

FACULTY OF ENGINEERING
Scheme of Instruction & Examination
(CBCS Curriculum for the Academic Year 2019-2020)

and
Syllabi
B.E. VII and VIII Semester
of
Four Year Degree Programme
In

Civil Engineering

(With effect from the academic year 2019– 2020)
(As approved in the faculty meeting held on 25-06-2019)



Issued by
Dean, Faculty of Engineering
Osmania University, Hyderabad – 500 007
2019

[Signature]
27/03/2019

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Banjara Hills, Road No.3
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HEAD
CIVIL ENGINEERING DEPT.
Muffakham Jah College of Engg. & Tech.,
Road No:3, Banjara Hills,
Hyderabad-500 034.

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

L: Lectures

T: Tutorials

CIE: Continuous Internal Evaluation

PE: Professional Elective

P: Practical

D: Drawing

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.

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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

L: Lectures

CIE: Continuous Internal Evaluation

T: Tutorials

PE: Professional Elective

P: Practical

SEE: Semester End Examination (Univ. Exam)

D: Drawing

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

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FACULTY OF ENGINEERING
Scheme of Instruction & Examination
(AICTE Model Curriculum for the Academic Years 2020-2024)

and
Syllabi

B.E. III to IV Semester

of

Four Year Degree Programme

in

Civil Engineering

(With effect from the academic year 2020–2021)

(As approved in the faculty meeting held on 04.01.2021)



Issued by

Dean, Faculty of Engineering

Osmania University, Hyderabad – 500 007

04.01.2021

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03/03/2021
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For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) III – SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/Drg	CIE	SEE	
Theory Courses								
1	BS 205 MT	Mathematics - III	3	1	-	30	70	4
2	ES 301 EE	Basic Electrical Engineering	3	-	-	30	70	3
3	PC 401 CE	Building Materials and Construction	3	-	-	30	70	3
4	PC 402 CE	Solid Mechanics	3	-	-	30	70	3
5	PC 403 CE	Fluid Mechanics	3	-	-	30	70	3
6	PC 404 CE	Surveying and Geomatics	3	-	-	30	70	3
Practical/Laboratory Courses								
7	PC 451 CE	Fluid Mechanics Laboratory	-	-	2	25	50	1
8	PC 452 CE	Surveying Laboratory	-	-	2	25	50	1
9	ES 454 CE	Building Drawing & Drafting Laboratory	-	-	2 x 3 hrs	25	50	3
			10	1	10			24

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23/03/2024

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SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) IV – SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/Drg	CIE	SEE	
Theory Courses								
1	HS 103CM	Finance and Accounting	3	-	-	70	70	3
2	HS102 BG	Effective Technical Communication in English	2	-	-	30	70	2
3	ES 304 CE	Engineering Geology	3	-	-	30	70	3
4	PC 405CE	Mechanics of Materials	3	-	-	30	70	3
5	PC 406CE	Hydraulic Engineering	3	-	-	30	70	3
6	PC 407 CE	Design of Reinforced Concrete Structures	3	-	-	30	70	3
7	PC 408 CE	Hydrology	3	-	-	30	70	3
Practical/Laboratory Courses								
8	ES 355 CE	Engineering Geology Laboratory	-	-	2	25	50	1
9	PC 453 CE	Mechanics of Materials Laboratory	-	-	2	25	50	1
10	PC 454 CE	Hydraulic Engineering Laboratory	-	-	2	25	50	1
		Survey Camp *						
			20	-	6			23

* Survey Camp is to be conducted after the IV Semester in the Summer Vacation. To be evaluated in V Sem

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FACULTY OF ENGINEERING
Scheme of Instruction & Examination
(AICTE Model Curriculum for the Academic Year 2020-2021) -OLD
and
Syllabi
B.E. V and VI-Semester
of
Four Year Degree Programme
in
Civil Engineering
(With effect from the academic year 2020–2021)
(As approved in the faculty meeting held on 15-02-2020)



Issued by
Dean, Faculty of Engineering
Osmania University, Hyderabad
2020

23/03/2022
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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	Pr/Drg	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC321CE	Structural Analysis - I	3	1	-	3	30	70	3	3
2	PC322CE	Hydraulic Engineering	3	-	-	3	30	70	3	3
3	PC323CE	Structural Engineering Design and Detailing	2	1	-	3	30	70	3	3
4	PC324CE	Geotechnical Engineering	2	1	-	3	30	70	3	3
5	PC325CE	Hydrology & Water Resources Engineering	2	1	-	3	30	70	3	3
6	PC326CE	Transportation Engineering	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC351CE	Fluid Mechanics Lab	-	-	2	2	25	50	3	1
8	PC352CE	Geotechnical Engineering Lab	-	-	2	2	25	50	3	1
9	PC353CE	Transportation Engineering Lab	-	-	2	2	25	50	3	1
			15	03	06	24	345	780		21


PC: Professional Course

L: Lectures T: Tutorial Pr : Practical Drg: Drawing

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

Note:

- Each contact hour is a Clock Hour.
- The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.


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**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	Pr/Dr/g	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC331CE	Environmental Engineering	3	-	-	3	30	70	3	3
2	PC332CE	Estimation and Specifications	3	-	-	3	30	70	3	3
3		Professional Elective – 1	3	-	-	3	30	70	3	3
4		Professional Elective – 2	3	-	-	3	30	70	3	3
5		Professional Elective – 3	3	-	-	3	30	70	3	3
6	OE	Open Elective – 1	3	-	-	3	30	70	3	3
7		Open Elective – 2	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC361CE	Environmental Engineering Lab	-	-	2	2	25	50	3	1
9	PC362CE	Computer Aided Civil Engineering Drafting, Analysis & Design Lab	-	-	2	2	25	50	3	1
10	PC363CE	Hydraulics Laboratory	-	-	2	2	25	50	3	1
			21	-	06	27	285	640		24

Professional Elective – 1			Professional Elective – 3		
S. No.	Course code	Course title	S. No.	Course code	Course title
1	PE301CE	Design of Hydraulic Structures	1	PE309CE	Steel Structures
2	PE302CE	Structural Analysis –II	2	PE310CE	Ground Water Engineering
3	PE303CE	Foundation Engineering	3	PE311CE	Geotechnical Design
4	PE304CE	Railway And Airport Engineering	4	PE312CE	Environmental Impact Assessment of Transportation Projects

Professional Elective – 2					
S. No.	Course code	Course title			
1	PE305CE	Design of Concrete Structures-I			
2	PE306CE	Traffic Engineering and Management			
3	PE307CE	Sustainable Construction Methods			
4	PE308CE	Open Channel Flow & River Engineering			


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