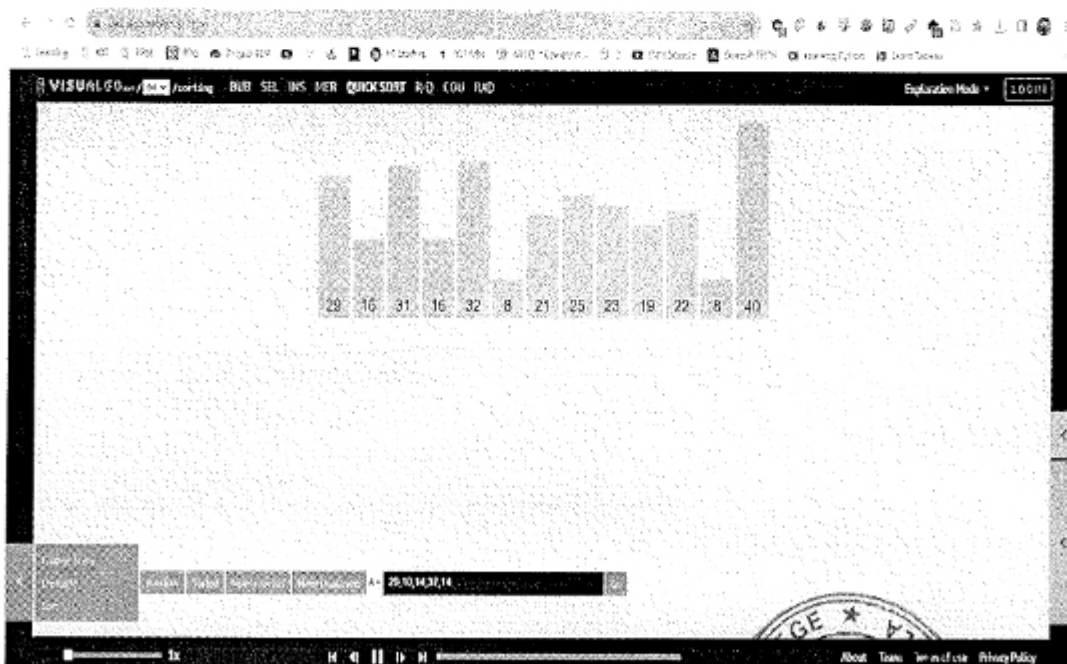
- **Usage of PowerPoint Presentation to teach in Labs and Classes:**

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

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:

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