

## **Course File**

***Subject Title/Subject Cod :Disaster Management/8TT6-60.2***

Semester : VIII Year : IV

Name of the Faculty: Nishit Jain

E-mail id: nishit.jain@technonjr.org

### **Class Schedule**

**Total Number of Lectures: 42**

#### **i) Course Objective**

**To introduce the basic components and phases of a compiler like parsing ,code generation etc**

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# Techno India NJR Institute of Technology

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## VISSION & MISSION OF INSTITUTE

### Vision

Empowering student with recent and emerging technologies to create innovative technical leaders capable of contributing to industrial and societal needs for betterment of mankind across the globe.

### Mission

**M1:** To provide dynamic learning environment to students by providing constant exposure to latest technologies by linking closely with the industries.

**M2:** To establish effective interface with industry to obtain live problems to enhance critical thinking and problem solving skills among students and consultancy projects for faculty.

**M3:** To provide avenues and opportunities to faculty for domain specific trainings and qualification upgradation.

**M4:** To develop ethical leaders with strong communication skills.

## VISION & MISSION OF DEPARTMENT

### Department Vision

To be among top five well known department of Computer Science and Engineering in the state of Rajasthan in placing the students at premier industry.

### Department Mission

**M1:** To equip students with ability to be innovative and excellence to face the challenges in the digital world.

**M2:** To prepare students with high quality employability skills catering to current trends in industries, problem solving skills, innovative pursuits and ready to face challenges in the domain and allied disciplines.

**M3:** To provide ambience for entrepreneurship and start-ups through incubation center among students.

**M4:** To encourage continuous faculty training on industry-based Development, and Innovation.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

**Technical Proficiency** Graduates will have a strong foundation in core concepts, tools, and technologies relevant to their discipline.

**Career Development** Graduate will be capable of pursuing diverse career paths in field of Computer Science & Engineering with proficiency in software development/ pursue higher education and or become entrepreneurs.

**Problem-Solving** Graduates will have a strong math foundation so that they will be proficient problem solvers, capable of identifying, analyzing, and solving complex technical problems using critical thinking and creative approaches.

**Professional Attitude** Graduates will be sensitive to societal and professional environment, possess strong communication skills and will be skilled in working collaboratively within diverse teams adhering to ethical standards and professional practices.

**Learning Environment** To create a learning environment that ensures graduates continue learning throughout their careers, effortlessly adopting new technologies to stay innovative in their chosen fields and remain effective contributors in their chosen field.

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## **PROGRAM SPECIFIC OUTCOMES (PSO's)**

**PSO1:** Students will be able to design, develop, test, debug, deploy, analyze , troubleshoot, maintain, manage, and ensure security during the complete product lifecycle.

**PSO2:** Student will be able to apply software engineering/ information system development skills to solve problems across diverse domains.

**PSO3:** Students will be well-prepared to initiate and oversee innovative startups within their respective sectors.

## **PROGRAMME OUTCOMES (POs)**

**A student will develop:**

### **PROGRAMME OUTCOMES (POs)**

**A student will develop:**

**PO01. ENGINEERING KNOWLEDGE:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO02. PROBLEM ANALYSIS:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO03. DESIGN/ DEVELOPMENT OF SOLUTION:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO04. CONDUCTION OF INVESTIGATION OF COMPLEX PROBLEMS:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO05. MODERN TOOL USAGE:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with and understanding of the limitations.

**PO06. THE ENGINEERING AND SOCIETY:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO07. ENVIRONMENT & SUSTAINABILITY:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO08. ETHICS:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO09. INDIVIDUAL AND TEAM WORK:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10. COMMUNICATION:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11. PROJECT MANAGEMENT & FINANCE:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12. LIFE-LONG LEARNING:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**COURSE OUTCOMES (COs) OF THE SUBJECT**

CO No.	Mapping	Statement
CO486602.1	Understanding	Explain the concepts of disasters and hazards, understand their social and environmental implications, and assess risk and vulnerability in various scenarios.
CO486602.2	Analyzing	Identify different types of disasters, including hydro-meteorological disasters and geological disasters, and analyse the causes, impacts, and potential preventive measures for each type of disaster.
CO486602.3	Understanding	Recognise various man-made disasters, such as textile processing industrial hazards, major power breakdowns, traffic accidents, and fire hazards. To understand the factors contributing to these disasters and explore ways to prevent or mitigate their effects.
CO486602.4	Applying	To understand the management roles in disaster mitigation specifically related to the textile industry and illustrate the strategies and policies implemented by management to reduce disaster risks and ensure business continuity.
CO486602.5	Understanding	To comprehend the responsibilities of production personnel in disaster preparedness, response, and recovery, ensuring the safety of the workforce, and minimising production disruptions during disasters.

**COS MAPPING WITH POs AND PSOs**

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	2	0	1	0	0	1	1	0	2	0	0	0	0	0
CO2	0	3	0	1	0	0	2	0	0	2	0	0	0	0	0
CO3	0	2	0	0	0	0	2	2	0	2	0	0	0	0	0
CO4	0	3	0	0	0	0	2	2	0	2	0	0	0	0	0
CO5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0

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## UNIVERSITY ACADEMIC CALENDAR

### Academic Calendar for Even Semester for Session

Course: Bachelor of Technology (B.TECH.)				
Course: Bachelor of Technology (B.TECH.)				
Semester	II	IV	VI	VIII
Commencement of Classes	26.02.2024	15.02.2024	15.02.2024	02.01.2024
First Mid Term	02.04.2024	20.03.2024	20.03.2024	15.02.2024
Second Mid Term	03.06.2024	06.05.2024	06.05.2024	21.03.2024
Last Working Day	10.06.2024	31.05.2024	31.05.2024	20.04.2024
Commencement of Practical Exams	01.07.2024	03.06.2024	03.06.2024	22.04.2024
Commencement of Theory Exams	19.06.2024	14.06.2024	15.06.2024	02.05.2024
Project (VIII)	06.05.2024 to 15.05.2024			
Practical Training (After II Sem.)	15.07.2024 To 31.07.2024			
Practical Training (After IV Sem.)	01.07.2024 To 17.08.2024			
Practical Training (After VI Sem.)	01.07.2024 To 17.08.2024			
Commencement of Classes for next Odd Semesters (2023-24)	I	III	V	VII
	01.08.2024	01.08.2024	20.08.2024	20.08.2024

<b>Academic Calendar Even Semester 2023-24</b>				
Particulars	B.Tech-II	B.Tech- IV	B.Tech- VI	B.Tech- VIII
Commencement of classes	26-02-2024	15-02-2024	15-02-2024	02-01-2024
Last Working Day	10-06-2024	31-05-2024	31-05-2024	20-04-2024
Course Progression Report-I	27-03-2024	14-02-2024	14-02-2024	08-02-2024
First Mid Term Exam	02-04-2024	20-03-2024	20-03-2024	15-02-2024
Remedial Class-I	16-04-2024	02-04-2024	02-04-2024	29-02-2024
Course Progression Report-II	30-05-2024	01-05-2024	01-05-2024	18-03-2024
Second Mid Term Exam	03-06-2024	06-05-2024	06-05-2024	21-03-2024
Remedial Class-II	-	20-05-2024	20-05-2024	04-04-2024
Commencement of Theory Exam	19-06-2024	14-06-2024	15-06-2024	02-05-2024
Commencement of Practical Exam	01-07-2024	03-06-2024	03-06-2024	22-04-2024



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## Evaluation Scheme

### FACULTY DETAILS:

Name of the Faculty : Nishit Jain  
Designation : Assistant Professor  
Department : Civil Engineering

### 1. TARGET

a) Percentage Pass : 100%  
b) Percentage I class: 60 %

### 2. METHOD OF EVALUATION

- 2.1.  Continuous Assessment Examinations (Mid-Term 1, Mid-Term 2)  
2.2.  Assignments / Seminars  
2.3.  Mini Projects  
2.4.  Quiz  
2.5.  Semester Examination  
Others \_\_\_\_\_

3. List out any new topic(s) or any innovation you would like to introduce in teaching the subject in this Semester.

1. Take the help of creative tools to stimulate creativity. Include slide presentations, demonstration or forms of visual exercises that will excite the young minds and capture their interest.

Signature of Faculty:

Signature of HOD

**UNIVERSITY SYLLABUS**



**RAJASTHAN TECHNICAL UNIVERSITY, KOTA**

**Open Electives Syllabus**

**B. Tech.: IV Year- VII & VIII Semester**

**8TT6-60.2 : DISASTER MANAGEMENT**

**Credit: 3**

**Max. Marks: 150(IA:30, ETE:120)**

**3L+0T+0P**

**End Term Exam: 3 Hours**

SN	Contents	Hours
1	Introduction: Objective, scope and outcome of the course.	1
2	Understanding Disasters and Hazards and related issues social and environmental. Risk and Vulnerability. Types of Disasters, their occurrence/ causes, impact and preventive measures:	12
3	Natural. Disasters- Hydro-meteorological Based Disasters like Flood, Flash Flood, Cloud Burst, Drought, Cyclone, Forest Fires; Geological Based Disasters like Earthquake, Tsunami, Landslides, Volcanic Eruptions.	12
4	Man made Disasters: Textile Processing Industrial Hazards, Major Power Break Downs, Traffic Accidents, Fire Hazards.	12
5	Management roll in mitigating Disaster in Indian Textile Industries. Roll of production people in Disaster Management.	3
	<b>Total</b>	<b>40</b>

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**PRESCRIBED BOOKS**

1. Compilers, Principle, Techniques, and Tools. – Alfred.V Aho, Monica S.Lam, Ravi Sethi, Jeffrey D. Ullman.
2. Modern Compiler implementation in C , - Andrew N.Appel Cambridge University Press.
3. lex & yacc , -John R Levine, Tony Mason, Doug Brown; O'reilly.
4. Compiler Construction,- LOUDEN, Thomson.
5. Engineering a compiler – Cooper & Linda, Elsevier.
6. Modern Compiler Design – Dick Grune, Henry E.Bal, Cariel TH Jacobs, Wiley Dreatech

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## WEEKLY TIME TABLE OF THE TEACHER

First Time Table: with effect from (Date):

Day	1	2	3	4	5	6	7
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							

Revision: 1 with effect from (Date):

Day	1	2	3	4	5	6	7
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							

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## COURSE-PLAN

UNIT	Lect. No.	TOPICS	Teaching Methods/ Teaching Aids
1	1	Introduction: Objective, scope and outcome of the course.	White Board, PPT,
2	2	Understanding Disasters and related issues social and environmental.	White Board, PPT, Demonstration
2	3	Understanding Hazards and related issues social and environmental.	White Board
2	4	Understanding Disasters Cycle.	White Board
2	5	Understanding Disasters Cycle.	White Board, PPT
2	6	Explain the phase of disaster management system.	White Board
2	7	Risk and Vulnerability	White Board, PPT
2	8	Risk and Vulnerability	White Board
2	9	Types of Disasters,	White Board, PPT,
2	10	Types of Disasters,	White Board, PPT, Demonstration
2	11	Study on occurrence of Disaster.	White Board
2	12	Study on Impact of Disaster.	White Board
2	13	Study on preventive measures for Disaster.	White Board, PPT
3	14	Natural. Disasters- Hydro-meteorological Based Disaster.	White Board
3	15	Natural. Disasters- Hydro-meteorological Based Disaster.	White Board, PPT
3	16	Understand flood and related issue.	White Board
3	17	Understand Flash flood and related issue.	White Board, PPT,
3	18	Cloud burst causes and preventive measure.	White Board, Demonstration
3	19	Understand Drought, causes and preventive measure.	White Board

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3	20	Understand Cyclone, causes and preventive measure.	White Board
3	21	Understand Forest Fires, causes and preventive measure.	White Board, PPT
3	22	Geological Based Disasters like Earthquake causes and preventive measure.	White Board
3	23	Geological Based Disasters like Tsunami causes and preventive measure.	White Board, PPT
3	24	Geological Based Disasters like Land sliding causes and preventive measure.	White Board
3	25	Geological Based Disasters like Volcanic Eruptions causes and preventive measure.	White Board, PPT,
4	26	Understand Manmade Disasters.	White Board, PPT, Demonstration
4	27	Manmade Disaster: Causes and Preventing Measures.	White Board
4	28	Textile Processing Industrial Hazards	White Board
4	29	Textile Processing Industrial Hazards	White Board, PPT
4	30	Textile Processing Industrial Hazards	White Board
4	31	Understand Major Power Break Downs	White Board, PPT
4	32	Understand Major Power Break Downs	White Board
4	33	Understand Major Power Break Downs	White Board, PPT,
4	34	Understand Traffic Accidents, causes and preventive measure.	White Board, PPT, Demonstration
4	35	Understand Traffic Accidents, causes and preventive measure.	White Board
4	36	Understand Fire Hazards, causes and preventive measure.	White Board
4	37	Understand Fire Hazards, causes and preventive measure.	White Board, PPT
5	38	Management roll in mitigating Disaster in Indian Textile Industries. Roll of production people in Disaster Management	White Board

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5	39	Roll of production people in Disaster Management	White Board, PPT
5	40	Roll of production people in Disaster Management	White Board

**Signature of Faculty:**

**Signature of HOD**

**Assignment – 1 ()**

1. Describe the social and environmental issues related to disasters and hazards, highlighting their significance in risk assessment and management.
2. Discuss the concept of risk and vulnerability in the context of disaster preparedness and response.
3. Identify and explain the various types of natural disasters, including their occurrence, causes, impacts, and preventive measures.
4. Analyze hydro-meteorological based disasters such as floods, flash floods, cloud bursts, droughts, cyclones, and forest fires, focusing on their characteristics and management strategies.
5. Evaluate geological based disasters like earthquakes, tsunamis, landslides, and volcanic eruptions, examining their causes, impacts, and measures for mitigation.

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## **Assignment – 2 ()**

1. Examine man-made disasters, including textile processing industrial hazards, major power breakdowns, traffic accidents, and fire hazards, discussing their causes and preventive measures.
2. Assess the role of management in mitigating disasters within the Indian textile industry, highlighting strategies for disaster preparedness, response, and recovery.
3. Explore the specific responsibilities and contributions of production personnel in disaster management within the textile industry.
4. Propose strategies for improving disaster resilience and response coordination within the Indian textile industry, considering the integration of management and production efforts.
5. Reflect on case studies or real-life examples of disaster management in the textile industry, analyzing successes, challenges, and lessons learned for future improvement.

**SAMPLE QUIZ QUESTIONS**



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1	How do major power breakdowns occur, and what measures can be implemented to minimize their impact?
2	Discuss the factors contributing to traffic accidents and propose preventive measures to enhance road safety.
3	Analyze the causes of fire hazards in textile industries and suggest strategies for fire prevention and control.
4	How does management contribute to disaster preparedness in the Indian textile industry? Provide examples of effective strategies.
5	Evaluate the role of management in coordinating disaster response efforts during a crisis in the textile industry.
6	What specific responsibilities do production personnel have in disaster management within textile factories?
7	Discuss the importance of training production personnel in emergency response procedures and safety protocols.
8	Propose strategies for integrating disaster preparedness into the daily operations of textile production facilities.
9	How can management and production teams collaborate to improve communication and coordination during disaster response?
10	Identify potential weaknesses in current disaster resilience measures within the Indian textile industry and suggest improvements.
11	Discuss the benefits of establishing cross-functional disaster response teams in textile manufacturing plants.
12	What are the challenges faced by management in implementing disaster recovery plans in the textile industry?
13	Analyze case studies of successful disaster management initiatives in textile factories, highlighting key strategies and outcomes.
14	Discuss the obstacles encountered during past disaster events in textile production and the lessons learned from them.
15	Evaluate the effectiveness of current disaster response coordination mechanisms in the Indian textile sector.
16	Propose innovative approaches for enhancing disaster resilience in the supply chain of the textile industry.
17	How can technology be leveraged to improve disaster preparedness and response in textile manufacturing plants?
18	Discuss the ethical considerations involved in disaster management decision-making within the textile industry.

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## Mid Term Paper-I

### TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY, UDAIPUR

B. TECH 4<sup>th</sup> – YEAR (VII SEM.) – MT-I

Disaster Management (**8TT6-60.2**) (Common for all Branch)

Time: 2 Hr.

Max. Marks: 70

#### Note:

1. The paper is divided into 2 parts: Part-A and, Part-B
2. Part-A contains 10 questions and carries 2 mark each.
3. Part-B contains 5 questions. Each question has two options and carries 10 marks each.

PART A		
a	What is a disaster, and what is its management system?	CO1
b	What are the different types of disasters?	CO1
c	What are social issues regarding hazards?	CO2
d	Which pandemic affected the world badly recently?	CO2
e	What contributions can society make in disaster management?	CO3
f	What are geological-based disasters?	CO3
g	Which type of disaster developed due to increased traffic in present times?	CO4
h	What is disaster mitigation?	CO4
i	What are textile-industry-based disasters?	CO5
j	What is a tsunami?	CO5
PART B		
1	What are hydro-meterological-based disasters, and how can they be controlled?	CO1
	or Write a note on forest fires and their effects.	
2	What are volcanic eruptions? What are its causes and effects?	CO2
	or What measures can society take to minimize environmental-related issues?	
3	Describe the industrial hazards.	CO3
	or How can major power breakdowns be controlled?	
4	Write a note on the "roll of management" in industry-related disasters.	CO4
	or What is the importance of water pollution treatment plants in the textile industry?	
5	What is a disaster management cycle?	CO5
	or What do you understand by disaster vulnerability?	

**Mid Term Exam – I**

**Marks and Gap Analysis of Mid-Term I**

S.No.	University Roll No.	Name of Student	Mid-Term 1 MM-70	Remark ( Remedial Class need or not – Y/N )
1.	20ETCCE001	Avinash Ahari	63	N
2.	20ETCCE002	Ayushi Choubisa	50	N
3.	20ETCCE004	Kamal Singh Rao	63	N
4.	20ETCCE005	Kritika Dodia	58	N
5.	20ETCCE006	Pradeep Sharma	50	N
6.	20ETCCE009	Rudraksh Pacholi	58	N
7.	20ETCCE010	Shailesh Meghwal	56	N
8.	20ETCCE011	Suryabhan Singh Sarangdevot	63	N
9.	20ETCCE012	Vinit Mali	50	N
10.	20ETCCE300	Shailesh Mali	52	N

\*(Y, if obtained marks are <50%)

**Signature of Faculty:**

**Signature of HOD**

**Mid Term Exam – II**

**Marks and Gap Analysis of Mid-Term II**

S.No.	University Roll No.	Name of Student	Mid-Term 2 MM-70	Remark ( Remedial Class need or not – Y/N )
11.	20ETCCE001	Avinash Ahari	62	N
12.	20ETCCE002	Ayushi Choubisa	49	N
13.	20ETCCE004	Kamal Singh Rao	62	N
14.	20ETCCE005	Kritika Dodia	57	N
15.	20ETCCE006	Pradeep Sharma	49	N
16.	20ETCCE009	Rudraksh Pacholi	57	N
17.	20ETCCE010	Shailesh Meghwal	55	N
18.	20ETCCE011	Suryabhan Singh Sarangdevot	62	N
19.	20ETCCE012	Vinit Mali	49	N
20.	20ETCCE300	Shailesh Mali	51	N

\*(Y, if obtained marks are <50%)

**Signature of Faculty:**

**Signature of HOD**

**Techno India NJR Institute of Technology**  
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**Model Question Paper**

**PART - A**

(Answers should be given up to 25 words only)

All questions are compulsory.

(10×2=20)

1. Define the term Disaster Management?
2. Classify the types of Disaster?
3. What is Human made Disaster?
4. What is the difference between Emergencies and Disaster?
5. List all the phases of Disaster Management Life Cycle?
6. Define Hazard?
7. What is full form of PPE?
8. Which type of Disaster was Bhopal gas tragedy?
9. What do you mean by Disaster Mitigation?
10. What is the difference between Epidemic and Pandemic?

**PART - B**

(Analytical/Problem solving questions)

Attempt any **five** questions

(5×8=40)

1. Explain various phases of Disaster Management Cycle.
2. What do you mean by disaster vulnerability?
3. Write a note on the effect of cyclone on structures.
4. What are seismic waves? Explain.
5. Discuss the role of production persons in Disaster Management?
6. Write a note on waste water treatment plant in textile processing industry.
7. Discuss various mitigation measures for flood disaster.

**PART - C**

(Descriptive/Analytical/Problem Solving/Design questions)

Attempt any **Four** questions

(4×15=60)

1. Discuss in detail the types of Disaster along with examples for each type.
2. Discuss different types of Vulnerability with respect to different types of disasters.
3. Depending on the chemical nature, classify the sources of Air pollution and discuss the mitigation measures against Air pollution.
4. Discuss about different types of human induced disasters along with examples of recent incidents.
5. Write note on epicenter and epicentral distance. Further, explain the effects of earthquake on structures.

**STUDENT PERFORMANCE REPORT**

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## STUDENT PERFORMANCE REPORT

Roll No.	Name of Student	I Mid-Term	II Mid-Term	Average
20ETCCE001	Avinash Ahari	63	62	62.5
20ETCCE002	Ayushi Choubisa	50	49	49.5
20ETCCE004	Kamal Singh Rao	63	62	62.5
20ETCCE005	Kritika Dodia	58	57	57.5
20ETCCE006	Pradeep Sharma	50	49	49.5
20ETCCE009	Rudraksh Pacholi	58	57	57.5
20ETCCE010	Shailesh Meghwal	56	55	55.5
20ETCCE011	Suryabhan Singh Sarangdevot	63	62	62.5
20ETCCE012	Vinit Mali	50	49	49.5
20ETCCE300	Shailesh Mali	52	51	51.5

Signature of Faculty:

Signature of HOD

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## RESULT ANALYSIS

S.NO.	RTU ROLL NUMBER	NAME OF STUDENT	END TERM MARKS	SESSIONAL MARKS	TOTAL
			70	30	100
1.	20ETCCE001	Avinash Ahari	59	28	87
2.	20ETCCE002	Ayushi Choubisa	55	22	77
3.	20ETCCE004	Kamal Singh Rao	53	28	81
4.	20ETCCE005	Kritika Dodia	56	26	82
5.	20ETCCE006	Pradeep Sharma	31	22	53
6.	20ETCCE009	Rudraksh Pacholi	50	26	76
7.	20ETCCE010	Shailesh Meghwal	53	25	78
8.	20ETCCE011	Suryabhan Singh Sarangdevot	58	28	86
9.	20ETCCE012	Vinit Mali	50	22	72
10.	20ETCCE300	Shailesh Mali	55	23	78

TOTAL	PASS	FAIL	ABSENT	PASS %
10	10	0	0	100

**Indirect Assessment:**

**Overall Teacher Self Assessment (at the completion of course) in terms of course objective and outcomes**

**Course Objectives:**

To understand the fundamental concepts of disasters and hazardous.

To learn about hydro-metrological geological disasters and there mitigation.

To implement of disaster mitigation in textile industry.

To apply disaster preparedness.in industry

**Course Outcomes:**

Students can explain the theory and principles disaster & hazardous.

Students can explain mitigation for various disasters.

Students can implement a basic knowledge about textile industry.

Students can explain how to mitigate a disaster in textile industry.

**Methodology to identify bright student**

Considered a range of criteria, including academic performance, creativity, critical thinking, problem-solving skills, and enthusiasm for learning. Bright students often excel in multiple areas. Observed how students perform in the classroom. In terms of active participation, engagement in discussions, leadership, and the ability to grasp complex concepts.

**Efforts to keep students engaged**

1. Active Learning:

- Incorporate active learning strategies, such as group discussions, problem-solving activities, and hands-on projects. Active participation keeps students engaged and encourages critical thinking.

2. Varied Teaching Methods:

- Use a variety of teaching methods, including lectures, group work, multimedia presentations, and interactive activities to cater to different learning preferences.

3. Technology Integration:

- Leverage technology, such as online platforms, educational apps, and interactive software, to make lessons more engaging and interactive.

**Methodology to identify weak student**

Considered a range of criteria, including classroom observation, formative assessment, summative assessment, assignment review e.t.c. Weak students are struggling students with sensitivity and a desire to support their learning. Some measures, such as additional tutoring, personalized assignments, or alternative assessment methods, to help students succeed.

**Targeted inventions for weak student**



# **Techno India NJR Institute of Technology**

(Approved by AICTE, New Delhi and Affiliated to Rajasthan Technical University Kota (Raj.))

## **1. Additional Resources**

Offer supplementary learning materials, such as textbooks, online resources, or multimedia content, to provide alternative explanations and reinforce key concepts.

## **2. Remedial classes**

Establish a tutoring program where students can receive extra help from teachers.

## **3. Flipped classroom**

Students are assigned pre-class learning materials, often in the form of videos, readings, or online modules, to cover the foundational concepts before coming to class.