



UNIVERSITY
GWALIOR • MP • INDIA

“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

2019-2020


Dr. Omveer Singh
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“ CELEBRATING DREAMS ”

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“ CELEBRATING DREAMS ”

Total Number of Research Projects in UG and PG

Research Projects	Program	Total Number of students Involved in research projects
	B.Tech-CE	30

Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	21


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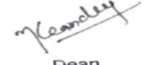
STUDY AND EVALUATION SCHEME (SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: BTech(CivilEngineering)

Semester:3rd

S.No.	Subject Code	Subject Name	Maximum Marks Allotted										P
			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]	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(CivilEngineering)

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	CED0501[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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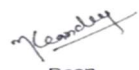
STUDY AND EVALUATION SCHEME
(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

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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Syllabus-2019-2020

(SOET)(BTech-CivilEngineering)

Title of the Course	Industrial Training
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	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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Syllabus-2019-2020

(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


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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
	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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Syllabus-2019-2020

(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-2019-2020
(SOET)(BTech-CivilEngineering)

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

Part A

Year	4th	Semester	7th	Credits	L 0	T 0	P 2	C 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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Syllabus-2019-2020

(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-2019-2020
(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 ✗ 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	

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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: 30

S.No	Name of the Student	Roll No.	Title of the project	Guide
1	BETN1CE16002	AMAN BHADOURIA	Glass Fibre Concrete with partial replacement with fly ash and coarse aggregate with coconut shell	Sohit Agrawal
2	BETN1CE16003	ASHISH NIRALA		
3	BETN1CE16004	ASHISH UPADHYAY		
4	BETN1CE16005	ASHWANI KUMAR		
5	BETN1CE16006	BABLU KUMAR	Fly Ash Concrete with partial replacement of cement by fly ash and case study of modern types of concrete	Sameer Shrivastava
6	BETN1CE16007	DEEPAK KUMAR		
7	BETN1CE16008	HIMANSHU DANDOTIYA		
8	BETN1CE16010	KULBHUSHAN SINGH KUSHWAH		
9	BETN1CE16011	MRINAL PRIYADARSHI	Partial Replacement of Sand with waste saw dust in Concrete	Dr. Mukesh Pandey
10	BETN1CE16012	MUNENDRA PARIHAR		
11	BETN1CE16013	NILESH KUMAR SHUKLA		
12	BETN1CE16014	PRAFULL MUDGAL		
13	BETN1CE16015	PRASHANT KUMAR PRIYADARSHI	Partial Replacement of fine aggregate with glass powder	Farhan UI Rahman
14	BETN1CE16016	PRAVEEN SHEORAN		
15	BETN1CE16017	PRAVEEN SINGH CHANDEL		
16	BETN1CE16018	PRINCE KUMAR		
17	BETN1CE16019	PRIYANSHU KUSTWAR	Design of a Flexible Pavement for an existing road	O. P. S. Bhadauriya
18	BETN1CE16020	QUASIF RAZA		
19	BETN1CE16021	RAHUL RAJPUT		
20	BETN1CE16023	RISHABH KUSHWAHA		
21	BETN1CE16024	S SAHIL	Design of Overhead Water Tank using STAAD Pro.	Nikhil Nandwani
22	BETN1CE16025	SADDAM HUSSAIN		
23	BETN1CE16026	SANDEEP KUMAR CHAURASIYA		
24	BETN1CE16027	SHASHEVENDRA		

		SINGH RAJAWAT		
25	BETN1CE16029	TAMCHI AGUNG	Design Planning and Cost Estimation of G+1 Building	Dr. Mukesh Pandey
26	BETN1CE16030	TANVEER UL ISLAM		
27	BETN1CE16031	UMANG YADAV		
28	BETN1CE16032	SUSHANT MOHAN PANDEY	Design of Pavement	Sohit Agrawal
29	BETN1CE16033	KAPIL PRAJAPATI		
30	BETN3CE17D01	SANA PRAWEEEN		


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"CELEBRATING DREAMS"

Glass Fibre Concrete with partial replacement with fly ash and coarse aggregate with coconut shell

A

DISSERTATION

Submitted in Partial Fulfillment for the award of the Degree of

BACHELOR IN TECHNOLOGY

IN

CIVIL ENGINEERING



UNIVERSITY
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"CELEBRATING DREAMS"

Submitted by

AMAN BHADAURIYA (BETNICE16002)

ASHISH NIRALA (BETNICE16003)

ASHISH UPADHYAY (BETNICE16004)

ASHWANI KUMAR (BETNICE16005)


Dean
School of Engg. & Techn
ITM University
Gwalior

Under the Guidance of

Mr. ~~Sohit~~ Agrawal

(Assistant Professor)

**DEPARTMENT OF CIVIL ENGINEERING
SCHOOL OF ENGINEERING & TECHNOLOGY
ITM UNIVERSITY GWALIOR, (M.P) INDIA**

2016-2020


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"CELEBRATING DREAMS"

Fly Ash Concrete with partial replacement of cement by fly ash and case study of modern types of concrete

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"CELEBRATING DREAMS"

Submitted by

BABLU KUMAR (BETNICE16006)

DEEPAK KUMAR (BETNICE16007)

HIMANSHU DANDOTIYA (BETNICE16008)

KULBHUSHAN SINGH (BETNICE16010)

Under the Guidance of

Mr. Sameer Shrivastava

(Assistant Professor)


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School of Engg. & Techn
ITM University
Gwalior

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SCHOOL OF ENGINEERING & TECHNOLOGY

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"CELEBRATING DREAMS"

**Partial Replacement of Sand with waste saw dust in
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DISSERTATION

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IN

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"CELEBRATING DREAMS"

Submitted by

Mrinal Priyadarshani (BETNICE16006)

Munendra Parihar (BETNICE16007)

Nilesh Kumar (BETNICE16008)

Prafull Mudgal (BETNICE16010)

Under the Guidance of

Dr. Mukesh Pandey

(Assistant Professor)

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Gwalior

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SCHOOL OF ENGINEERING & TECHNOLOGY
ITM UNIVERSITY GWALIOR, (M.P) INDIA
2016-2020**

Total Number of Industrial Trainings in UG

Industrial Trainings	Program	Total Number of students Involved in Industrial Training
	B.Tech-CE	21

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	ABHAY SHARMA	VII	Staad Pro	Cepta Infotech	45 Days
2	ANMOL GANGIL	VII	Staad Pro	Cepta Infotech	45 Days
3	ARCHIT SHIVAM	VII	Staad Pro	Cepta Infotech	45 Days
4	ASHUTOSH SHARMA	VII	Staad Pro	Cepta Infotech	45 Days
5	AYUSH CHAUHAN	VII	Staad Pro	Cepta Infotech	45 Days
6	BHUSHANKUMAR SAH	VII	Staad Pro	Cepta Infotech	45 Days
7	HARIPRAPANN GOSWAMI	VII	Staad Pro	Cepta Infotech	45 Days
8	HARSHVARDHAN KUMAR	VII	Staad Pro	Cepta Infotech	45 Days
9	KOPAL CHAUHAN	VII	Staad Pro	Cepta Infotech	45 Days
10	KUMARI ANJALI	VII	Staad Pro	Cepta Infotech	45 Days
11	PAWAN GHURAIYA	VII	Staad Pro	Cepta Infotech	45 Days
12	PIYUSH TYAGI	VII	Staad Pro	Cepta Infotech	45 Days
13	SAIF ALI	VII	Staad Pro	Cepta Infotech	45 Days

14	SHIVA GAUR	VII	Staad Pro	Cepta Infotech	45 Days
15	SURAJ RAJAWAT	VII	Staad Pro	Cepta Infotech	45 Days
16	MADHUNJAY KUMAR SAURABH	VII	Staad Pro	Cepta Infotech	45 Days
17	BAJRANG SINGH SIKARWAR	V	AutoCAD 2018	Udemy	30 Days
18	CHIRAG GUPTA	V	AutoCAD 2018	Udemy	30 Days
19	HABU APANG	V	AutoCAD 2018	Udemy	30 Days
20	ROHIT DANDOTIYA	V	AutoCAD 2018	Udemy	30 Days
21	SANJU PRAJAPATI	V	AutoCAD 2018	Udemy	30 Days


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Sample of Certificates



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School of Engg. & Techn
ITM University
Gwalior

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

Omveer Singh
Dr. Omveer Singh
REGISTRAR
ITM University
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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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