



TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE & Affiliated to JNTU Hyderabad)

PEDDAPALLY-505172, Dist. Peddapalli. (T.S)

Ph: 08728-224347, Fax: 08728-223959, Mobile No. 8522954369, E-mail: officetcek@gmail.com

Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

2.3.1

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

Trinity Engineering and Technology College 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, TECHNOVATION 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. 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:

Each department conducts add-on programs to support students in their experiential learning. The institution imparts the following experiential learning practices to enhance creativity and cognitive levels of the students –

- Laboratory Sessions are conducted with content beyond syllabus experiments.
- Summer Internship -Students get hands on training while working in the company.
- Add-on Courses on latest technologies with NPTEL, ICT-IITK, SAP, Course era etc.
- Project development on latest technologies by students where they showcase their working model in the technical fest.
- Industrial Visits to engage them in experiential learning while visiting the organization.
- Certification Courses (Value Added Courses) by the market experts such as Microsoft/ Google/ NSE etc. to develop their expertise
- Participation in simulated events such as simulated stock exchanges or hackathons where they acquire experience of working on some real-life model.

2. Participatory Learning:

- In this type of learning, students participate in various activities such as seminar, group discussion, workshops, 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
- Annual Tech Fest – It is organized every year for engineering students where selected projects are displayed at the larger platform. □
- Management Fest- This is organized every year by the management students in which
- students from different colleges participate and learn from each other.


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- Annual cultural program – This is organized every year for the students of the college to give a vent to their creativity.
- Regular Quizzes- Quizzes are organized for student participation at intra or inter college level.
- Seminar Presentation – Students develop technical skills while presenting papers in seminars.
- Presentation and publishing of papers in conferences and journals - The objective is to give them exposure to learn and imbibe new skills.
- MOOC Programs (NPTEL, ICT-IITK, SAP, COURSERA etc.)

3. Problem-solving methods:

Departments encourage students to acquire and develop problem-solving skills. For this, college organizes expert lectures on various topics, motivate students to join MOOC courses, participate in various inter-college and intra-college technical fests and other competitions such as:

- In-house summer training with project development
- Regular Assignments based on problems
- Mini Project development
- Regular Quizzes
- Case studies Discussion
- Class presentations
- Debates
- Participation in Inter college events

H. Z. Gaur

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Sno	Descriptive	Link to the relevant Documnet
<u>EXPERIMENTAL LEARNING</u>		
1	Internship / In-Plant Training	
2	Mini Project / Project	
3	Industrial Visit	
4	Guest Lecture and Workshop	
<u>PARTICIPATIVE LEARNING</u>		
1	NPTEL- National Programme on Technology Enhanced Learning	
2	Club Activities	
3	Student Participants in Internal and External Events	
4	Activity Based Learning	
<u>PROBLEM SOLVING METHODOLOGIES</u>		
1	Tutorial	
<u>ICT TOOLS</u>		
1	Lesson Plan with ICT Tools	
2	Multimedia Teaching	
3	Mobile Learning	

M. Green
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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

INTERNSHIP / IN-PLANT TRAINING

A handwritten signature in green ink, appearing to read 'M. Ganesha'.

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+91 9899788308

Scho@verse Educare Pvt. Ltd.,
B-601, Unitech Business Zone,
Nirvana Country, South City 2,
Gurgaon, India - 122018

Date - 12/06/2023

TO WHOM IT MAY CONCERN

This is to certify that Dedeeepya Pindi, a student of Trinity College Of Engineering & Technology, was an outstanding performer of Internshala's Campus Ambassador Program - Internshala Student Partner (ISP) 34 edition during the period of April 2023 to May 2023. Dedeeepya ranked 33 out of 25,097 students selected from different colleges across India.

During this period, Dedeeepya promoted Internshala and its products successfully and showed genuine sincerity and willingness to learn while taking on new assignments and challenges.

At Internshala, we consider ISPs, our biggest strength when it comes to educating college students across the world about the power of internships and online trainings. We believe Dedeeepya would be a great addition to any organization, adding value to fellow colleagues by participating in discussions, and providing an unique perspective on a wide variety of issues.

We appreciate the efforts put in, and wish Dedeeepya all the best for future endeavors.

Kind Regards,

CEO - Internshala

Contact at: isp-hiring@internshala.com

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INTERNSHALA STUDENT PARTNER


Business Development Certificate

This is To Certify That

Dedeepya Pindi

from Trinity College Of Engineering & Technology, participated in "Training Contest - Career ki Guarantee" in the Internshala Student Partner Program. Completion of this task is a testament of Dedeepya's good Communication and Marketing skills.

We appreciate the efforts put in and wish the ISP all the best for future endeavours.


Vice President - Marketing, Internshala
(Designation)

Date of certification: 21/09/2023


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namani viay btech 3rd year cse who has been doing miniproject as desktop support engineer at cache technology



CACHE TECHNOLOGY

B1/B2, Gumidelli Towers, Begumpet, Hyderabad - 500 018
Landline : 4849 8890, 4849 8891, 4849 8892, 27707412
Fax : 040-2770 7410
Email : service@cacheperipherals.com
Website : www.cacheperipherals.com
GSTIN No : 36AAAF6089R1ZR

LETTER OF APPOINTMENT

To
Mr. N.Vinay
S/o. N.Shankaraiiah
H.No.11-4-475/1, Tharakarama Nagar,
B incline Colony,
Peddapalli-505211 (T.S)

We are in receipt of your application for the post of **Desktop Support Engineer**. We are glad to inform you that our organization **M/s CACHE TECHNOLOGY** has found you eligible for the profile described.

You are appointed as the **Desktop Support Engineer** in **NTPC Ltd- RAMAGUNDAM**. And the date of joining will be from day i.e. 27.05.2023. We hope to have a long successful professional relationship with you and wish you all the very best.

Yours Sincerely

For CACHE TECHNOLOGY


D. Jyothi Raj
Manager Service



CC: Human Resource Department



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Mini Project / Project

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TELANGANA STATE POWER GENERATION CORPORATION LIMITED

RAMAGUNDAM THERMAL STATION: RAMAGUNDAM.

From
The Superintending Engineer,
Operation & Maintenance,
RTS.B,Ramagundam .

To
The Principal,
Trinity College of Engineering and Technology
Peddapalli, Karimnagar.

Sir,

Sub:- Industrial Oriented Mini project Work-Regarding

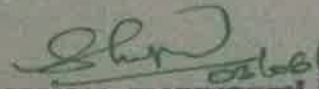
Ref:- SE/O&M/RTS-B/DE/AT&P/DM(HR)/Jr.Asst/F.MINI PROJECT WORK/
D.NO.290/2023, DT.15.05.2023.

With reference to the above it is to inform that the following students of "TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY", Peddapalli, Karimnagar". has carried out a Industrial Oriented Mini project Work on "MAINTANANCE OF HT MOTORS" at RTS.B, Station, Ramagundam during the period 15/05/2023 to 29/05/2023 under the guidance & supervision of Sri D.SHANKARAIH, Divisional Engineer/EM.

ASMA BEGUM

(21UD5A0214)

Their conduct during this period is found satisfactory.


DIVISIONAL ENGINEER
ELECTRICAL Maintenance
RTS.B,RAMAGUNDAM
TS Genco
Ramagundam


SUPERINTENDING ENGINEER/O&M
RTS.B,RAMAGUNDAM.
23/5/2023

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M. T. Prasad
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M. T. Ganesan

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M. Zayed

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2.3 Teaching- Learning Process

Industrial Visit

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list of students who visited industrials

A	B	C	D	E	F	G
LIST OF THE FACULTY MEMBERS						
1	Dr.Kousalya	9182117078				
2	Swathi Jilla	9618966426				
LIST OF THE STUDENTS						
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COLLEGE NAME: TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLI

INDUSTRIAL VISIT STUDENTS NAME LIST

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31		DR.MANI GANESH		94403273103
32		DR.V ASHOK KUMAR		7396903383
33		J SWATHI		9618966426
34		ANJANEYULU		9493448863

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M. T. Javed

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NRSC Outreach Facility Jeedimetla, Hyderabad outreach@nrscl.gov.in

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Industrial visit on 13-December-2022

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Dec 14, 2022, 12:36

M. Zaver

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

NPTEL- National Programme on Technology Enhanced Learning

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students who got participation certificates from NPTEL



PARTICIPATION CERTIFICATE

This certificate is presented to Eris Devendra
of Trinity College Of Engineering And Technology -Peddapalli
for successfully completing 10 Hours of Online Soft Skills Training on Interview Readiness
from 19/09/2022 to 24/09/2022

DATE 02/11/2022


ANDREW THANGARAJ
Professor,
Department of Electrical Engineering, IIT Madras
Coordinator, NPTEL



PARTICIPATION CERTIFICATE

This certificate is presented to Guglioth Akhila
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DATE 02/11/2022


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PARTICIPATION CERTIFICATE

This certificate is presented to Jalibhee
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DATE 02/11/2022


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DATE 02/11/2022


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DATE 02/11/2022


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PARTICIPATION CERTIFICATE

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Club Activities


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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Student Participants in Internal and External Events

A handwritten signature in green ink, appearing to read 'M. Ganesha'.

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KAMALA INSTITUTE OF TECHNOLOGY & SCIENCE

(Approved by AICTE, New Delhi, and Affiliated to JNTU, Hyderabad, Accredited with 'A++' Grade by NAAC and by NBA(CSE, ECE & EEE))

Singapur, Huzurabad, Karimnagar, Telangana - 505468

Department of Computer Science & Engineering

4th National Conference on

"FUTURISTIC AREAS IN COMPUTER ENGINEERING AND TECHNOLOGY"

CERTIFICATE

Certificate Id:
FACET-23-CNS03



Dr./Mr./Ms. **Thodeti keerthana** has presented a paper titled "The Power Of Phishing Attacks: A Review On Hacker'S Demeanour At Different Timestamps "in 4th National Conference on "FUTURISTIC AREAS IN COMPUTER ENGINEERING AND TECHNOLOGY", organized by Department of Computer Science & Engineering, Kamala Institute of Technology & Science on 5th & 6th May, 2023


Co-Convener


Convener


Secretary, CSI-Hyd


Principal



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Department of Computer Science & Engineering

4th National Conference on

"FUTURISTIC AREAS IN COMPUTER ENGINEERING AND TECHNOLOGY"

CERTIFICATE

Certificate Id:
FACET-23-CNS03



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Co-Convener


Convener


Secretary, CSI-Hyd


Principal


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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Activity Based Learning

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Activity Based Learning

Department of Computer science and Engineering

sample events

Subject : DATA STRUCTURES
Class : II CSE /AIML
Topic : LINKED LIST
Methodology : BRAINSTORMING
Type : GROUP ACTIVITY

ABTRACT OF ACTIVITY

The II year CSE / AIML splited into 12 groups . Each group has 4 members. Among the group one team leader has to selected. The topic was given to all the students in group. They searched and learned about the topic In the varlous sources.

In the blackboard the instructor drawn and explain about the topic various questions and answers are solved and also linked list diagrams with algorithms explained by every group

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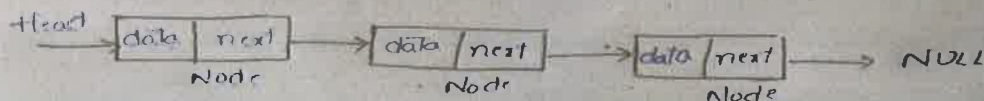
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⇒ Linked List :-

A Linked List is the most sought-after data structure when it comes to handling dynamic data elements. A linked list consists of a data element known as a node. And each node consists of two fields: one field has data, and in the second field, the node has an address that keeps a reference to the next node.



⇒ There are four key types of Linked List

- Singly linked lists
- Doubly linked lists
- Circular linked lists
- Circular doubly linked lists

⇒ A singly linked list consumes less memory as compared to the doubly linked list.

⇒ The doubly linked list consumes more memory as compared to the singly linked list.

⇒ Singly linked list is less efficient. It is preferred when we need to save memory and searching is not required as pointer or single index is stored.

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Tutorial

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Tutorial Based Learning Department of science and Humanities sample events

Subject : MA3151 Matrices and Calculas
Class : I CSE /AIML
Topic : Toatal derivative
Methodology : Training
Type : Class Tutorial

Abstract of the Tutorial

The tutorial class has been conducted the 1 year CSE ,AIML ,ECE,EEE students . The question was given to all the students in the class. They solved the question in the class rooms. Three faculty members have been helped the students to clear their doubts.

All the students are trained by the faculty to complete the total derviative problems quickly.

② If $g(x,y) = \psi(u,v)$, where $u = x^2 - y^2$ and $v = 2xy$. Then
Prove that $\frac{\partial^2 g}{\partial x^2} + \frac{\partial^2 g}{\partial y^2} = 4(x^2 + y^2) \left[\frac{\partial^2 \psi}{\partial u^2} + \frac{\partial^2 \psi}{\partial v^2} \right]$

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$\frac{\partial u}{\partial x} = 2x - 0 = 2x$; $\frac{\partial u}{\partial y} = 0 - 2y = -2y$; $\frac{\partial v}{\partial x} = 2y(1) = 2y$; $\frac{\partial v}{\partial y} = 2x(1) = 2x$

$\textcircled{1} \Rightarrow \frac{\partial q}{\partial x} = \frac{\partial \psi}{\partial u} (2x) + \frac{\partial \psi}{\partial v} (2y)$; $\textcircled{2} \Rightarrow \frac{\partial q}{\partial y} = \frac{\partial \psi}{\partial u} (-2y) + \frac{\partial \psi}{\partial v} (2x)$

$\frac{\partial q}{\partial x} = 2x \frac{\partial \psi}{\partial u} + 2y \frac{\partial \psi}{\partial v} \text{ --- } \textcircled{3}$; $\frac{\partial q}{\partial y} = -2y \frac{\partial \psi}{\partial u} + 2x \frac{\partial \psi}{\partial v} \text{ --- } \textcircled{4}$

$\frac{\partial^2 q}{\partial x^2} = \frac{\partial}{\partial x} \left(\frac{\partial q}{\partial x} \right)$
 $= \left(2x \frac{\partial}{\partial u} + 2y \frac{\partial}{\partial v} \right) \left(2x \frac{\partial \psi}{\partial u} + 2y \frac{\partial \psi}{\partial v} \right) \text{ (by } \textcircled{3})$

$\frac{\partial^2 q}{\partial x^2} = 4x^2 \frac{\partial^2 \psi}{\partial u^2} + 4xy \frac{\partial^2 \psi}{\partial u \partial v} + 4xy \frac{\partial^2 \psi}{\partial v \partial u} + 4y^2 \frac{\partial^2 \psi}{\partial v^2} \text{ --- } \textcircled{5}$

$\frac{\partial^2 q}{\partial y^2} = \frac{\partial}{\partial y} \left(\frac{\partial q}{\partial y} \right)$
 $= \left(-2y \frac{\partial}{\partial u} + 2x \frac{\partial}{\partial v} \right) \left(-2y \frac{\partial \psi}{\partial u} + 2x \frac{\partial \psi}{\partial v} \right) \text{ (by } \textcircled{4})$

$\frac{\partial^2 q}{\partial y^2} = 4y^2 \frac{\partial^2 \psi}{\partial u^2} - 4xy \frac{\partial^2 \psi}{\partial u \partial v} - 4xy \frac{\partial^2 \psi}{\partial v \partial u} + 4x^2 \frac{\partial^2 \psi}{\partial v^2} \text{ --- } \textcircled{6}$

$\textcircled{5} + \textcircled{6} \quad \frac{\partial^2 q}{\partial x^2} + \frac{\partial^2 q}{\partial y^2} = 4x^2 \frac{\partial^2 \psi}{\partial u^2} + 4xy \frac{\partial^2 \psi}{\partial u \partial v} + 4xy \frac{\partial^2 \psi}{\partial v \partial u} + 4y^2 \frac{\partial^2 \psi}{\partial v^2} +$
 $4y^2 \frac{\partial^2 \psi}{\partial u^2} - 4xy \frac{\partial^2 \psi}{\partial u \partial v} - 4xy \frac{\partial^2 \psi}{\partial v \partial u} + 4x^2 \frac{\partial^2 \psi}{\partial v^2}$
 $= \frac{\partial^2 \psi}{\partial u^2} (4x^2 + 4y^2) + \frac{\partial^2 \psi}{\partial v^2} (4x^2 + 4y^2)$
 $\frac{\partial^2 q}{\partial x^2} + \frac{\partial^2 q}{\partial y^2} = (4x^2 + 4y^2) \left[\frac{\partial^2 \psi}{\partial u^2} + \frac{\partial^2 \psi}{\partial v^2} \right]$
 Hence Proved

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similarly

$$\frac{\partial f_2}{\partial y} = ny^2 r^{n-2} + nr$$

$$\frac{\partial f_3}{\partial z} = nz^2 r^{n-2} + nr$$

$$\text{Now } \operatorname{div}(r^n \vec{r}) = \operatorname{div} \vec{F}$$

$$= \frac{\partial f_1}{\partial x} + \frac{\partial f_2}{\partial y} + \frac{\partial f_3}{\partial z}$$

$$= nx^2 r^{n-2} + nr + ny^2 r^{n-2} + nr + nz^2 r^{n-2} + nr$$

$$= 3r^n + nr^{n-2}(x^2 + y^2 + z^2)$$

$$= 3r^n + nr^{n-2}(r^2)$$

$$= 3r^n + nr^{n-2+2}$$

$$= 3r^n + nr^n$$

$$\operatorname{div}(r^n \vec{r}) = r^n(3+n)$$

if $r^n \vec{r}$ is a solenoid then

$$\operatorname{div} r^n \vec{r} = 0$$

$$r^n(3+n) = 0$$

$$n+3 = 0$$

$$\boxed{n = -3}$$

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Lesson Plan with ICT Tools

A handwritten signature in green ink, appearing to read 'M. Zaver', is written above the printed name of the Principal.

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Multimedia Teaching

M. Ganes

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Criterion 2- Teaching- Learning and Evaluation

2.3 Teaching- Learning Process

Mobile Learning


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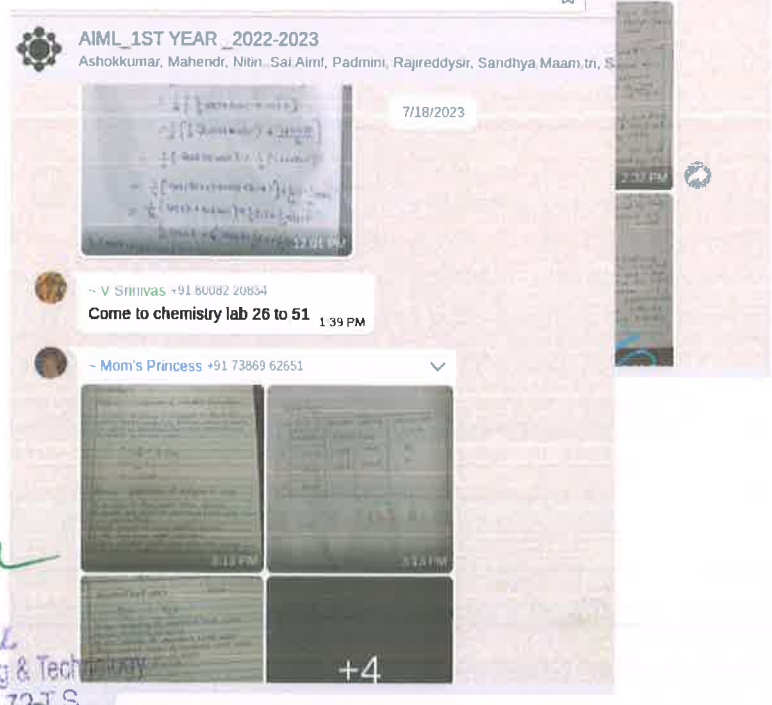
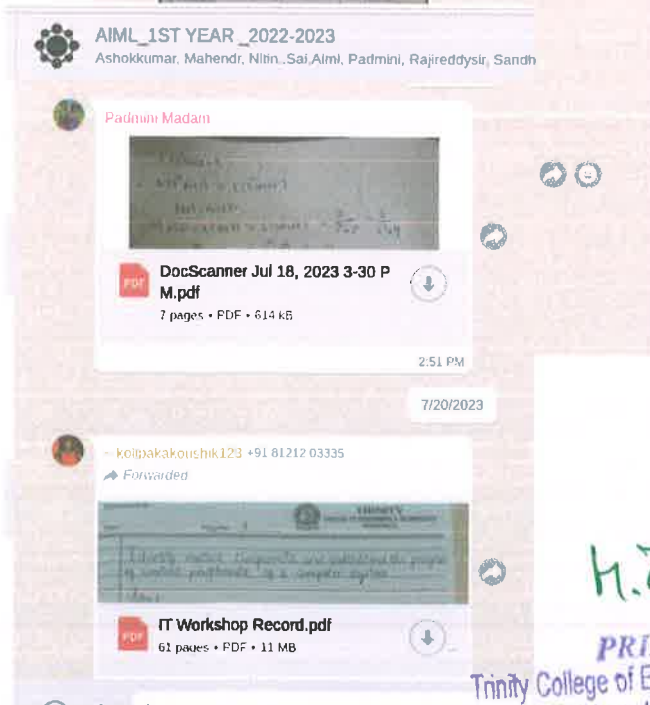
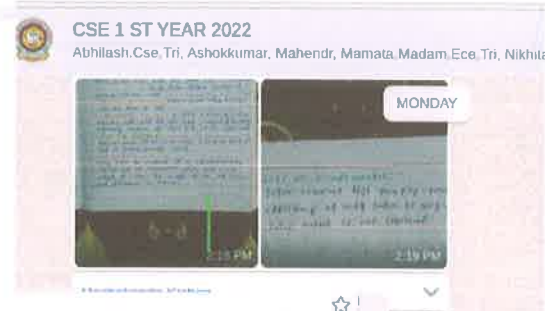
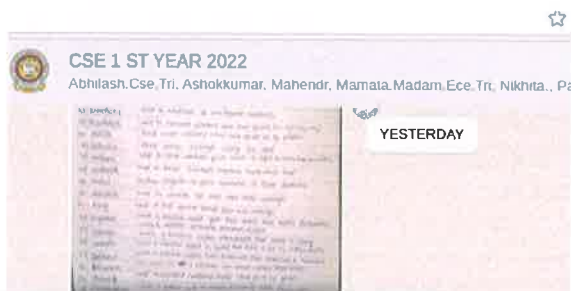
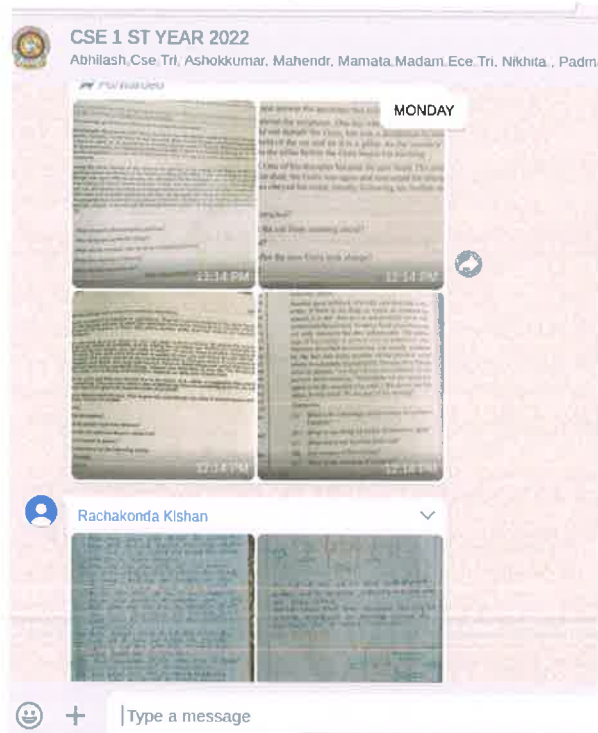
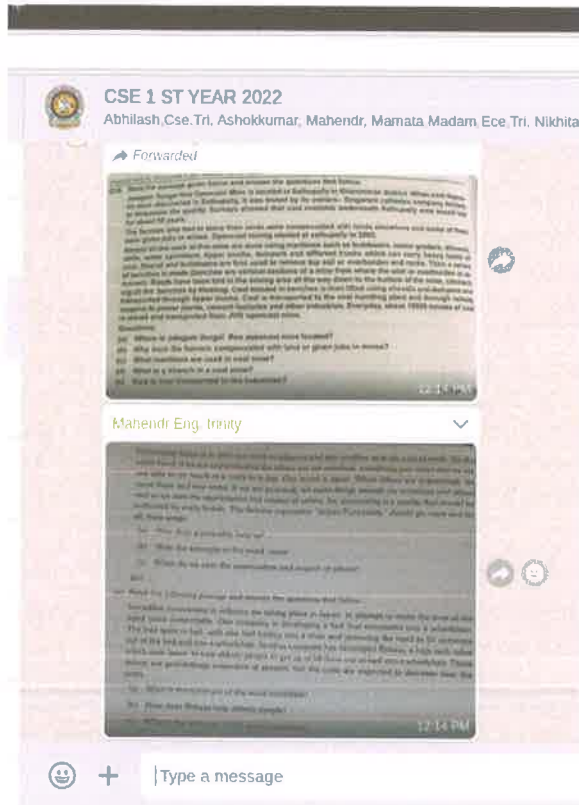


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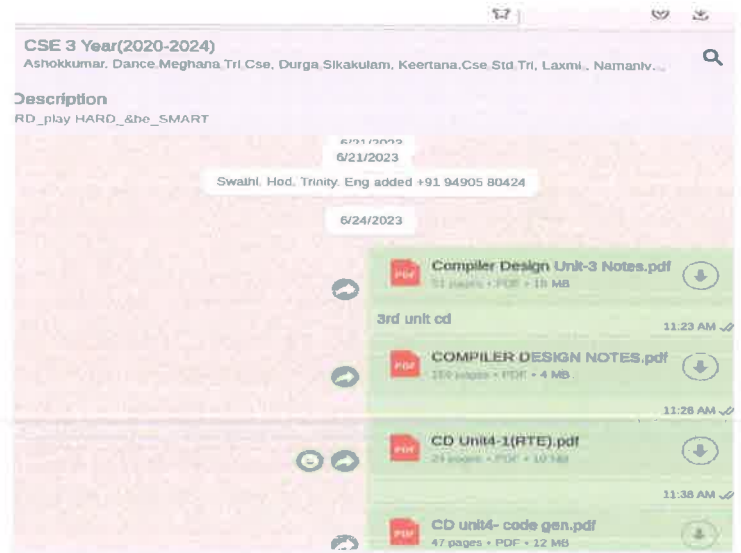
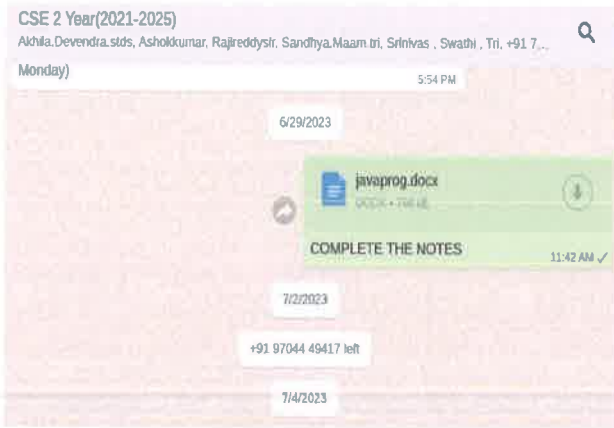


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