



UNIVERSITY
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“CELEBRATING DREAMS”

**Department of Civil
Engineering
School of engineering and
Technology**

Criteria 1

Sub Criteria 1.3.3

**Percentage of students undertaking field
projects/research projects/internships**

Academic Year

2023-2024


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“ CELEBRATING DREAMS ”

Index

S.no	Component	Page No
1.	Summary of Projects and Trainings	1
2.	Scheme of Projects and Training	2-6
3.	Syllabus of Projects and Training	7-20
4.	Research Projects of Students with Samples	21-24
5.	Industrial Training with Samples	25-27
6.	Field Project/Industry visits in UG	28-45


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"CELEBRATING DREAMS"

Summary of Projects and Trainings

Total Number of Research Projects in UG

Research Projects	Program	Total Number of students Involved in research projects
	B.Tech-CE	28

Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	54

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STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course:BTech(CivilEngineering)

Semester:3rd

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CEL0302[T]	Strength of Materials	40	30	30	0	0	0	100	2	1	0	3
2	CEL0303[T]	Concrete Technology	40	30	30	0	0	0	100	2	1	0	3
3	CEL0313[T]	Highway and Traffic Engineering	40	30	30	0	0	0	100	2	1	0	3
4	CEL0331[T]	Elementary design of structures (RCC)	40	30	30	0	0	0	100	2	1	0	3
5	CEL0333[T]	Building Planning and Drawing	40	30	30	0	0	0	100	2	0	0	2
6	MAL0308[T]	Engineering Mathematics	40	30	30	0	0	0	100	3	1	0	4
7	CED0301[P]	Evaluation of Industrial Training -I	0	0	0	40	30	30	100	0	0	2	2
8	CEL0302[P]	Strength of Materials	0	0	0	40	30	30	100	0	0	1	1
9	CEL0303[P]	Concrete Technology	0	0	0	40	30	30	100	0	0	1	1
10	CEL0313[P]	Highway and Traffic Engineering	0	0	0	40	30	30	100	0	0	1	1
11	CEL0331[P]	Elementary design of structures (RCC)	0	0	0	40	30	30	100	0	0	1	1
12	CEL0333[P]	Building Planning and Drawing	0	0	0	40	30	30	100	0	0	1	1
Total Credits												25	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)



Name of Course: BTech(CivilEngineering)

Semester: 5th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	CEL0510[T]	Hydraulics & fluid machine	40	30	30	0	0	0	100	2	1	0	3
2	CEL0511[T]	Advanced Surveying	40	30	30	0	0	0	100	2	1	0	3
3	CEL0512[T]	Fundamentals of Structural design(RCC)	40	30	30	0	0	0	100	2	1	0	3
4	CEL0514[T]	Advanced Methods of Structural Analysis	40	30	30	0	0	0	100	3	1	0	4
5	CEL0515[T]	Advanced Geotech Engineering	40	30	30	0	0	0	100	2	1	0	3
6	CE0501[P]	Industrial Training	0	0	0	40	30	30	100	0	0	2	2
7	CEL0510[P]	Hydraulics & fluid machine	0	0	0	40	30	30	100	0	0	1	1
8	CEL0511[P]	Advanced Surveying	0	0	0	40	30	30	100	0	0	1	1
9	CEL0512[P]	Fundamentals of Structural design(RCC)	0	0	0	40	30	30	100	0	0	1	1
10	CEL0515[P]	Advanced Geotech Engineering	0	0	0	40	30	30	100	0	0	1	1
Total Credits												22	

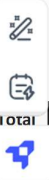
*Newly Added Courses

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STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)



Name of Course: BTech(CivilEngineering)

Semester: 6th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CEL0617[T]	Basic of Structural Design (Steel)	40	30	30	0	0	0	100	2	1	0	3
2	CEL0619[T]	Advanced Structural Design (RCC)	40	30	30	0	0	0	100	2	1	0	3
3	CEL0621[T]	Quantity Surveying & Costing	40	30	30	0	0	0	100	2	1	0	3
4	CEL0634[T]	Environmental Engineering	40	30	30	0	0	0	100	2	1	0	3
5	CEL0601[P]	Minor Project	0	0	0	40	30	30	100	0	0	2	2
6	CEL0617[P]	Basic of Structural Design (Steel)	0	0	0	40	30	30	100	0	0	1	1
7	CEL0619[P]	Advanced Structural Design (RCC)	0	0	0	40	30	30	100	0	0	1	1
8	CEL0621[P]	Quantity Surveying & Costing	0	0	0	40	30	30	100	0	0	1	1
9	CEL0634[P]	Environmental Engineering	0	0	0	40	30	30	100	0	0	1	1
10		Elective I.	40	30	30	0	0	0	100	3	1	0	4
Total Credits												22	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)


Name of Course:BTech(CivilEngineering)

Semester:7th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CEL0723[T]	Advanced Structural Design(Steel)	40	30	30	0	0	0	100	2	1	0	3
2	CEL0725[T]	Introduction to Construction Planning and Management	40	30	30	0	0	0	100	3	1	0	4
3	CEL0731[T]	Railway Engineering	40	30	30	0	0	0	100	3	1	0	4
4	CED0702[P]	Industrial training	0	0	0	40	30	30	100	0	0	2	2
5	CED0703[P]	Major Project (Planning and Literature Survey)	0	0	0	40	30	30	100	0	0	2	2
6	CEL0723[P]	Advanced Structural Design(Steel)	0	0	0	40	30	30	100	0	0	1	1
7		Elective3.	40	30	30	0	0	0	100	3	1	0	4
8		Elective2.	40	30	30	0	0	0	100	3	1	0	4
Total Credits												24	

*Newly Added Courses

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STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course:BTech(CivilEngineering)

Semester:8th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CEL0827[T]	Design of Hydraulic Structures	40	30	30	0	0	0	100	2	1	0	3
2	CEL0831[T]	Retrofitting and rehabilitation of structures	40	30	30	0	0	0	100	3	1	0	4
3	CE0804[P]	Major Project	0	0	0	40	30	30	100	0	0	8	8
4	CEL0827[P]	Design of Hydraulic Structures	0	0	0	40	30	30	100	0	0	1	1
5		Elective5.	40	30	30	0	0	0	100	3	1	0	4
6		Elective4.	40	30	30	0	0	0	100	3	1	0	4
												Total Credits	24

*Newly Added Courses
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Syllabus-2023-2024

(SOET)(BTech-CivilEngineering)

Title of the Course	Evaluation of Industrial Training -1
Course Code	CED0301[P]

Part A

Year	2nd	Semester	3rd	Credits	L	T	P	C
					0	0	2	2
Course Type	Lab only							
Course Category	Projects and Internship							
Pre-Requisite/s	subject knowledge of first and second semester			Co-Requisite/s				
Course Outcomes & Bloom's Level	<p>CO1- Understand the 'real' working environment and get acquainted with the organization structure, business operations and administrative functions(BL2-Understand)</p> <p>CO2- To have hands-on experience in the students' related field so that they can relate and reinforce what has been taught at the university(BL2-Understand)</p> <p>CO3- To promote cooperation and to develop synergetic collaboration between industry and the university in promoting a knowledgeable society(BL3-Apply)</p> <p>CO4- Develop the confidence require for group living and sharing of responsibilities of acquire leader ship qualities and democratic attitudes. (BL4-Analyze)</p> <p>CO5- Develop the capacity to meet emergencies and natural disasters and practice national integration and social harmony(BL5-Evaluate)</p>							
Coures Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professsonal Ethics ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)					

Part B

Modules	Contents	Pedagogy	Hours
1	Students have to submit a report on training and give a presentation on his/her experience	Presentation	8

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Industrial training has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum. The objective of an industrial training is to provide us an insight regarding internal working of companies. We understand that theoretical knowledge is not enough for a successful professional career. With an aim to go beyond academics, industrial visit provides students a practical perspective of the work place. Industrial trainings provide an opportunity to learn practically through interaction, working methods and employment practices.	Field work	BL3-Apply	40
Module-II	It gives students an exposure to current work practices as opposed to possibly theoretical knowledge being taught at college. Industrial visits provide an excellent opportunity to interact with industries and know more about industrial environment. Industrial trainings are arranged by TAP cell with an objective of providing us an opportunity to explore different sectors like IT, Manufacturing services, finance and marketing. Industrial visit helps to combine theoretical knowledge with practical knowledge. Industrial realities are opened to the students through industrial visits/trainings.	Field work	BL4-Analyze	40 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	50				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	40	40	20	60	


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Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	F
CO1	2	0	1	0	2	1	3	2	3	2	0	2	1	1	2
CO2	2	1	0	0	2	1	2	3	3	2	1	2	2	1	1
CO3	2	1	0	0	2	1	3	3	2	2	0	2	2	2	1
CO4	2	0	1	0	2	0	3	2	2	2	0	2	1	2	1
CO5	2	1	0	0	2	1	3	3	3	2	0	2	2	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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(SOET)(BTech-CivilEngineering)

Title of the Course	Industrial Training
Course Code	CED0501[P]

Part A

Year	3rd	Semester	5th	Credits	L	T	P	C	
					0	0	2	2	
Course Type	Lab only								
Course Category	Projects and Internship								
Pre-Requisite/s	Basic Knowledge of Civil Engineering			Co-Requisite/s					
Course Outcomes & Bloom's Level	<p>CO1- Understand the 'real' working environment and get acquainted with the organization structure, business operations and administrative functions(BL2-Understand)</p> <p>CO2- To have hands-on experience in the students' related field so that they can relate and reinforce what has been taught at the university(BL2-Understand)</p> <p>CO3- To promote cooperation and to develop synergetic collaboration between industry and the university in promoting a knowledgeable society(BL3-Apply)</p> <p>CO4- Develop the confidence require for group living and sharing of responsibilities of acquire leader ship qualities and democratic attitudes. (BL4-Analyze)</p> <p>CO5- Develop the capacity to meet emergencies and natural disasters and practice national integration and social harmony(BL5-Evaluate)</p>								
Coures Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professsonal Ethics ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)	SDG11(Sustainable cities and economies)					

Part B

Modules	Contents	Pedagogy	Hours
1	Students have to submit a report on training and give a presentation on his/her experience	Presentation	8


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Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Industrial training has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum. The objective of an industrial training is to provide us an insight regarding internal working of companies. We understand that theoretical knowledge is not enough for a successful professional career. With an aim to go beyond academics, industrial visit provides students a practical perspective of the work place. Industrial trainings provide an opportunity to learn practically through interaction, working methods and employment practices.	Field work	BL3-Apply	40
Module-II	It gives students an exposure to current work practices as opposed to possibly theoretical knowledge being taught at college. Industrial visits provide an excellent opportunity to interact with industries and know more about industrial environment. Industrial trainings are arranged by TAP cell with an objective of providing us an opportunity to explore different sectors like IT, Manufacturing services, finance and marketing. Industrial visit helps to combine theoretical knowledge with practical knowledge. Industrial realities are opened to the students through industrial visits/trainings.	Field work	BL4-Analyze	40 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	0				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	40	40	20	60	


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Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	F
CO1	2	0	1	0	2	1	3	2	3	2	0	2	1	1	2
CO2	2	1	0	0	2	1	2	3	3	2	1	2	2	1	1
CO3	2	1	0	0	2	1	3	3	2	2	0	2	2	2	1
CO4	2	0	1	0	2	0	3	2	2	2	0	2	1	2	1
CO5	2	1	0	0	2	1	3	3	3	2	0	2	2	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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(SOET)(BTech-CivilEngineering)

Title of the Course	Minor Project
Course Code	CED0601[P]

Part A

Year	3rd	Semester	6th	Credits	L	T	P	
					2	1	1	4
Course Type	Project							
Course Category	Discipline Core							
Pre-Requisite/s	Knowledge of Civil engineering and interdisciplinary subjects.			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- To enhance writing skills and knowledge.(BL2-Understand) CO2- To increase their mental ability.(BL3-Apply) CO3- To inculcate the ability to express innovative opinion and thoughts(BL4-Analyze) CO4- To have Dissertation works as skills development in students.(BL5-Evaluate)							
Courses Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)	SDG11(Sustainable cities and economies)				

Part B

Modules	Contents	Pedagogy	Hours
1	Project/Problem Identification	Project Work	8
2	Project Analysis, Requirement Gathering	Project Work	8
3	Implementation of Project/Solution	Project Work	8
4	Testing and Verification	Project Work	8
5	Presentation and Report Writing	Project Work	8

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Identification of a problem and formulation of a topic of project/thesis	PBL	BL3-Apply	15 hrs
Module-III	Dissertation and Viva-voci	PBL	BL5-Evaluate	20 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	50				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	1	1	-	-	-	-	-	-	-	-
CO2	1	1	1	1	1	2	2	1	-	-	-	-	-	-	-
CO3	1	1	1	2	1	2	1	2	-	-	-	-	-	-	-
CO4	1	1	1	1	1	2	1	2	-	-	-	-	-	-	-
CO5	1	1	1	2	1	2	1	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-


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(SOET)(BTech-CivilEngineering)

Title of the Course	Industrial training
Course Code	CED0702[P]

Part A

Year	4th	Semester	7th	Credits	L	T	P	C
					0	0	2	2
Course Type	Lab only							
Course Category	Projects and Internship							
Pre-Requisite/s	Basic Knowledge of Civil Engineering			Co-Requisite/s				
Course Outcomes & Bloom's Level	<p>CO1- Understand the 'real' working environment and get acquainted with the organization structure, business operations and administrative functions(BL2-Understand)</p> <p>CO2- To have hands-on experience in the students' related field so that they can relate and reinforce what has been taught at the university(BL2-Understand)</p> <p>CO3- To promote cooperation and to develop synergetic collaboration between industry and the university in promoting a knowledgeable society(BL3-Apply)</p> <p>CO4- Develop the confidence require for group living and sharing of responsibilities of acquire leader ship qualities and democratic attitudes. (BL4-Analyze)</p> <p>CO5- Develop the capacity to meet emergencies and natural disasters and practice national integration and social harmony(BL5-Evaluate)</p>							
Courses Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)	SDG11(Sustainable cities and economies)				

Part B

Modules	Contents	Pedagogy	Hours
1	Students have to submit a report on training and give a presentation on his/her experience	Presentation	8

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Industrial training has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum. The objective of an industrial training is to provide us an insight regarding internal working of companies. We understand that theoretical knowledge is not enough for a successful professional career. With an aim to go beyond academics, industrial visit provides students a practical perspective of the work place. Industrial trainings provide an opportunity to learn practically through interaction, working methods and employment practices.	Field work	BL3-Apply	40 hrs
Module-II	It gives students an exposure to current work practices as opposed to possibly theoretical knowledge being taught at college. Industrial visits provide an excellent opportunity to interact with industries and know more about industrial environment. Industrial trainings are arranged by TAP cell with an objective of providing us an opportunity to explore different sectors like IT, Manufacturing services, finance and marketing. Industrial visit helps to combine theoretical knowledge with practical knowledge. Industrial realities are opened to the students through industrial visits/trainings.	Field work	BL4-Analyze	40 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	50				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	40	40	20	60	

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	0	1	0	2	1	3	2	3	2	0	2	1	1	2
CO2	2	1	0	0	2	1	2	3	3	2	1	2	2	1	1
CO3	2	1	0	0	2	1	3	3	2	2	0	2	2	2	1
CO4	2	0	1	0	2	0	3	2	2	2	0	2	1	2	1
CO5	2	1	0	0	3	2	3	3	3	2	1	2	2	2	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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(SOET)(BTech-CivilEngineering)

Title of the Course	Major Project (Planning and Literature Survey)
Course Code	CED0703[P]

Part A

Year	4th	Semester	7th	Credits	L	T	P	C
					0	0	2	2
Course Type	Project							
Course Category	Projects and Internship							
Pre-Requisite/s	Knowledge of Civil engineering and interdisciplinary subjects.			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- To enhance writing skills and knowledge.(BL2-Understand) CO2- To increase their mental ability.(BL3-Apply) CO3- To inculcate the ability to express innovative opinion and thoughts(BL4-Analyze) CO4- To have Dissertation works as skills development in students.(BL5-Evaluate)							
Courses Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗		SDG (Goals)	SDG11(Sustainable cities and economies)				

Part B

Modules	Contents	Pedagogy	Hours
1	Project/Problem Identification	Project Work	8
2	Project Analysis, Requirement Gathering	Project Work	8
3	Writing of Literature Review	Project Work	8
4	Findings of Research Gap	Project Work	8
5	Presentation and Report Writing	Project Work	8

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Identification of a problem and formulation of a topic of project/thesis	PBL	BL3-Apply	15 hrs
Module-III	Dissertation and Viva-voci	PBL	BL5-Evaluate	20 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	50				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	


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Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	0	0	0	2	1	3	3	3	2	0	2	1	1	2
CO2	2	0	1	0	1	0	2	2	3	2	0	2	2	2	1
CO3	1	1	0	0	2	1	3	3	3	2	0	1	1	1	1
CO4	2	1	1	0	1	1	3	2	2	2	0	2	1	1	2
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Syllabus-2023-2024
(SOET)(BTech-CivilEngineering)

Title of the Course	Major Project
Course Code	CED0804[P]

Part A

Year	4th	Semester	8th	Credits	L	T	P	C
					0	0	8	8
Course Type	Project							
Course Category	Projects and Internship							
Pre-Requisite/s	Knowledge of Civil engineering and interdisciplinary subjects.			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- To enhance writing skills and knowledge.(BL2-Understand) CO2- To increase their mental ability.(BL3-Apply) CO3- To inculcate the ability to express innovative opinion and thoughts(BL4-Analyze) CO4- To have Dissertation works as skills development in students.(BL5-Evaluate)							
Courses Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG (Goals)	SDG11(Sustainable cities and economies)				

Part B


Modules	Contents	Pedagogy	Hours
1	Project/Problem Identification	Project Work	8
2	Project Analysis, Requirement Gathering	Project Work	8
3	Implementation of Project/Solution	Project Work	8
4	Testing and Verification	Project Work	8
5	Presentation and Report Writing	Project Work	8

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
Module-I	Identification of a problem and formulation of a topic of project/thesis	PBL	BL3-Apply	15 hrs
Module-III	Dissertation and Viva-voci	PBL	BL5-Evaluate	20 hrs

Part D(Marks Distribution)

Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	50				
Practical					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	50	40	20	60	


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Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	0	0	0	2	1	3	3	3	2	0	2	1	1	2
CO2	2	0	1	0	1	0	2	2	3	2	0	2	2	2	1
CO3	1	1	0	0	1	2	3	3	3	2	0	1	1	1	1
CO4	2	1	1	0	1	1	3	2	2	2	0	2	1	1	2
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Details of B. Tech Research Projects

Name of School: SOET

Name of the Course and Branch: B. Tech Civil Engineering

Batch: 2020-24

Total Number of Students enrolled: 27

S. No.	Name of the Project	Student name	Roll No	Year of study
1	Analysis of Multistorey Building Using Fluid Viscous Damper in ETAB	Piyush Sharma	BETN1CE20002	4 th year
		Shivam Dandotiya	BETN1CE20003	
		Rishabh Jain	BETN1CE20008	
		Shreyansh Rai	BETN5CE22T01	
2	Experimental Study of Plastic Bricks from Waste Plastics	Niranjan Ray Yadav	BETN1CE20012	4 th year
		Arpan Kumar Chaudhary	BETN1CE20018	
		Santosh Yadav	BETN1CE20011	
		Sushant Manjhi	BETN1CE20013	
3	Planning and Structural Analysis of Circular Multi-Storey Building G+10	Jibachh Sah	BETN1CE20025	4 th year
		Krishna Kumar Bhagat	BETN1CE20023	
		Rajdev Lodhi	BETN1CE20009	
		Niraj Kumar Sah	BETN1CE20021	
4	Comparative study of building with and without shear walls	Tatenda Jarawaza	BETN1CE20005	4th year
5	Design and Analysis of Residential Building G+5 using STAAD Pro	Christopher Kapende	BETN1CE19025	4th year
6	Soil Stabilization using Lime	Subodh Caudhary	BETN1CE20016	4th year
		Dipesh Kumar Das	BETN1CE20017	
		Anish Kumar Chaudhary	BETN1CE20019	
		Rabindra Chaudhary	BETN1CE20020	
		Krishna Kumar Mandal	BETN1CE20024	
7	Influence of Fly Ash on Self Compacting Fibre Reinforced Concrete	Subhash Chaudhary	BETN1CE20014	4th year
		Ashish Kumar Majhi	BETN1CE20026	
		Nitesh Kumar Shah	BETN1CE20022	
8	Partial Replacement of Bitumen by Waste Materials	Shariq Jamal	BETN1CE20006	4th year
		Shabir Ahma	BETN1CE20008	
		Amit Dhakar	BETN1CE20007	
		Tarun Singh	BETN1CE20004	
		Neeraj Kumar	BETN1CE20001	


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"CELEBRATING DREAMS"

Sample of Cover Pages of Projects

**ANALYSIS OF MULTISTORY BULIDING USING
"FLUID VISCOUS DAMPERS" IN ETAB**

A

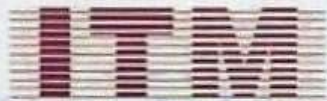
DISSERTATION

Submitted In Partial Fulfillment For The Award Of The Degree Of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING



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Submitted By

PIYUSH SHARMA (BETN1CE20002)

SHIVAM DANDOTIYA (BETN1CE20003)

RISHABH JAIN (BETN1CE20008)

SHERYANSH RAI (BETN5CE22T01)

Under The Guidance Of

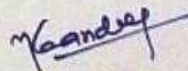
Mr. ADITYA SHARMA

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL OF ENGINEERING AND TECHNOLOGY

ITM UNIVERSITY, GWALIOR, MADHYA PRADESH, INDIA

2020-2024


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"CELEBRATING DREAMS"

**"EXPERIMENTAL STUDY OF PLASTIC BRICKS FROM
WASTE PLASTICS"**

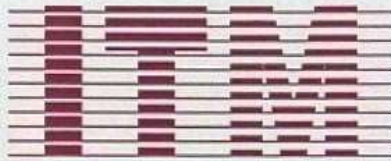
A MAJOR PROJECT REPORT

*Submitted in partial fulfilment for the award of the degree
of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING



UNIVERSITY

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2020 – 2024

Submitted by

Niranjan Ray Yadav (BETN1CE20012)

Arpan Kumar Chaudhary (BETN1CE20018)

Santosh Yadav (BETN1CE20011)

Sushant Majhi (BETN1CE20013)

Under the Guidance of

Mr. Shashank Gupta

Department of Civil Engineering

ITM UNIVERSITY, SCHOOL OF ENGINEERING &
TECHNOLOGY, AH – 43 BYPASS, JHANSI ROAD, GWALIOR
MADHYA PRADESH, 474001

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"CELEBRATING DREAMS"

**COMPARATIVE STUDY OF BUILDING WITH AND WITHOUT
SHEAR WALLS**

A

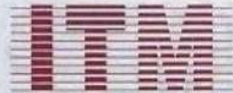
DISSERTATION

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BACHELOR IN TECHNOLOGY

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"CELEBRATING DREAMS"

Submitted by

TATENDA JARAWAZA (BETNICE20005)

Under the Guidance of

Mr. ADITYA SHARMA

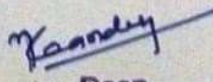
(Assistant Professor)

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL OF ENGINEERING & TECHNOLOGY

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"CELEBRATING DREAMS"

Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	55

GSTIN: 23AGMPY4366M1ZL Reg. No.: PWD200045104

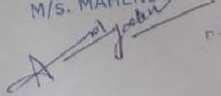
 **M/S. Mahendra & Sons**
Add: Over Bridge Road Subhash Nagar Morena (M.P.) (Anil Yadav)
Mob.: 9098007477, 8319840369


Ref. _____ Date: 30/07/23

INTERNSHIP TRAINING CERTIFICATE

This is to certify that Mr.Herdesh Solanki S/O Mr.Mahesh Solanki , a student of civil engineering -2rd year in ITM, University Gwalior successfully completed has 15 days internship about site engineer on ghatigaon water tank(From 12th June to 27th june at the Mahendra and sons .During the period of internship programme with us his conduct was so good, punctual and hard-working.

We wish him every success in life.

M/s. MAHENDRA AND SONS



Dr. Omveer Singh
REGISTRAR
ITM University
Gwalior (M.P.)

Office of the Executive Engineer,
R&B Sub-Division Maqam/GDA Tangmarg.

The Principal,
ITM University
GWALIOR MP India.

No: 4613-14

Dated:- 20-08-2023


Subject: - Training / Internship of B. Tech Civil Engineering Student.

Ref:- Your office No. ITM(U)/SOET/NOC/2023-24/33 Dt: 15-07-2023.

Sir,

Kindly refer your letter No. cited above regarding the titled subject, Mr. Shariq Jamal War S/O Mohammad Jamal War Roll No, BETNICE20006 of B. Tech Civil Engineering of 7th Semester of your institution attended the various construction sites/works which were ongoing in this Division for a period of 04 weeks. The student have gained sufficient knowledge in the Industrial training.

Yours faithfully,


Executive Engineer,
R&B Sub-Division Maqam,
GDA Tangmarg.

Copy to the:-

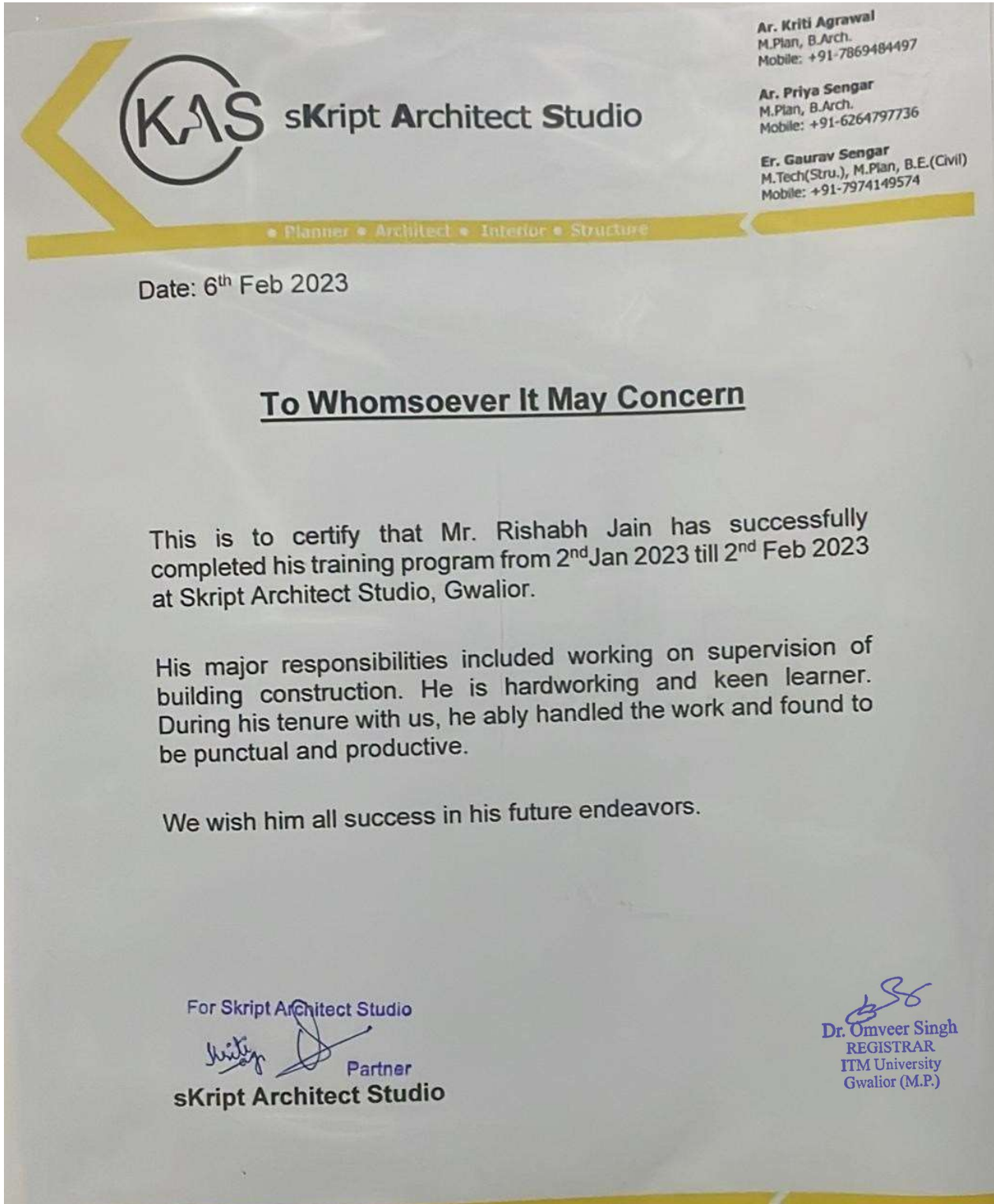
1- Asstt. Executive Engineer R&B Sub-Division Maqam for information. This is with reference to your No. 491/M


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Details of Industrial Visits and Site Visits

Industrial Visit	
Industry	Date
Industrial Visit- INDUSTRIAL VISIT, Avantika Gas Limited (Purani Chhawani)	13 February 2024
Industrial Visit- J B Mangharam Foods Private Limited Gwalior	19 January 2024
Industrial Visit- INDUSTRIAL VISIT, Sanchi Dairy Sanyantra (Banmore)	06 April 2023
Site Visit	
Construction Site	Date
Construction Site Visit- Extension of MG Block	03 May 2024
Construction Site Visit- The Gwalior International Cricket Stadium". Situated, Near Village Shankarpur	24 August 2023
Construction Site Visit- Extension of Sports Complex	18 August 2023


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**REPORT ON INDUSTRIAL VISIT,
J B Mangharam Foods Private Limited Gwalior**



1. **General:** Industrial visits for students of Mechanical, Civil & Agriculture were organized on 19 January 2024. The students were taken J B Mangharam Foods Private Limited , Gola Ka Mandir Gwalior.

2. **Participation:** Following faculty members and students visited the plant

- (a) Mr. Arun Singh Kushwah, Mr. Prabhu Dayal Arya, Mr. Vinod Rathore, Assistant Professor Mechanical Department, Mrs. Anshu Tiwari Assistant Professor Civil Department Mr. Aman Kushwah Lab Technician Civil Department.
- (b) Students of 2nd semester Mechanical Engineering, 05 in number
- (c) Students of 4th semester Mechanical Engineering, 08 in number
- (d) Students of 6th semester Mechanical Engineering, 05 in number
- (e) Students of 2nd semester Agriculture Engineering, 03 in number
- (f) Students of 4th semester Agriculture Engineering, 06 in number
- (g) Students of 2nd semester Civil Engineering, 04 in number
- (h) Students of 4th semester Civil Engineering, 07 in number

3. Visit was arranged by Mr. Neeraj Pathak Manager-HR.

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4. Objective of the visit:

- (a) To make students familiar with the modern Food processing unit and equipment used in the Making Biscuit of Britannia in J B Mangharam Gwalior.
- (b) To understand the importance of quality control.
- (c) To learn about waste management:
- (d) To show students, the similarity & difference between theoretical and practical concepts.

5. Learning Outcomes:

- (a) They will be able to describe the various stages and equipment involved in Making Biscuit for Britannia Company production, The biscuit making process is elaborate and continuous. The ingredients are combined to form a dough, which is kneaded and rolled to a uniform thickness. It is cut into biscuit shapes and placed in a travelling oven.
- (b) They will be able to apply the concepts of quality control and waste management in dairy processing and understand their importance for food safety and environmental protection.
- (c) They will be able to analyze the challenges and opportunities faced by the dairy industry in terms of market demand, competition, innovation, and sustainability.
- (d) They will be able to evaluate the performance and efficiency of different biscuit making processing methods and technologies and suggest possible improvements or alternatives.
- (e) They will be able to demonstrate practical skills and knowledge by participating in various aspects of dairy processing, such as operating machines, conducting tests, and handling products.

6. Feedback from students:

Students gave positive feedback to words practical exposor of modern Food Industry (biscuit making process Industry).



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List of present students during Industrial visit-

S.no.	NAME	branch	semester
01.	Krishna Baghel	ME	2nd SEM
02.	Ramu Savita	ME	2nd SEM
03.	Sparsh Jain	ME	2nd SEM
04.	Utkaesh Patil	ME	2nd SEM
05.	Kunal George	ME	2nd SEM
06.	Sujal Gupta	ME	4 th SEM
07.	Alpesh Tomar	ME	4 th SEM
08.	Jagal Rawat	ME	4 th SEM
09.	Sanjay singh	ME	4 th SEM
10.	Druv Verma	ME	4 th SEM
11.	Yash Vardhan Singh	ME	4 th SEM
12.	Aniket Kaurav	ME	4 th SEM
13.	Nishant Sharma	ME	4 th SEM
14.	Babu Ali	ME	6 th SEM
15.	Bavandeep	ME	6 th SEM
16.	Divyansh Pannani	ME	6 th SEM
17.	Vijay Sharma	ME	6 th SEM
18.	Krishna Gupta	ME	6 th SEM
19.	Abhishek Singh Tomer	AGE	2nd SEM
20.	Arun Rajak	AGE	2nd SEM
21.	Om Patel	AGE	2nd SEM
22.	OmGupta	AGE	4 th SEM
23.	JaiSoni	AGE	4 th SEM
24.	HarshKumar	AGE	4 th SEM
25.	MohammadHasanKhan	AGE	4 th SEM
26.	VivekMalkipuram	AGE	4 th SEM
27.	Toran	AGE	4 th SEM
28.	Khushi	CE	2nd SEM
29.	Abdul	CE	2nd SEM
30.	Vikash	CE	2nd SEM
31.	Akash	CE	2nd SEM
32.	Aditya Gautam	CE	4 th SEM


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33.	Suryabhan Dhakar	CE	4 th SEM
34.	Sanon Moakiatou	CE	4 th SEM
35.	AneshuChuma	CE	4 th SEM
36.	Rohit Tomar	CE	4 th SEM
37.	Ayush Kumar Sharma	CE	4 th SEM
38.	Vikash Harwariya	CE	4 th SEM

REPORT ON INDUSTRIAL VISIT, Sanchi Dairy Sanyantra (Banmore)



1. **General:** Industrial visits for students of Mechanical, Civil & Agriculture were organized on 06 April 2023. The students were taken Sanchi Dairy Sanyantra in Banmore, Morena.
2. **Participation:** Following faculty members and students visited the plant
 - (a) Dr. Shashikant Pandey, Mr. Shateesh kumar, Assistant Professor ME department and Mr. Nikhil Nandwani Assistant Professor Civil department
 - (b) Students of 7th semester Mechanical Engineering, 04 in number
 - (c) Students of 5th semester Mechanical Engineering, 03 in number
 - (d) Students of 5th semester Agriculture Engineering, 07 in number
 - (e) Students of 5th semester Civil Engineering, 06 in number
 - (f) Students of 3rd semester Mechanical Engineering, 06 in number
 - (g) Students of 3rd semester Agriculture Engineering, 06 in number
 - (h) Students of 3rd semester Civil Engineering, 08 in number
3. Visit was arranged by Narendra Gautam, Sanchi Dairy Sanyantra Banmor.

Narendra
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4. Objective of the visit:

- (a) To make students familiar with the modern milk processing unit and equipment used in the milk processing.
- (b) To understand the importance of quality control.
- (c) To learn about waste management.
- (d) To show students, the similarity & difference between theoretical and practical concepts.

5. Learning Outcomes:

- (a) They will be able to describe the various stages and equipment involved in milk production, such as pasteurization, homogenization, and packaging.
- (b) They will be able to apply the concepts of quality control and waste management in dairy processing and understand their importance for food safety and environmental protection.
- (c) They will be able to analyze the challenges and opportunities faced by the dairy industry in terms of market demand, competition, innovation, and sustainability.
- (d) They will be able to evaluate the performance and efficiency of different dairy processing methods and technologies and suggest possible improvements or alternatives.
- (e) They will be able to demonstrate practical skills and knowledge by participating in various aspects of dairy processing, such as operating machines, conducting tests, and handling products.


6. Feedback from students:

Students gave positive feedback to words practical exposé of modern Food Industry (biscuit making process Industry).

List of present students during Industrial visit-

S.no.	NAME	branch	semester
01.	Deepika Bhadoriya	ME	7 th SEM
02.	Suraj kumar	ME	7 th SEM
03.	Aniketh diwedi	ME	7 th SEM
04.	Berthe fedal	ME	7 th SEM
05.	Divyansh Pamnani	ME	5 th SEM
06.	Bavandeep Singh Chauhan	ME	5 th SEM
07.	Krishna Gupta	ME	5 th SEM
08.	Yogendra Singh	AGE	5 th SEM
09.	Manne.Eshwar	AGE	5 th SEM
10.	W.Dixit	AGE	5 th SEM
11.	G.Aravind	AGE	5 th SEM
12.	P.Nagasai	AGE	5 th SEM
13.	S.Vignesh	AGE	5 th SEM
14.	B. Manohar	AGE	5 th SEM
15.	Gulab Dev Das	CE	5 th SEM
16.	Harsh Niket	CE	5 th SEM
17.	Voice Raj Meena	CE	5 th SEM


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18.	Arindam Kumar	CE	5 th SEM
19.	Abhi Arya	CE	5 th SEM
20.	Ankit Yadav	CE	5 th SEM
21.	Aniket Kaurav	ME	3 th SEM
22.	Sanjay Singh	ME	3 th SEM
23.	Alpesh Tomar	ME	3 th SEM
24.	Sujal Gupta	ME	3 th SEM
25.	Jugal Rawat	ME	3 th SEM
26.	Dhruv Verma	ME	3 th SEM
27.	Om Gupta	AGE	3 th SEM
28.	Jai Soni	AGE	3 th SEM
29.	Harsh Kumar	AGE	3 th SEM
30.	Mohammad Hasan Khan	AGE	3 th SEM
31.	Vivek Malkipuram	AGE	3 th SEM
32.	Toran	AGE	3 th SEM
33.	Rohit Tomar	CE	3 th SEM
34.	Aditya Gautam	CE	3 th SEM
35.	Shubham Tomar	CE	3 th SEM
36.	Hirdesh Solanki	CE	3 th SEM
37.	Aneshu Chuma	CE	3 th SEM
38.	Suryabhan Dhakar	CE	3 th SEM
39.	Aditya Dhakad	CE	3 th SEM
40.	Ayush Sharma	CE	3 th SEM


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REPORT ON SITE VISIT TO AVANTIKA GAS LIMITED



- **GENERAL:** Site visit for students of II, IV and VI semester of department of civil engineering was organized on 13th February 2024. The students were taken to Avantiika Gas Limited that was Mother Station of Gwalior City.
- **PARTICIPATION:** Following faculty members and students visited the site

- (A) [Mr. Aditya Sharma](#)
- (B) [Mr. Shashank Gupta](#),
- (C) [Mrs. Anshu Tiwari](#),

[Assitant Professor,](#)
[Department of Civil Engineering.](#)

- Total 29 students went to visit the site
- Visit was arranged by **Mr. Ravi Sharma, GA Head OIC of Avantiika Gas Limited.**

TRANSPORT: Students reported in civil department at 11am and visited the site by the university bus.

OBJECTIVE OF THE VISIT:

(A)-To make student familiar with transport and supply of different Pressurized Gases.

(B)-To show, how the gas are circulate in area
Like- (LPG, PNG, CNG etc.)

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(C)-To show student, different types of machine and design where gas supply is done.

FEEDBACK FROM STUDENT

The students gained practical experience of the gases and understood the process of how all the pressurized gases are formed and also understood their supply chains from national level to our homes.



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List of student

Sr no.	Roll no.	Name of Students
1	BETN1CE23001	Khushi
2	BETN1CE23002	Akash Rathore
3	BETN1CE23004	Abdoul Marouf
4	BETN1CE23006	Vikash Singh Tomar
5	BETN1CE23009	Manish Sahni
6	BETN1CE23010	Om Rawat
7	BETN1CE22001	Ayush Kumar Sharma
8	BETN1CE22004	Rohit Singh Tomar
9	BETN1CE22005	Shubham Singh Tomar
10	BETN1CE22007	Harsh Gurjar
11	BETN1CE22008	Suryabhan Dhakad
12	BETN1CE22010	Aditya Dhakad
13	BETN1CE22012	Chuma Anesu Ashman
14	BETN1CE22013	Aditya Gautam
15	BETN1CE22014	Hardesh Solanki
16	BETN1CE22019	Amit Raj
17	BETN1CE22020	Pramendra Kumar Singh
18	BETN1CE22021	Rohit Chaudhary Lekhi
19	BETN1CE23D01	Lalrinmuana
20	BETN1CE21001	Abhi Arya
21	BETN1CE21002	Gulab Dev Das
22	BETN1CE21003	Harsh Niket
23	BETN1CE21004	Somnath Ray
24	BETN1CE21008	Arindam Kumar
25	BETN1CE21009	Voice Raj Meena
26	BETN1CE21010	Ankit Yadav
27	BETN1CE21011	Arun Kumar Yadav
28	BETN1CE22D02	Gemin Tali
29	BETN1CE19006	Cisse Mohammad


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