

SCHEME OF INSTRUCTION & EXAMINATION
B.E. V - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 501 CE	Reinforced Cement Concrete	3	1	-	4	30	70	3	3
2	PC 502 CE	Theory of Structures – I	3	1	-	4	30	70	3	3
3	PC 503 CE	Concrete Technology	3	-	-	3	30	70	3	3
4	PC 504 CE	Hydraulic Machines	3	-	-	3	30	70	3	3
5	PC 505 CE	Transportation Engg. – I	3	-	-	3	30	70	3	3
6	PC 506 CE	Environmental Engineering	3	-	-	3	30	70	3	3
7	PC 507 CE	Water Resource Engg. – I	3	-	-	3	30	70	3	3
8	PE-I	Professional Elective – I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
9	PC 551 CE	Fluid Mechanics Lab – II	-	-	2	2	25	50	3	1
10	PC 552 CE	Transportation Engineering Lab	-	-	2	2	25	50	3	1
11	PC 553 CE	Environmental Engineering Lab	-	-	2	2	25	50	3	1
			24	02	06	32	315	710		27

Professional Elective – I		
S. No.	Course Code	Course Title
1	PE 501 CE	Advanced Concrete Technology
2	PE 502 CE	Hydropower Engineering
3	PE 503 CE	Infrastructure Engineering
4	PE 504 CE	Soft Computing Skills in CE

PC: Professional Course **PE:** Professional Elective

L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing

CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

Note:

1. Each contact hour is a Clock Hour
2. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 601 CE	Steel Structures	3	1	-	4	30	70	3	3
2	PC 602 CE	Structural Engineering Design & Detailing – I (Concrete)	3	1	-	4	30	70	3	3
3	PC 603 CE	Theory of Structures – II	3	1	-	4	30	70	3	3
4	PC 604 CE	Water Resource Engineering II	3	-	-	3	30	70	3	3
5	PC 605 CE	Soil Mechanics	3	-	-	3	30	70	3	3
6	PC 606 CE	Transportation Engineering – II	3	-	-	3	30	70	3	3
7	PE-II	Professional Elective – II	3	-	-	3	30	70	3	3
8	OE-I	Open Elective – I	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
9	PC 651 CE	Soil Mechanics Lab	-	-	2	2	25	50	3	1
10	PC 652 CE	Concrete Technology Lab	-	-	2	2	25	50	3	1
11	PW 661 CE	Survey Camp	-	-	-	-	-	50	3	2
Total			24	03	04	31	290	710	-	28

PC: Professional Course **PE:** Professional Elective **OE:** Open Elective **PW:** Project Work
L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing
CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

Note -1:

1. Each contact hour is a Clock Hour
2. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment

Note-2:

- * The students have to undergo a Summer Internship of four weeks duration after VI semester and credits will be awarded in VII semester after evaluation.
- ** Subject is not offered to the students of Civil Engineering Department

Open Elective-I:		
S.No	Course Code	Course Title
1	OE601CE	Disaster Management**
2	OE602CE	Geo Spatial Techniques**
3	OE601CS	Operating Systems
4	OE602CS	OOP using Java
5	OE601IT	Database Systems
6	OE601EC	Principles of Embedded Systems
7	OE602EC	Digital System Design using HDL Verilog
8	OE601EE	Reliability Engineering
9	OE602EE	Basics of Power Electronics
10	OE601ME	Industrial Robotics
11	OE602ME	Material Handling
12	OE632AE	Automotive Safety & Ergonomics

Professional Elective – II		
S.No.	Course Code	Course Title
1	PE 601 CE	Earthquake Resistant Design of Buildings
2	PE 602 CE	Wastewater Treatment
3	PE 603 CE	Ground Improvement Techniques
4	PE 604 CE	Watershed Management

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 701 CE	Str. Engg. Design and Drawing – II (Steel)	3	1	-	4	30	70	3	3
2	PC 702 CE	Estimation Costing & Specifications	3	1	-	4	30	70	3	3
3	PC 703 CE	Finite Element Techniques	3	-	-	3	30	70	3	3
4	PC 704 CE	Prestressed Concrete	3	-	-	3	30	70	3	3
5	PC 705 CE	Foundation Engineering	3	-	-	3	30	70	3	3
6		Open Elective – II	3	-	-	3	30	70	3	3
7		Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC 751 CE	Computer Application Lab	-	-	2	2	25	50	3	1
9	PW 761 CE	Project Work – I	-	-	4	4	50	-	-	2
10	SI 762 CE	Summer Internship	-	-	-	-	50	-	-	2
			21	02	06	29	335	540		26

Open Elective – II			Open Elective – III		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	OE 771 CE**	Green Building Technologies	1	OE 781 CE**	Road Safety Engineering
2	OE 772 CS	Data Science Using R Programming	2	OE 782 IT	Software Engineering
3	OE 773 EC	Fundamentals of IoT	3	OE 783 EC	Principles of Electronic Communications
4	OE 774 EE	Non-Conventional Energy Sources	4	OE 784 EE	Illumination and Electric Traction systems
5	OE 775 ME	Entrepreneurship	5	OE 785 ME	Mechatronics

PC: Professional Course

PE: Professional Elective

L: Lectures

T: Tutorials

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note: 1) Each contact hour is a Clock Hour

2) The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

Note-2: * The students have to undergo a Summer Internship of four weeks' duration after VI semester and credits will be awarded in VII semester after evaluation.

** Subject is not offered to the students of Civil Engineering Department.

**SCHEME OF INSTRUCTION & EXAMINATION
B.E. VIII - SEMESTER
(CIVIL ENGINEERING)**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 801 CE	Construction Management & Technology	3	-	-	3	30	70	3	3
2		Professional Elective – III	3	-	-	3	30	70	3	3
3		Professional Elective – IV	3	-	-	3	30	70	3	3
4		Professional Elective – V	3	-	-	3	30	70	3	3
5	MC 901 EG	Gender Sensitization	3	-	-	3	30	70	3	-
Practical/ Laboratory Courses										
6	PW 961 CE	Project Work – II	-	-	16	16	50	100	-	8
7		Mandatory Course	-	-	3	3	50	-	3	-
			15	-	19	34	250	450		20

Professional Elective – III			Professional Elective – IV		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE 821 CE	Retrofitting and Rehabilitation of Structures	1	PE 831 CE	Structural Dynamics
2	PE 822 CE	Computer Aided Analysis and Design	2	PE 832 CE	Design with Geosynthetics
3	PE 823 CE	Applied Hydrology	3	PE 833 CE	Groundwater Management
4	PE 824 CE	Introduction to Climate Change	4	PE 834 CE	Intelligent Transportation Systems
Professional Elective – V			Mandatory Course		
1	PE 841 CE	Prefabrication Engineering	1	MC 951 SP	Yoga Practice
2	PE 842 CE	Principles of Green Building Practices	2	MC 952 SP	NSS
3	PE 843 CE	Advanced Reinforced Concrete Design	3	MC 953 SP	Sports
4	PE 844 CE	Traffic Engineering & Infrastructure Design			

PC: Professional Course

PE: Professional Elective

L: Lectures

T: Tutorials

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note: 1) Each contact hour is a Clock Hour

2) The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment