



GVR&S COLLEGE OF ENGINEERING AND TECHNOLOGY

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Ganginenipuram, Budampadu, Etukuru (P.O), Guntur (Dt) – 522017, A.P, India.

E-mail: gvrscet@yahoo.com, website: www.gvrs.ac.in

2.3.1

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

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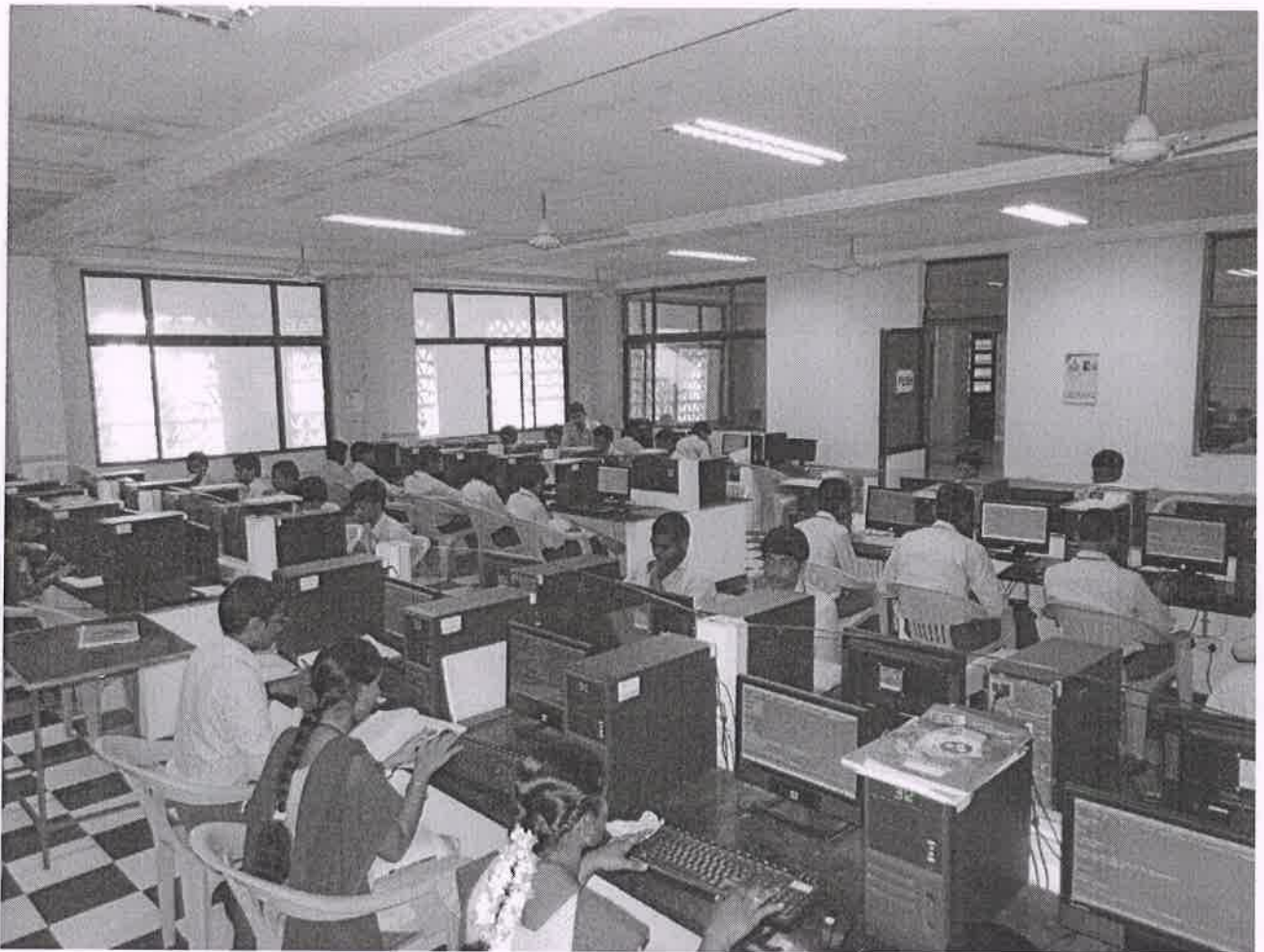
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Experiential Learning: The institution offers experiential learning for students with the following approaches:

1. **LABORATORY SESSIONS:** Laboratory sessions are conducted for better understanding of theoretical concepts



Students of CSE Department, I Year I Semester performing Lab Experiments in “PROGRAMMING FOR PROBLEM SOLVING USING C LAB”(A.Y20-21)


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Students of CSE Department, II Year I Semester performing Lab Experiments in “**OPERATING SYSTEMS LAB**”(A.Y21-22)

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Students of CSE Department, III Year I Semester performing Lab Experiments in
“COMPUTER NETWORKS LAB”(A.Y22-23)

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Students of CSE Department, I Year I Semester performing Lab Experiments in
“COMPUTER ENGINEERING WORKSHOP LAB”(A.Y 22-23)

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2. INTERNSHIPS: Internships are provided to the students.



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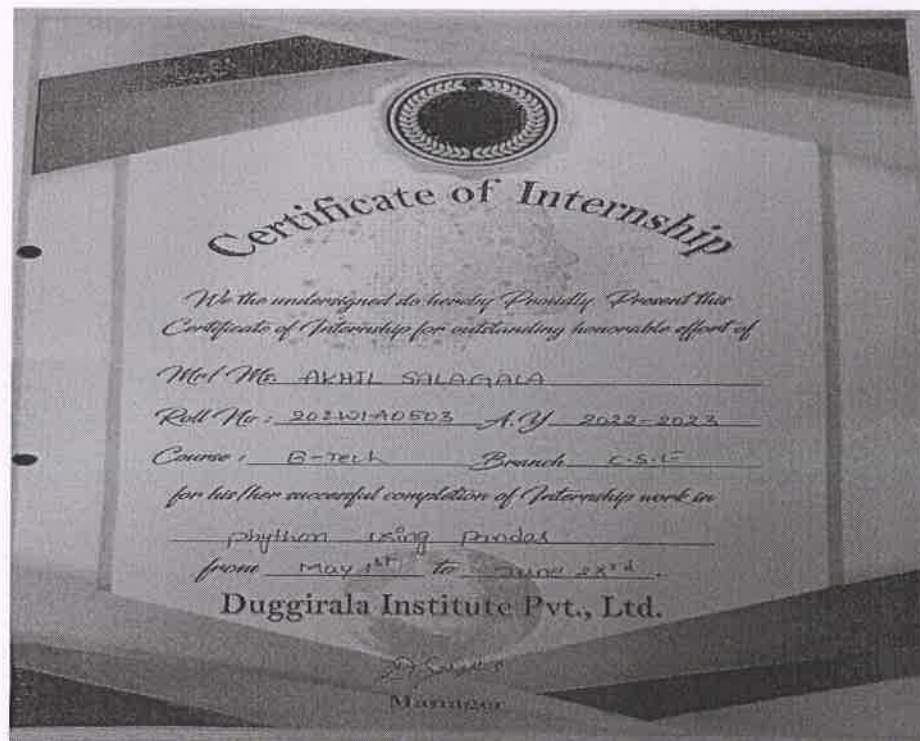
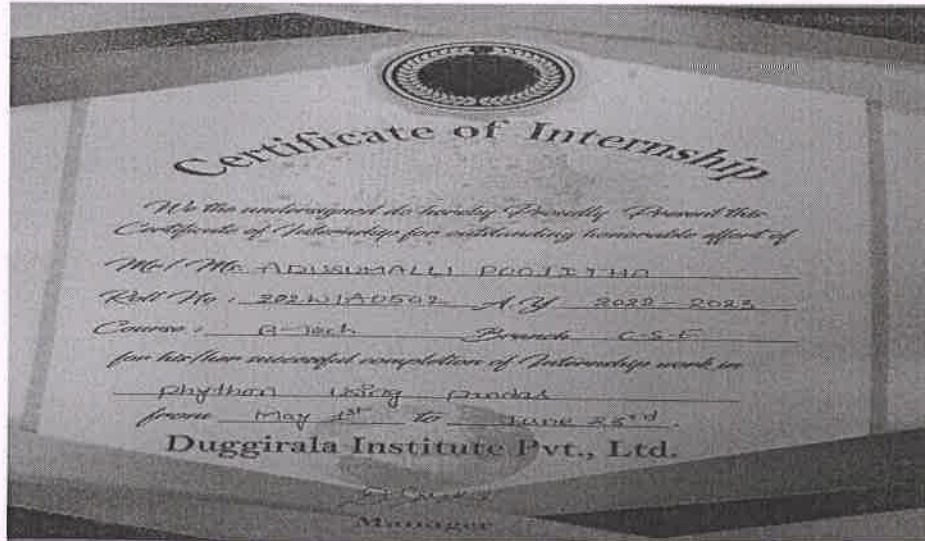


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3. **INDUSTRIAL STUDY VISITS & FIELD VISITS:** Organized to expose to current technologies and to provide an opportunity to learn practically through practically through interaction



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Students of CSE III-I Semester Visited KOLLPARA during Community Service Project (A.Y.2022-23)



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4. INDUSTRY DRIVEN COMPETITION:

Students encouraged to participate in competition to show their creative ideation and talent



Management, Principal & Faculty of GVR & S COLLEGE OF ENGINEERING AND TECHNOLOGY

Congratulate N Tharun Kumar for selecting in JNTUK Central Zone Inter collegiate Tournament cum selection


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5. INTEGRATED TOOLS: Students are encouraged to enroll in online courses



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

PAPA RAO CHALLAGUNDLA

for successfully completing the course

Cloud Computing

with a consolidated score of **56** %

Online Assignments	23.66/25	Proctored Exam	32.41/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **9640**

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS87S54370065

To validate the certificate



No. of credits recommended: 3 or 4

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NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
PAPA RAO CHALLAGUNDLA
for successfully completing the course

Computer Networks and Internet Protocol

with a consolidated score of **53** %

Online Assignments	19.85/25	Proctored Exam	33.16/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3082**

Jan-Apr 2023
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS48534320348

To validate the certificate



No. of credits recommended: 3 or 4


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NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

K. HARSHA VARDHAN

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **54** %

Online Assignments	23.69/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **25880**

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS83SB49801614

To verify the certificate



No. of credits recommended: 3 or 4

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NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

M. KRANTHI

for successfully completing the course

Cloud Computing

with a consolidated score of **45** %

Online Assignments	11.88/25	Proctored Exam	32.92/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **11454**

Jan-Apr 2023
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS42SS4913391

To validate the certificate



No. of credits recommended: 3 or 4

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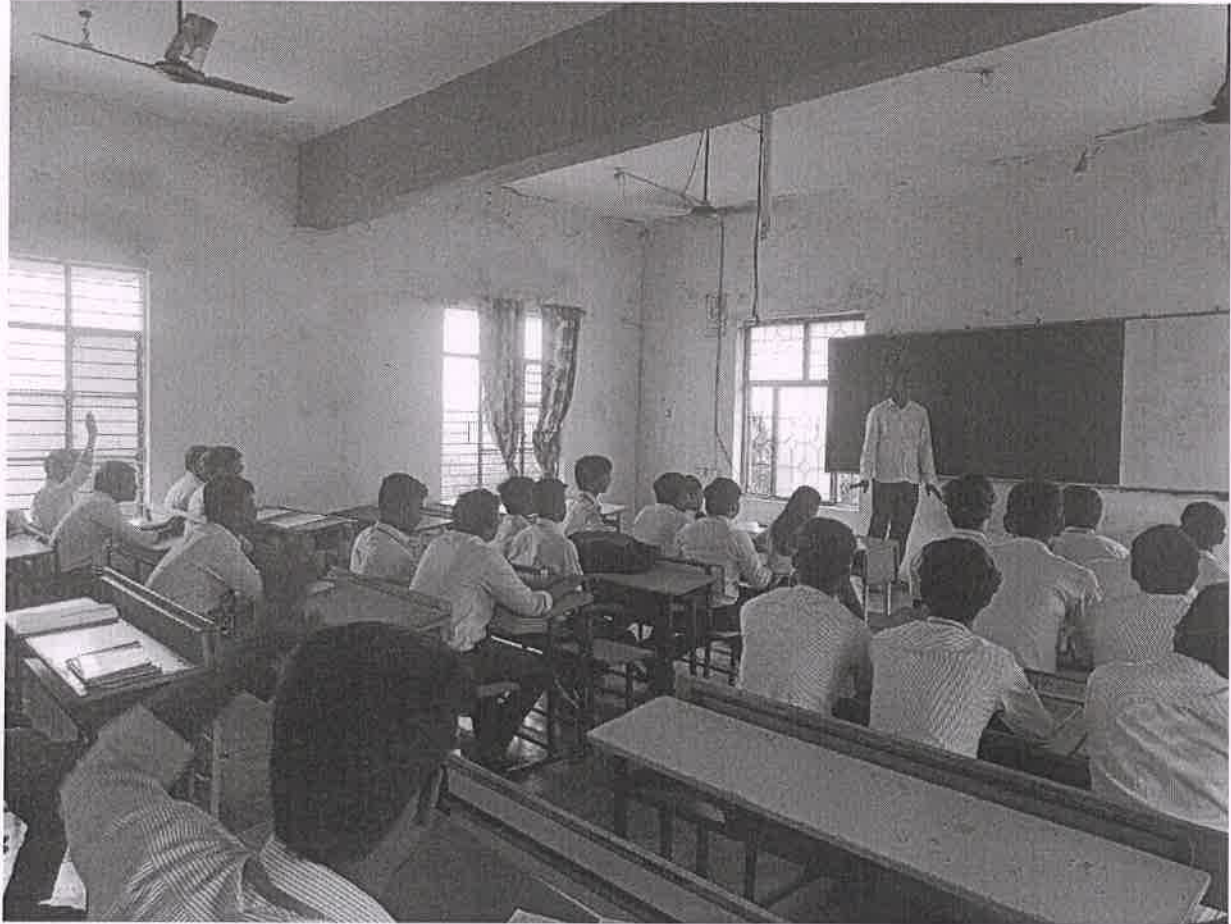
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6. **BRIDGE COURSE**: conducted bridge course for the students filling the gaps in academic year courses



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7. E-LEARNING: The institute allowed in access textbooks & references, course materials, Project Reports ,magazines ,printed journals & E-journals.



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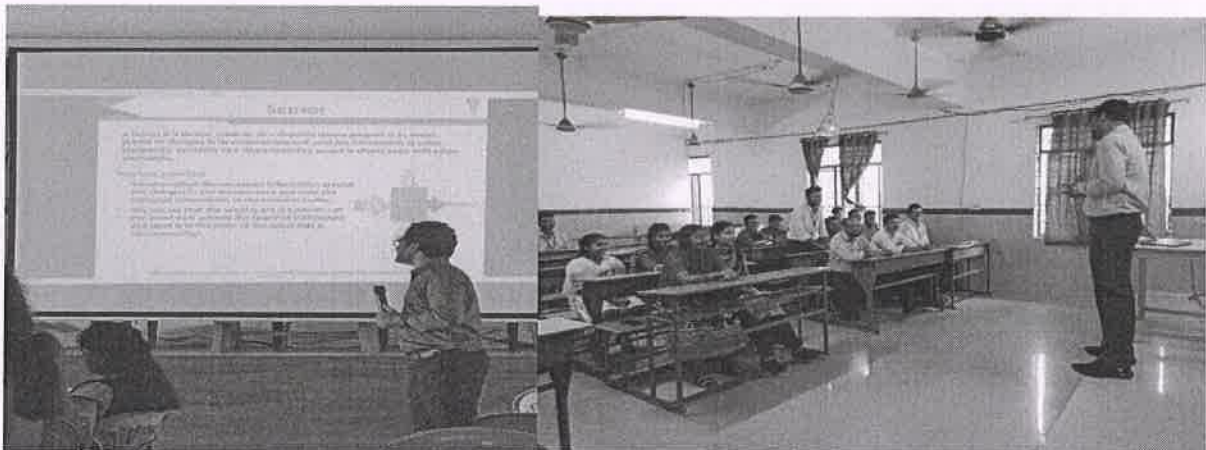
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8. WORKSHOPS, GUEST LECTURES AND SEMINARS: Students are encouraged to train on latest trends and innovative technologies by organizing workshops, guest lecturers and seminars



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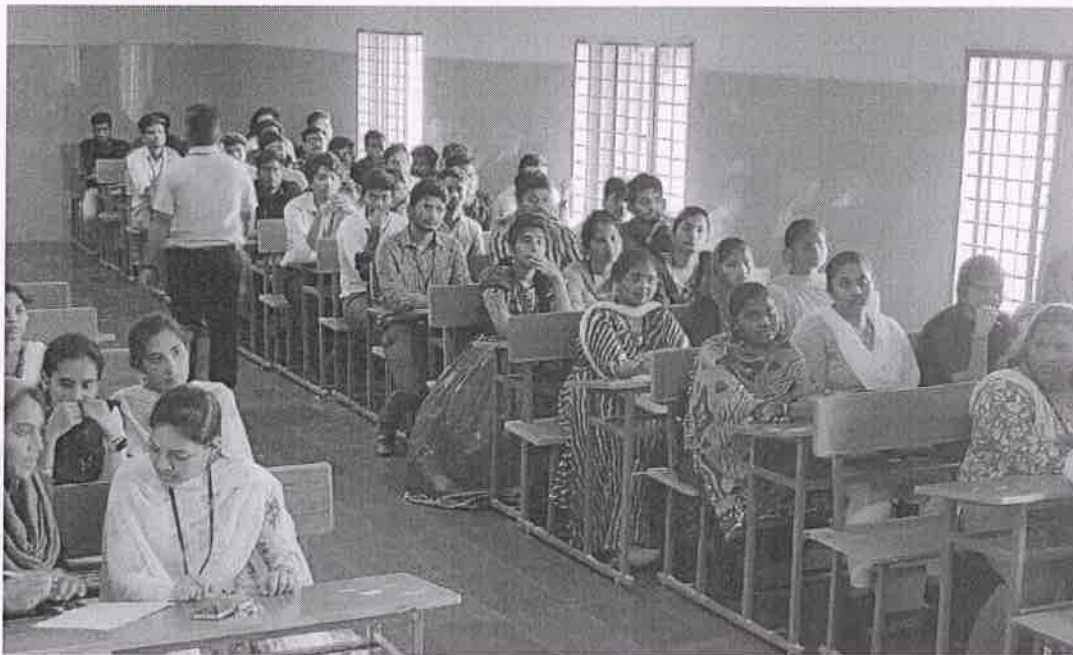
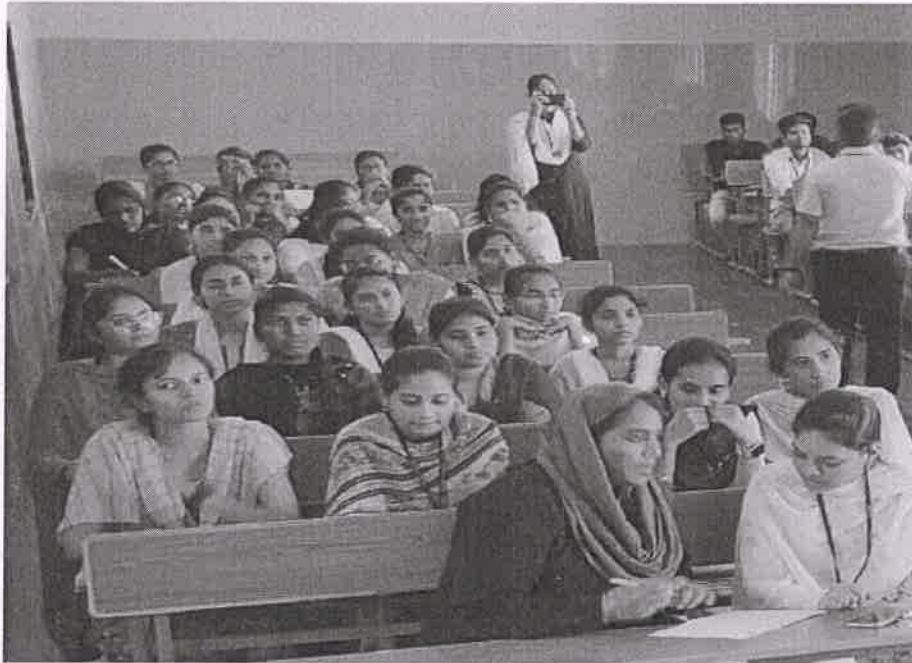


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9. GROUP DISCUSSION & DEBATES: Encouraging students to participate in debates and discussions.




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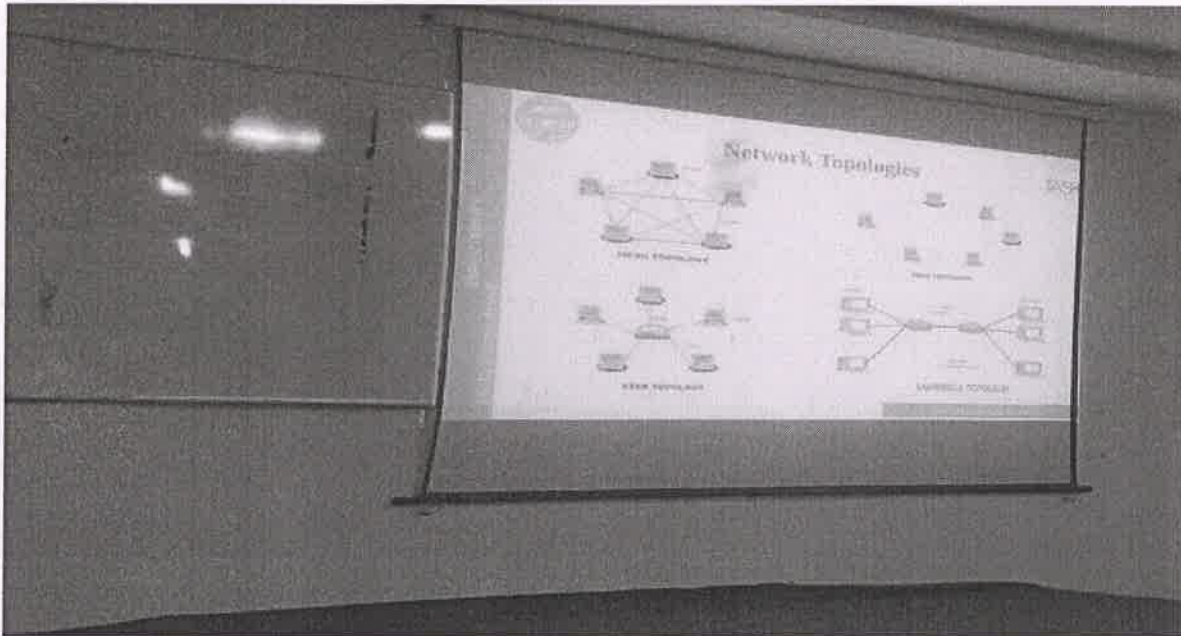
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10. TECHNICAL PRESENTATION: The students are encourage to participate in technical events to showcase their presentation skills through poster, paper and model presentation and to contribute articles to the college magazines.



Paper presentation on topic “Computer Networks” by III CSE Students



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11. ALUMNI INTERACTIONS:

Alumni meets are organized every year to build the strong relationship between students and alumni to share their experience and knowledge towards career building.




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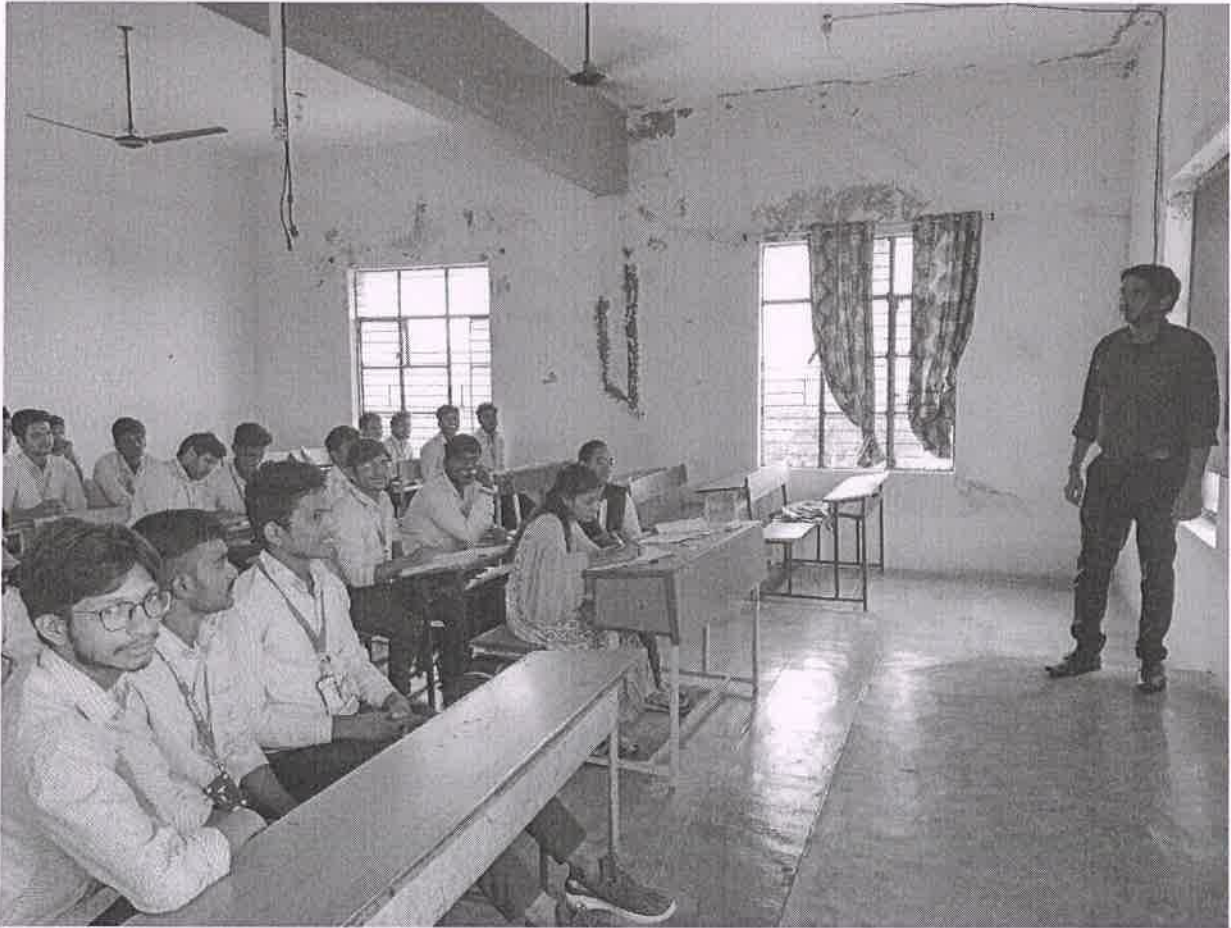
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12. THINK-PAIR & SHARE: This module has been implemented to help students come out with their innovative or unique ideas where students work together to solve a problem or answer a question about an assignment reading.



Students of IV year I semester ECE discussing a technical topic in a class room

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13. TECHNICAL CLUB ACTIVITIES: The institution has various professional societies like IEEE,IETE,IEI,CSI,SAE,ISIISO,where the students actively participate in activities.




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14. HANDS-ON TRAINING PROGRAMMES : In every year students undergo the training activities to explore in industry and advanced technologies



Students of CSE3RD year I Semester students training on artificial intelligence(A. Y2022-23)




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15. Sample copy of Innovative model development



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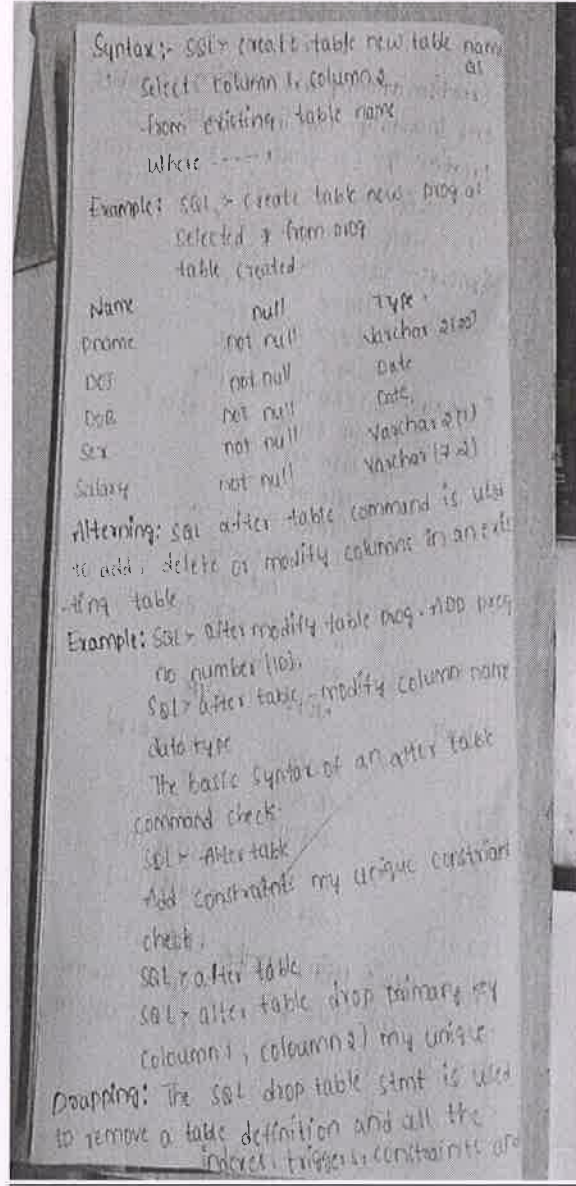
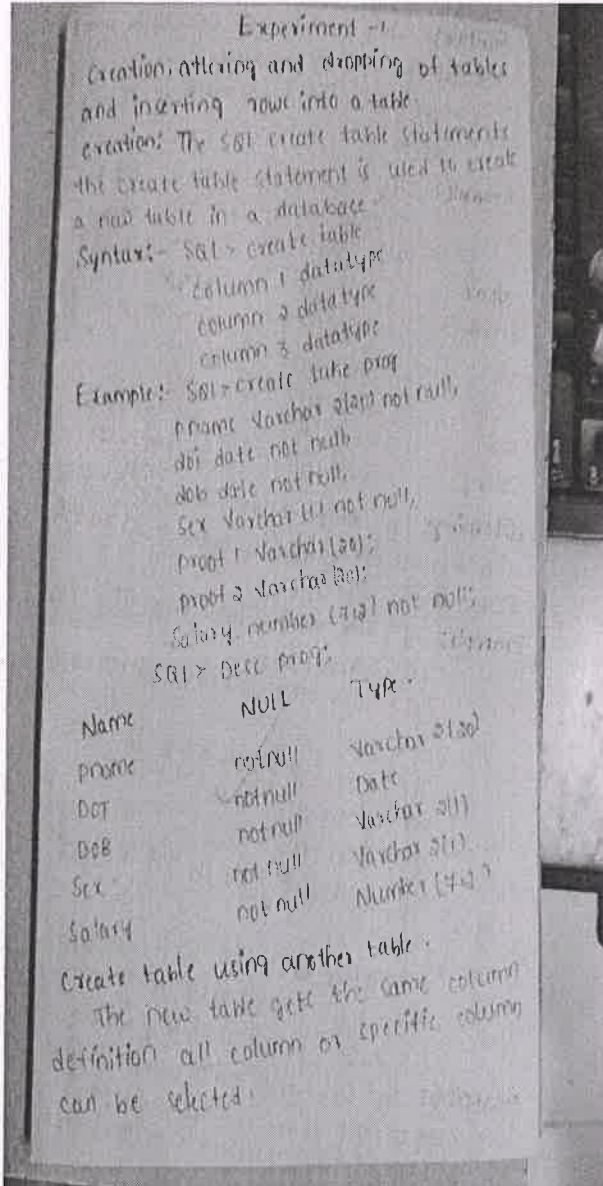
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16. Sample copy of Assignments & Quizzes




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Literals: Programming literals is a notation that represents a fixed value. It can be categorized as a string literal, boolean literal etc. Once it is defined cannot be changed.

→ 5 types

- * Integer
- * Floating point
- * Character
- * String
- * Boolean

Operators: In programming, operators are the special that tells the compiler to perform a special operation.

→ 8 types

- * Arithmetic
- * Logical
- * Assignment
- * Ternary
- * Relational
- * Bitwise
- * Unary
- * Shift

Separators: The separator in Java is also known as punctuators.

- Square brackets []: Array element represents single dimensional arrays
- Parenthesis () : to call function & passing the parameters
- Curly braces { } : Starting & Ending of code block.

→ comment (//) can be found at the end of the statements.

→ separates the statements

→ comments always use // specify the matter about program inside the java code. In this compiler, always comments are //

→ 2 types

- * Line oriented: begins with a pair of // writing clothes (//)
- * Block oriented: begin with /* & continue with // inside /*/

② Demonstrate bitwise operators using in java language.

i) Bitwise operators: Bitwise operators are used to perform the manipulation of individual bits of a number. they can be used with any integer type (char, short, int etc). they are used when performing update and binary operations of the binary related files.

Now let's look at the each of the bitwise operators in java.

1. Bitwise AND (&): This operator is a binary operator denoted by &. It returns bit by bit operation values, i.e. if either of the bits is 0, it gives 0, else it shows 1.
2. Bitwise OR (|): This operator is a binary operator, denoted by |. It returns bit by bit AND of input value, i.e. if both bits are 1, it gives 1, else it shows 0.


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Binary
is bit by
operating
shows

It is a
ways the
if/else
is it

(b)

operation

in
small

rent(b)

operator

small

operator	Description
&	Bitwise AND
	Bitwise OR
^	Bitwise Exclusive OR
~	Bitwise Complement
>>	Shift Right
<<	Shift Left
>>>	Shift right with zero fill

Example program

```

class operators {
public static void main (String [] args)
{
int a = 5;
int b = 7;
System.out.println ("a & b = " + (a & b));
System.out.println ("a | b = " + (a | b));
System.out.println ("a ^ b = " + (a ^ b));
System.out.println ("~a = " + (~a));
a & b = b;
System.out.println ("a = " + a);
}
}

```

Output:

```

a & b = 5
a | b = 7
a ^ b = 2
~a = -6
a = 5

```

3. Bitwise XOR (^): This operator is a binary operator denoted by '^'. It compares bit by bit XOR of input values, if the corresponding bits are different, it gives 1, else it gives 0.

4. Bitwise Complement (~): This operator is a unary operator, denoted by '~'. It returns the one's complement representation of the if value i.e. with all bits inverted, which means it makes every 0 to 1, and every 1 to 0.

Bitwise OR ()	Bitwise AND (&)
a = 7 = 0111 (In Binary)	a = 5 = 0101
b = 7 = 0111 (In Binary)	a = 7 = 0111
Bitwise OR operation of 5 and 7	Bitwise AND operation of 5 & 7
$\begin{array}{r} 0101 \\ 0111 \\ \hline 0111 = 7 \end{array}$ (In decimal)	$\begin{array}{r} 0101 \\ 0111 \\ \hline 0101 = 5 \text{ in decimal} \end{array}$
Bitwise XOR (^)	Bitwise Complement (~)
a = 5 = 0101	a = 5 = 0101
b = 7 = 0111	b = 7 = 0111
Bitwise XOR operation of 5 and 7	Bitwise ~ operation of 5 and 7
$\begin{array}{r} 0101 \\ 0111 \\ \hline 0010 = 2 \end{array}$	$\begin{array}{r} 0101 \\ 0111 \\ \hline 1010 = 10 \end{array}$ (In decimal)

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1. The liability extending to the personal property of the trader called

- A. Full liability
- B. Un limited liability
- C. Limited liability
- D. Partial liability



2. The assets is not related to fixed asset

- A. Buildings
- B. Cash in bank and hand
- C. Machinery
- D. Land

3. Which accounting assumption assumes that an enterprise will continue

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3. Which accounting assumption assumes that an enterprise will continue in operation long enough to carry out its existing objectives and commitments?


- A. Monetary unit assumption
- B. Time period assumption
- C. Economic entity assumption
- D. Going concern assumption

4. A rate at which $N.P.V = 0$, then the rate is called _____

- A. Average Rate of Return
- B. Minimum Rate of Return
- C. Internal Rate of Return
- D. Required Rate of Return

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D. Required Rate of Return

5. For the profitable projects, the profitability index is:



- A. Equal to 1
- B. Equal to 0
- C. Less than 1
- D. Greater than 1

6. Under Capital budgeting, only _____ Proposals are considered

- A. Short-term
- B. Very short-term
- C. Long-term
- D. Mid-term

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7. The company which ends the words with Pvt Ltd is called

- A. Public limited company
- B. Private limited company
- C. Joint stock company
- D. Partnership

8. Working capital is a measure of.

- A. Profitability
- B. Consistency
- C. Liquidity
- D. Solvency

9. Which of the following is most sensitive to the business cycle

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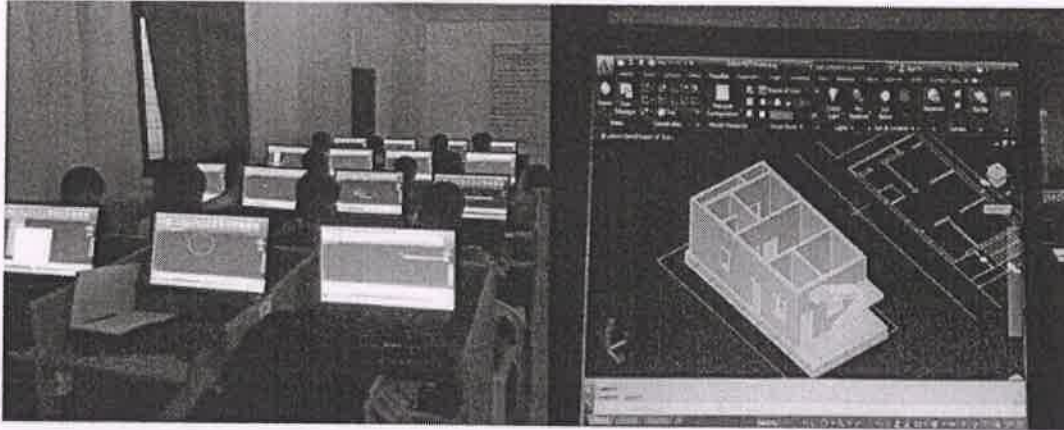
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17. Sample copy of Virtual labs:: Used to provide remote-access to labs in various disciplines can avail the various tools for learning, including additional web-resources, video lectures, animated demonstrations and self evaluation



Students of CIVIL III Year II Semester are Designing Building plan using “Computer Aided Design” using Virtual Labs.(A.Y 2019-2020)



Students of CSE II Year I Semester are implementing “Data Structures” programs using Virtual Labs.(A.Y 2018-2019)


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