

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY
SYLLABUS STRUCTURE
B. Tech. (Civil Engineering)

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SYLLABUS STRUCTURE
B. Tech. (Civil Engineering)

DISTRIBUTION OF SUBJECT GROUPS

- 1 Basic Science Courses (BSC)
- 2 Engineering Science Courses (ESC)
- 3 Humanities & Social Science Including Management Courses (HSSMC)
- 4 Professional Core Courses (PCC)
- 5 Professional Elective Courses (PEC)
- 6 Open Elective Courses
- 7 Seminar/Project/Internship/Industrial Training
- 8 Mandatory Courses

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DISTRIBUTION OF COURSES IN SUBJECT GROUPS

**1) HUMANITIES & SOCIAL SCIENCE INCLUDING MANAGEMENT
COURSE(HSSMC)**

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		HSSMC1	Professional Communication	2	-	2	3
2		HSSMC2	Elective foundation course in humanities	3	-	-	3
3		HSSMC3	Presentation and report Writing	1	-	-	1
4		HSSMC4	Social Innovation	-	1	2	2
5		HSSMC5	Foreign language (German / Japanese/ Russian) (Non credit)	1	-	-	-
6		HSSMC6	Engineering Exploration	-	-	4	2
			TOTAL				11

2) BASIC SCIENCE COURSES (BSC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		BSC1	Applied Mathematics-I	3	1	-	4
2		BSC2	Applied Physics	3	-	2	4
3		BSC3	Applied Chemistry	3	-	2	4
4		BSC4	Applied Mathematics -II	3	1	-	4
5		BSC5	Probability and statistics	2	2	-	4
			TOTAL				20

3) ENGINEERING SCIENCE COURSES (ESC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		ESC1	Computer Programming in C	3	-	2	4
		ESC2	Engineering Drawing	2	-	4	4

2		ESC3	Object Oriented Programming	3	-	2	4
		ESC4	Engineering Mechanics	3	-	2	4
3		ESC5	Applied mechanics	3	-	2	4
4		ESC6	Fundamentals of Electronics and Electrical	3	-	2	4
		ESC7	Workshop Practice Lab-I	-	-	2	1
5		ESC8	Workshop Practice Lab-II	-	-	2	1
			TOTAL				26

4) PROFESSIONAL CORE COURSES (PCC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		PCC1	Fluid mechanics	2	-	2	3
2		PCC2	Engineering geology	2	-	2	3
3		PCC3	Engineering surveying	3	-	2	4
4		PCC4	Solid mechanics	2	1		3
5		PCC5	Hydraulics and hydraulic Machinery	3	-	2	4
6		PCC6	Building planning and design	2	-	2	3
7		PCC7	Water resource engineering	2	1	-	3
8		PCC8	Concrete Technology	2	-	2	3
9		PCC9	Advanced surveying	2	-	2	3
10		PCC10	Soil Mechanics	2	1	2	4
11		PCC11	Design of Steel Structures	2	1	-	3
12		PCC12	Estimating and contracts	3	-	-	3
13		PCC14	Waste management and pollution control	2	1	-	3
14		PCC15	Design of concrete structures	2	1	-	3
15		PCC16	Engineering economics and valuation	3	1	-	4
16		PCC17	Construction Project management	3	1	-	4
17		PCC18	Earthquake engineering	3	-	-	3
18		PCC19	Design of concrete structures II	3	-	-	3
			TOTAL				59

5) PROFESSIONAL ELECTIVE COURSES (PEC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		PEC 1	Building Materials & Construction	2	-	2	3
			Advanced Building materials				
2		PEC 2	Structural Analysis	2	-	-	2
			Structural Design & Drawing				
3		PEC 3	Water Supply and Treatment Technology	3	-	2	4
			Industrial Wastewater Treatment				
4		PEC 4	Professional Electives 4	2	1	-	3
		1	Construction Equipment and Techniques				
		2	Structural Geology				
		3	Computational Methods and Optimization Techniques				
		4	Structural Mechanics				
5		PEC5	Professional Elective 5	2	1	-	3
		1	Design of Hydraulic Structure				
		2	Advanced Surveying				
		3	Concrete Engineering				
6		PEC 6	Professional Elective 6	3	-	-	3
		1	Advanced Structural Analysis				
		2	Computer Applications in structural Engineering				
		3	Maintenance and rehabilitation of structures				
		4	Advanced Water and Waste Water Treatment				
		5	Bridge and Airport Engineering				
7		PEC 7	Field Studies	-	1	-	1
8		PEC8	Professional Elective 8	3	-	-	3
		1	Design of Concrete Bridges				
		2	Advanced Structural				

			Design				
		3	Construction Practices				
		4	Design of Unreinforced Masonry Structures				
		5	Town and Country Planning				
		6	Remote Sensing and GIS				
		7	Municipal Solid Waste Management				
			TOTAL				22

6) OPEN ELECTIVE COURSES (OEC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		OEC1	Elective –I	3	-	-	3
		1	Energy Engineering				
		2	Electrical Machine Technology				
		3	Electronic System				
		4	Software Engineering and Database Essentials				
		5	The Joy of Computing using Python				
2		OEC2	Elective –II	3	-	-	3
		1	Theory of structures				
		2	Joining Technology				
		3	Mechanical Power Transmission				
		4	Biomedical Instrumentation				
		5	Artificial Intelligence and Machine learning				
		6	Modern Application Development				
3		OEC3	Elective –III	3	-	-	3
		1	Finite Element Method				
		2	Concrete Engineering & Technology				
		3	Computational Methods				

			and Optimization Techniques				
		4	Automobile Engineering				
		5	Industrial Automation				
		6	Cyber Physical System				
		7	Business Intelligence				
		8	Data Visualization and Interpretation				
			TOTAL				9

7) SEMINAR/ MINI PROJECT/ PROJECT/ INTERNSHIP/ INDUSTRIAL TRAINING

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		MP	Building Planning & Design	-	-	2	1
2		MP	Mini Project –Estimating and Costing	-	-	2	1
3		MP	Mini Project – Structural Steel Design and Drawing	-	-	2	1
4		MP	Mini Project- Construction Project Management	-	-	2	1
5		MP	Mini Project- Concrete Structure Design and Drawings	-	-	4	2
6		MP	Project –I	-	-	8	4
7		MP	Project –II	-	-	16	8
			TOTAL				18

8) MANDATORY COURSES (MC)

Sr. No.	Course Code	Course Type	Name Of Course	Teaching Scheme per week			
				L	T	P	Credits
1		MC1	Democracy, elections and good Governance	2	-	-	NC
2		MC2	Environmental Studies	2	-	-	NC

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SUMMARY OF DISTRIBUTION OF COURSES IN ALL SEMESTER

Sr.No.	Category	No. of Subject in each category	Suggested Breakup of credit of AICTE	Total
1	Humanities & Social Science Including Management Courses (HSSMC)	6	12	11
2	Basic Science Courses (BSC)	6	26	20
3	Engineering Science Courses (ESC)	5	29	26
4	Professional core courses (PCC)	18	47	59
5	Professional Elective Courses (PEC)	8	23	22
6	Open Elective Courses (OEC)	3	11	9
7	Seminar/ Mini Project/ Project/ Internship/ Industrial training	7	12	18
8	Mandatory Courses	2	NC	NC
	Total	53	160	165

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Semester wise Distribution of Courses

No of Courses	Semester							
	I	II	III	IV	V	VI	VII	VIII
1	Applied Mathematics – I	Applied Mathematics – II	Probability and Statistics	Applied Mathematics	Soil Mechanics	Estimating and Contracts	Engineering Economics and Valuation	Project -II
2	Applied Chemistry	Applied Physics	Fluid Mechanics	Hydraulics and Hydraulics Machinery	Water Supply and Treatment Technology	Foundation Engineering	Construction Project Management	Field Studies
3	Computer Programming in C	Object Oriented Programming	Building Materials and Construction	Building Planning and Design	Design of Steel Structures	Waste Management and Pollution Control	Earthquake Engineering	Professional Elective 2
4	Engineering Mechanics	Engineering Drawing	Engineering Geology	Water Resources Engineering	Environmental Engineering Laboratory	Design of Concrete Structures	Design of Concrete Structures II	Value Added Professional Courses
5	Fundamentals of Electronics and Electrical	Engineering Exploration	Engineering Surveying	Structural Analysis	Soil Mechanics Laboratory	Mini Project 2 Estimating and Costing	Mini Project Construction Project Management	Value Added Life-Skill Courses

6	Social Innovation	Professional Communication	Solid Mechanics	Concrete Technology	Elective Foundation Course in Humanities	Mini Project 3 Structural Steel Design and Drawing	Mini Project Concrete Structure Design and Drawing	
7	Applied Mathematics – I	Applied Mathematics – II	Fluid Mechanics Lab	Hydraulics Lab	Professional Elective 1	Professional Elective 2	Project – I	
8	Applied Chemistry Lab.	Applied Physics Lab.	Building Materials and Construction Lab	Mini Project 1- Building Planning and Design	Open Elective 1	Open Elective 2	Professional Elective 1	
9	Computer Programming in C lab	Object Oriented Programming Lab.	Engineering Geology Lab	Advanced Surveying Lab	Value Added Professional Courses	Value Added Professional Courses	Open Elective 3	
10	Engineering Mechanics Lab.	Engineering Drawing Lab	Surveying Lab	Material Testing Lab	Value Added Life-Skill Courses	Value Added Life-Skill Courses	Value Added Professional Courses	
11	Fundamentals of Electronics and Electrical lab	Professional Communication Lab	Environmental Sciences	Presentation and Report Writing			Value Added Life-Skill Courses	
12	Workshop Practice I	Workshop Practice II	Value Added Professional Courses	Value Added Professional Courses				
13	Foreign language (German / Japanese/ Russian) (Non credit)		Value Added Life-Skill Courses	Value Added Life-Skill Courses				
Total	23	22	20	21	20	20	27	12
						TOTAL		165

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SEMESTERWISE CREDITS & MARKS

SEM	CREDITS	NO. OF SUBJECT	TOTAL MARKS
I	23	13	825
II	22	12	775
III	20	13	1150
IV	21	13	1200
V	20	10	800
VI	20	10	800
VII	27	11	900
VIII	12	05	300
TOTAL	165	87	6750

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY
SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (CIVIL ENGINEERING)
SEMESTER- I (Chemistry Group)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Fundamental of electronics and Electrical	3	-	-	03	100						
6			Social Innovation	-	1	2	02	50						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non Credit)	1	-	-	-	100						
14			Democracy, Election & Good Governance (Non Credit Mandatory Course)*											
			Total	16	2	12	23	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (CIVIL ENGINEERING)
SEMESTER- II

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Engineering Exploration	-	-	4	02	100						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Object oriented Programming Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	-	-	2	01	50						
			Total	13	1	16	22	775						

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SCHEME OF TEACHING AND EXAMINATION
SECOND YEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- III

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)						
				L	T	P	Credits		Theory			Practical			
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing	
1			Probability and Statistics	2	2	0	4	100							
2			Fluid Mechanics	2	0	0	2	100							
3			Professional Elective-1	2	0	0	2	100							
4			Engineering Geology	2	0	0	2	100							
5			Engineering Surveying	3	0	0	3	100							
6			Solid Mechanics	2	1	0	3	100							
7			Fluid Mechanics Lab	0	0	2	1	100							
8			Building Materials and Construction Lab	0	0	2	1	100							
9			Engineering Geology Lab	0	0	2	1	100							
10			Surveying Lab	0	0	2	1	100							
11			Environmental Sciences	2	0	0	-	50							
12			Value Added Professional Courses #												
13			Value Added Life-Skill Courses #												
			Total	15	3	8	20	1150							
				26 Hrs/Week											

Sr.No.	Course Code	Course Name
Professional Elective 1		
1		Building Materials & Construction
2		Advanced Building Materials

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) *Environmental Studies project evaluation and theory examination will be conducted at the end of the year (along with Sem IV end examination)

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SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

EPE: External Practical Examination

IOE: Internal Oral Evaluation

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SECOND YEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- IV

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics	2	2	0	4	100						
2			Hydraulics and Hydraulics Machinery	3	0	0	3	100						
3			Building Planning and Design	2	0	0	2	100						
4			Advanced Surveying	2	0	0	2	100						
5			Professional Elective-2	2	0	0	2	100						
6			Concrete Technology	2	0	0	2	100						
7			Hydraulics Lab	0	0	2		100						
8			Mini Project 1- Building Planning and Design	0	0	2	1	100						
9			Advanced Surveying Lab	0	0	2	1	100						
10			Material Testing Lab	0	0	2	1	100						
11			Presentation and Report Writing	1	0	0	1	100						
12			Building Planning and Design Lab	0	0	2	1	100						
13			Value Added Professional Courses #											
14			Value Added Life-Skill Courses #											
			Total	14	2	10	20							
				26 Hrs/Week				1200						

Sr.No.	Course Code	Course Name
Professional Elective 2		
1	CC	Structural Analysis
2		Structural Design & Drawing

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2) SEE will be conducted for 100 marks and converted to 50 marks.

3) * Environmental Studies project evaluation & theory examination will be conducted at the end of the year (along with Sem IV end examination)

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SCHEME OF TEACHING AND EXAMINATION
THIRD YEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- V

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Soil Mechanics	2	1	0	3	100						
2			Professional Elective-3	3	0	0	3	100						
3			Design of Steel Structures	2	1	0	3	100						
4			Professional Elective-3 Lab	0	0	2	1	100						
5			Soil Mechanics Laboratory	0	0	2	1	100						
6			Elective Foundation Course in Humanities	3	0	0	3	100						
7			Professional Elective 4	2	1	0	3	100						
8			Open Elective 1	3	0	0	3	100						
9			Value Added Professional Courses #											
10			Value Added Life-Skill Courses #											
			Total	15	3	4	20	800						
				22 Hrs/Week										

Course List for T.Y. B.Tech. (Civil Engineering)

Sr.No.	Course Code	Course Name
Elective Foundation Course in Humanities		
1	CC	Law and Engineering
2		Foreign Language-German
3		Human Relations at Work
Professional Elective 4		
1	CC	Construction Equipment and Techniques
2		Structural Geology
3		Computational Methods and Optimization Techniques
4		Structural Mechanics
Open Elective 1		
1	CC	Energy Engineering
2		Electrical Machine Technology
3		Electronic Systems
4		Software Engineering and Database Essentials
5		The Joy of Computing using Python
Professional Elective 3		
1	CC	Water Supply & Treatment Technology
2		Industrial Waste water Treatment

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THIRD YEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- VI
Course List for T.Y. B.Tech. (Civil Engineering)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Estimating and Contracts	3	0	0	3	100						
2			Water Resource Engineering	2	1	0	3	100						
3			Waste Management and Pollution Control	2	1	0	3	100						
4			Design of Concrete Structures	2	1	0	3	100						
5			Mini Project 2 Estimating and Costing	0	0	2	1	100						
6			Mini Project 3 Structural Steel Design and Drawing	0	0	2	1	100						
7			Professional Elective 5	2	1	0	3	100						
8			Open Elective 2	3	0	0	3	100						
9			Value Added Professional Courses #											
10			Value Added Life-Skill Courses #											
			Total	14	4	4	20	800						
				22 Hrs/Week										

Sr.No.	Course Code	Course Name
Professional Elective 2		
1	CC	Design of Hydraulic Structure
2		Advanced Surveying
3		Concrete Engineering

Open Elective 5		
1	CC	Theory of Structures
2		Joining Technology
3		Mechanical Power Transmission
4		Renewable Energy
5		Biomedical Instrumentation
6		Artificial Intelligence and Machine Learning
7		Modern Application Development

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D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY
SCHEME OF TEACHING AND EXAMINATION
FINAL YEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- VII
Course List for Final Year B.Tech. (Civil Engineering)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Engineering Economics and Valuation	3	1	0	4	100						
2			Construction Project Management	3	1	0	4	100						
3			Earthquake Engineering	3	0	0	3	100						
4			Design of Concrete Structures II	3	0	0	3	100						
5			Mini Project 4- Construction Project Management	0	0	2	1	100						
6			Mini Project5- Concrete Structure Design and Drawing	0	0	4	2	100						
7			Project – I	0	0	8	4	100						
8			Mini Project 4- Construction Project Management	0	0	2	3	100						
9			Open Elective 3	3	0	0	3	100						
10			Value Added Professional Courses #											
11			Value Added Life-Skill Courses #											
			Total	18	2	14	27	900						
				34 Hrs/Week										

Sr.No.	Course Code	Course Name
Professional Elective 6		
1	CC	Advanced Structural Analysis
2		Computer Applications in Structural Engineering
3		Maintenance and Rehabilitation of Structures
4		Advanced Water and Wastewater Treatment
5		Bridge and Airport Engineering

Open Elective 3		
1	CC	Finite Element Method
2		Concrete Engineering and Technology
3		Computational Methods and Optimization Techniques
4		Automobile Engineering
5		Industrial Automation
6		Cyber Physical Systems
7		Business Intelligence
8		Data Visualization and Interpretation

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

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EPE: External Practical Examination

SEE: Semester End Evaluation

IOE: Internal Oral Evaluation

IPE: Internal Practical Evaluation

EOE: External Oral Examination

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY
SCHEME OF TEACHING AND EXAMINATION
FINALYEAR B. TECH. (CIVIL ENGINEERING) SEMESTER- VIII
Course List for Final Year B.Tech. (Civil Engineering)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
				L	T	P	Credits		Theory			Practical		
									Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Project -II	0	0	16	8	100						
2			Field Studies	0	1	0	1	100						
3			Professional Elective 7	3	0	0	3	100						
4			Value Added Professional Courses #											
5			Value Added Life-Skill Courses #											
			Total	3	1	16	12	300						
				20 Hrs/Week										

Sr.No.	Course Code	Course Name
Professional Elective 7		
1	CC	Design of Concrete Bridges
2		Advanced Structural Design
3		Construction Practices
4		Design of Unreinforced Masonry Structures
5		Town and Country Planning
6		Remote Sensing and GIS
7		Municipal Solid Waste Management

CSE: Continuous Semester Evaluation
EPE: External Practical Examination

SEE: Semester End Evaluation
IOE: Internal Oral Evaluation

IPE: Internal Practical Evaluation
EOE: External Oral Examination

Field Studies:

In different govt. /private/semi govt./NGO's industries.

Faculties do keep close watch with industry officials regarding performance of students during training.

Industries select students through campus interviews.

In-plant Training for a short period of time in relevant industry helps gain the knowledge and experience of the work culture. In-plant Training by reputed organizations either MNCs or organized sectors provide an industrial exposure to the students as well as helps develop their career in high tech industrial requirements.