

**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

2020-2021



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“ CELEBRATING DREAMS ”

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“ CELEBRATING DREAMS ”

Summary of Projects and Training

Total Number of Research Projects in UG and PG

Research Projects	Program	Total Number of students Involved in research projects
	B.Tech-CE	19

Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	39


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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										
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	CEL0302[T]	Strength of Materials	40	30	30	0	0	0	100	2	1	0	3
2	CEL0303[T]	Civil Engg. Materials & 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	MAL0308[T]	Engineering Mathematics	40	30	30	0	0	0	100	3	1	0	4
6	CED0301[P]	Evaluation of Industrial Training-1	0	0	0	40	30	30	100	0	0	2	2
7	CEL0302[P]	Strength of Materials	0	0	0	40	30	30	100	0	0	1	1
8	CEL0303[P]	Civil Engg. Materials & Concrete Technology	0	0	0	40	30	30	100	0	0	1	1
9	CEL0313[P]	Highway and Traffic Engineering	0	0	0	40	30	30	100	0	0	1	1
10	CEL0331[P]	Elementary design of structures (RCC)	0	0	0	40	30	30	100	0	0	1	1
11	CEP333[P]	Building Design	0	0	0	40	30	30	100	0	0	2	2
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(Civil Engineering)

Semester: 5th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted										
			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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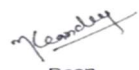
STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course:BTech(CivilEngineering)

Semester:6th

S.No.	Subject Code	Subject Name	Maximum Marks Allotted										3
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	CEL0617[T]	Basic of Structural Design (Steel)	40	30	30	0	0	0	100	2	1	0	3
2	CEL0618[T]	Water Resource & Irrigation Engineering	40	30	30	0	0	0	100	3	1	0	4
3	CEL0619[T]	Advanced Structural Design (RCC)	40	30	30	0	0	0	100	2	1	0	3
4	CEL0620[T]	Railway, Bridges and tunnel engineering	40	30	30	0	0	0	100	2	1	0	3
5	CEL0621[T]	Quantity Surveying & Costing	40	30	30	0	0	0	100	2	1	0	3
6	CED0601[P]	Minor Project	0	0	0	40	30	30	100	0	0	2	2
7	CEL0617[P]	Basic of Structural Design (Steel)	0	0	0	40	30	30	100	0	0	1	1
8	CEL0619[P]	Advanced Structural Design (RCC)	0	0	0	40	30	30	100	0	0	1	1
9	CEL0621[P]	Quantity Surveying & Costing	0	0	0	40	30	30	100	0	0	1	1
												Total Credits	21

* 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										3
			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	CEL0724[T]	Environment Engineering -I	40	30	30	0	0	0	100	2	1	0	3
3	CEL0725[T]	Introduction to Construction Planning and Management	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	CEL0724[P]	Environment Engineering -I	0	0	0	40	30	30	100	0	0	1	1
8		Elective2.	40	30	30	0	0	0	100	3	1	0	4
9		Elective1.	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										4
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	CEL0826[T]	Environment Engineering-II	40	30	30	0	0	0	100	2	1	0	3
2	CEL0827[T]	Design of Hydraulic Structures	40	30	30	0	0	0	100	2	1	0	3
3	CED0804[P]	Major Project	0	0	0	40	30	30	100	0	0	8	8
4	CEL0826[P]	Environment Engineering-II	0	0	0	40	30	30	100	0	0	1	1
5	CEL0827[P]	Design of Hydraulic Structures	0	0	0	40	30	30	100	0	0	1	1
6		Elective4.	40	30	30	0	0	0	100	3	1	0	4
7		Elective3.	40	30	30	0	0	0	100	4	0	0	4
Total Credits												24	

*Newly Added Courses

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(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 ✓ Professional Ethics ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)	SDG9(Industry Innovation and Infrastructure) 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
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	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	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 ✓ Professional Ethics ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)	SDG9(Industry Innovation and Infrastructure) 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
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	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	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	C
					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)	SDG9(Industry Innovation and Infrastructure) 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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Syllabus-2020-2021
(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)	SDG9(Industry Innovation and Infrastructure) 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
					0	0	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)				

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-2020-2021
(SOET)(BTech-CivilEngineering)

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

Part A

Year	4th	Semester	8th	Credits	L	T	P
					0	0	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 ✗ Gender ✗ Human Values ✓ Environment ✗		SDG (Goals)				

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	0	1	0	1	2	3	3	3	2	0	1	1	1	1
CO4	2	1	1	0	1	2	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: 2017-21

Total Number of Students enrolled: 19

Sr. No.	Project (Minor/Major) Topic	Name and Roll Number of the Students involved in a Group		Assigned Faculties
		Roll Number	Name	
Major Projects (8th Sem)				
1	Pre-Stress Girder	BETN1CE17019	Shiva Gaur	Mr. Aditya Sharma
		BETN1CE17004	Archit Shivam	
		BETN1CE17010	Harshvardhan Singh	
2	Sustainable development through modern infrastructure	BETN1CE17003	Anmol Gangil	
		BETN1CE17005	Ashutosh Sharma	
		BETN1CE17006	Aayush Chauhan	
3	Fly Ash Bricks Study	BETN1CE17014	Piyush Tyagi	
		BETN1CE17001	Abhay Sharma	Mr. Sohrit Agrawal
		BETN1CE17011	Kopal Chauhan	
4	Manufacturing of Eco Bricks	BETN1CE17012	Anjali Yadav	
		BETN1CE17013	Pawan Ghuraiya	
		BETN1CE17016	Raj Hina Nabam	
5	Emission of air pollutants from vehicles in gwalior region	BETN1CE17020	Bikash Pathak	
		BETN1CE17007	Bhushan Kumar	
		BETN1CE17017	Saif Ali	Mr. Nikhil Nandwani
		BETN1CE17012	Kumari Anjali	
		BETN1CE17001	Abhay Sharma	
BETN1CE17023	Suraj Singh Rajawat			
		BETN1CE17015	Pradeep sharma	


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"CELEBRATING DREAMS"

Pre-stressed Girder

A

DISSERTATION

Submitted in Partial Fulfillment for the award of the Degree of

BACHELOR IN TECHNOLOGY

IN

CIVIL ENGINEERING



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"CELEBRATING DREAMS"

Submitted by

SHIVA GAUR (BETNICE17019)

ARCHIT SHIVAM (BETNICE17004)

HARSHWARSHAN SINGH (BETNICE17010)

Under the Guidance of

Mr. ADITYA SHARMA


(Assistant Professor)

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL OF ENGINEERING & TECHNOLOGY

ITM UNIVERSITY GWALIOR, (M.P) INDIA

2017-2021


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"CELEBRATING DREAMS"

Sustainable development through modern infrastructure

A DISSERTATION

Submitted in Partial Fulfillment for the award of the Degree of

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IN

CIVIL ENGINEERING



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"CELEBRATING DREAMS"

Submitted by

Anmol Gargi (BETNICE17003)

Ashutosh Sharma (BETNICE17005)

Ayush Chauhan (BETNICE17006)

Piyush Tyagi (BETNICE17014)

Under the Guidance of

Mr. ADITYA SHARMA


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"CELEBRATING DREAMS"

Study on Fly Ash Bricks

A DISSERTATION

Submitted in Partial Fulfillment for the award of the Degree of

BACHELOR IN TECHNOLOGY

IN

CIVIL ENGINEERING



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"CELEBRATING DREAMS"

Submitted by

Abhay Sharma (BETNICE17001)

Kopal Chauhan (BETNICE17011)

Anjali Yadav (BETNICE17012)

Pawan Ghuraiya (BETNICE17013)

Under the Guidance of

Mr. SOHIT AGRAWAL

(Assistant Professor)

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"CELEBRATING DREAMS"

Manufacturing of Eco Bricks

A DISSERTATION

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Submitted by

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Bikash Pathak (BETNICE17020)

Bhushan Kumar (BETNICE17007)

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"CELEBRATING DREAMS"

Emission of air pollutants from vehicles in Gwalior region

A DISSERTATION

Submitted in Partial Fulfillment for the award of the Degree of

BACHELOR IN TECHNOLOGY

IN

CIVIL ENGINEERING



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Submitted by

Saif Ali (BETNICE17017)

Kumari Anjali (BETNICE17012)

Abhay Sharma (BETNICE17001)

Suraj Singh Rajawat (BETNICE17023)

Pradeep Sharma (BETNICE17015)

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Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	39

Programs/ Internships: - The students of civil engineering involve in the curriculum 3 times though out the whole B. Tech Program. The industrial training is included in the odd semester of all years. The students are encouraged to indulge themselves for internships in industry. Some of the examples of training certificates are attached below

Sl. No.	Name of the participant	SEM	Title of the collaborative activity	Name of the collaborating agency with contact details	Duration
1	Anku Singh Bhadouriya	III	AutoCAD 2018	Udemy	30 Days
2	Apoorv chourasia	III	AutoCAD 2018	Udemy	30 Days
3	Balbir Singh Rajawat	III	AutoCAD 2018	Udemy	30 Days
4	Bhupe Kunda	III	AutoCAD 2018	Udemy	30 Days
5	Charles Claude Siwale	III	AutoCAD 2018	Udemy	30 Days
6	Joel Munga Gideon	III	AutoCAD 2018	Udemy	30 Days
7	Kartik Gupta	III	AutoCAD 2018	Udemy	30 Days
8	Kulprakash Badal	III	AutoCAD 2018	Udemy	30 Days
9	Lehnam Kahunga	III	AutoCAD 2018	Udemy	30 Days
10	Mohd Saqlain	III	AutoCAD 2018	Udemy	30 Days
11	Musaib Ahmad Shah	III	AutoCAD 2018	Udemy	30 Days
12	Nadeem Reyaz	III	AutoCAD 2018	Udemy	30 Days

13	Niza Manzi	III	AutoCAD 2018	Udemy	30 Days
14	Pakyum Tamo	III	AutoCAD 2018	Udemy	30 Days
15	Parth Singh Chauhan	III	AutoCAD 2018	Udemy	30 Days
16	Sampa Banda	III	AutoCAD 2018	Udemy	30 Days
17	Tushar Karn	III	AutoCAD 2018	Udemy	30 Days
18	Prithivi Raj Chaudhary	III	AutoCAD 2018	Udemy	30 Days
19	ABHAY SHARMA	VII	Staad Pro	Cepta Infotech	45 Days
20	ANMOL GANGIL	VII	Staad Pro	Cepta Infotech	45 Days
21	ARCHIT SHIVAM	VII	Staad Pro	Cepta Infotech	45 Days
22	ASHUTOSH SHARMA	VII	Staad Pro	Cepta Infotech	45 Days
23	AYUSH CHAUHAN	VII	Staad Pro	Cepta Infotech	45 Days
24	BHUSHANKUMAR SAH	VII	Staad Pro	Cepta Infotech	45 Days
25	HARIPRAPANN GOSWAMI	VII	Staad Pro	Cepta Infotech	45 Days
26	HARSHVARDHAN KUMAR	VII	Staad Pro	Cepta Infotech	45 Days
27	KOPAL CHAUHAN	VII	Staad Pro	Cepta Infotech	45 Days
28	KUMARI ANJALI	VII	Staad Pro	Cepta Infotech	45 Days
29	PAWAN GHURAIYA	VII	Staad Pro	Cepta Infotech	45 Days
30	PIYUSH TYAGI	VII	Staad Pro	Cepta Infotech	45 Days
31	SAIF ALI	VII	Staad Pro	Cepta Infotech	45 Days
32	SHIVA GAUR	VII	Staad Pro	Cepta Infotech	45 Days
33	SURAJ RAJAWAT	VII	Staad Pro	Cepta Infotech	45 Days
34	MADHUNJAY KUMAR SAURABH	VII	Staad Pro	Cepta Infotech	45 Days



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35	BAJRANG SINGH SIKARWAR	V	AutoCAD 2018	Udemy	30 Days
36	CHIRAG GUPTA	V	AutoCAD 2018	Udemy	30 Days
37	HABU APANG	V	AutoCAD 2018	Udemy	30 Days
38	ROHIT DANDOTIYA	V	AutoCAD 2018	Udemy	30 Days
39	SANJU PRAJAPATI	V	AutoCAD 2018	Udemy	30 Days

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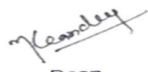


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Sample of Certificates




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ITM University Gwalior Campus, NH-44, Turari, Gwalior, (M.P.) - 475 001 INDIA
mail: info@itmuniversity.ac.in, web: www.itmuniversity.ac.in


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Certificate no: UC-3c40500a-44a0-40fa-b7b2-3720884cb250

Certificate url: ude.my/UC-3c40500a-44a0-40fa-b7b2-3720884cb250

Reference Number: 0004

CERTIFICATE OF COMPLETION

The complete AutoCAD 2018 course

Instructors **Jaiprakash Pandey**

Chirag Gupta

Date: 15 June 2020

Length: 18 total hours

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Certificate no: UC-3c40500a-44a0-40fa-b7b2-3720884cb250
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