

SARALA BIRLA UNIVERSITY RANCHI



Established under the Sarala Birla University Act 2017 Govt. of Jharkhand as per Section 2(f) of UGC Act. 1956

CURRICULUM FOR

B.Tech

**in
Civil Engineering**

(Based on UGC & AICTE- CBCS)

Effective from 2021-22

DEFINITION OF CREDIT

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credit
2 Hours Practical (Lab)/week	1 credit
4 Hours Practical (Lab)/week	2 credits

COURSE CODE AND DEFINITION

Course Code	Definition
BSC	Basic Science courses
ESC	Engineering Science courses
HSMC	Humanities and Social Sciences including Management courses
PCC-CE	Professional core courses
PEC-CE	Professional Elective courses
OEC	Open Elective Courses
MC	Mandatory Courses
MOOC's	Massive Open Online Courses
CE-P1	Project stage-I
CE-P2	Project stage-II
CE-P3	Project stage-III

Structure of Civil Engineering (B.TECH.)

(Break up of Credits)

1	Humanities and Social Sciences including Management courses	12
2	Basic Science courses	23
3	Engineering Science courses including workshop,drawing, basics of electrical/mechanical/computer etc	33
4	Professional Core courses	67
5	Professional Elective courses relevant to chosen specialization/branch	29
6	Open subjects – Electives from other technical and /or emerging subjects	9
7	Mandatory Courses[Environmental Sciences]	2
8	Project work, seminar and internship in industry or elsewhere	16
	Total Credits	191

CREDITS DISTRIBUTION (SEMESTER-WISE AND COURSE-WISE)

Semester	HSMC	BSC	ESC	PCC	PEC	OEC	PROJECT	MC	Total Credit Semester-wise
1st	3	9.5	13	0	0	0	0	0	25.5
2nd	3	9.5	13	0	0	0	0	2	27.5
3rd	2	4	5	14	0	0	0	0	25
4th	4	0	0	15	4	0	0	0	23
5th	0	0	0	15	0	9	0	0	24
6th	0	0	2	13	9	0	2	0	26
7th	0	0	0	6	8	0	5	0	19
8th	0	0	0	4	8	0	9	0	21
Total Credit Course-wise	12	23	33	67	29	9	16	2	191
Total Credit								191	

HUMANITIES & SOCIAL SCIENCES INCLUDING MANAGEMENT COURSE

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	HSMC-101	English	3	0	0	3	I
2	HSMC-102	Technical Communication	2	0	0	2	II
3	HSMC-103	Technical Communication Lab	0	0	2	1	II
4	HSMC-104	French Through Communicative Approach-I	2	0	0	2	III
5	HSMC-105	French Through Communicative Approach-II	2	0	0	2	IV
6	HSMC-106	Organisational Behaviour	2	0	0	2	IV
Total Credit:						12	

BASIC SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	BSC-101	Chemistry	3	1	0	4	I
2	BSC-102	Chemistry Lab	0	0	3	1.5	I
3	BSC-103	Physics	3	1	0	4	II
4	BSC-104	Physics Lab	0	0	3	1.5	II
5	BSC-105	Mathematics-I	3	1	0	4	I
6	BSC-106	Mathematics-II	3	1	0	4	II
7	BSC-107	Mathematics-III	3	1	0	4	III
Total Credits:						23	

ENGINEERING SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours Per Week			Credits	Preferred Semester
			L	T	P		
1	ESC-101	Basic Electrical	3	1	0	4	I
2	ESC-102	Basic Electrical Lab	0	0	2	1	I
3	ESC-103	Introduction to Unix & C Programming	3	1	0	4	I
4	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	I
5	ESC-105	Engineering Graphics & Design	1	0	4	3	I
6	ESC-106	Basic Electronics	3	1	0	4	II
7	ESC-107	Basic Electronics Lab	0	0	2	1	II
8	ESC-108	Data Structures using C++	3	1	0	4	II
9	ESC-109	Data Structures using C++ Lab	0	0	2	1	II
10	ESC-110	Engineering Workshop Practices	1	0	4	3	II
11	ESC-111	Engineering Mechanics	3	1	0	4	III
12	ESC-112	Programming using MATLAB	0	0	2	1	III
13	ESC-113	Python Programming	1	0	2	2	III
Total Credit:						33	

PROFESSIONAL CORE COURSES (Sem III & IV)**Branch: Civil Engineering**

Sl. No.	Course Code	Course Title	Hours			Credit	Semester
			L	T	P		
1	PCC-CE-201	Strength of Material	3	1	0	4	III
2	PCC-CE-202	Strength of Material Lab	0	0	2	1	III
3	PCC-CE-203	Surveying & Levelling	3	1	0	4	III
4	PCC-CE-204	Surveying & Levelling Lab	0	0	2	1	III
5	PCC-CE-205	Engineering Geology	3	1	0	4	III
6	PCC-CE-206	Fluid Mechanics	3	1	0	4	IV
7	PCC-CE-207	Fluid Mechanics Lab	0	0	2	1	IV
8	PCC-CE-208	Materials Testing & Evaluation	3	1	0	4	IV
9	PCC-CE-209	Materials Testing & Evaluation Lab	0	0	2	1	IV
10	PCC-CE-210	Building Construction	3	1	0	4	IV
11	PCC-CE-211	Building Construction Lab	0	0	2	1	IV
Total						29	

PROFESSIONAL CORE COURSES (Sem V & VI)

Sl. No.	Course Code	Course Title	Hours			Credit	Semester
			L	T	P		
1	PCC-CE-301	Geotechnical Engineering-I	3	1	0	4	V
2	PCC-CE-302	Geotechnical Engineering Lab-I	0	0	2	1	V
3	PCC-CE-303	Hydraulic Engineering	3	1	0	4	V
4	PCC-CE-304	Hydraulic Engineering Lab	0	0	2	1	V
5	PCC-CE-305	Transportation Engineering	3	1	0	4	V
6	PCC-CE-306	Transportation Engineering Lab	0	0	2	1	V
7	PCC-CE-307	Structural Analysis -I	3	1	0	4	VI
8	PCC-CE-308	Structural Engineering Lab	0	0	2	1	VI
9	PCC-CE-309	Design of Concrete Structures-I	3	1	0	4	VI
10	PCC-CE-310	Environmental Engineering	3	1	0	4	VI
Total						28	

PROFESSIONAL CORE COURSES (Sem VII & VIII)

Sl. No.	Course Code	Course Title	Hours			Credit	Semester
			L	T	P		
1	PCC-CE-401	Hydrology & Water Resources Engineering	3	1	0	4	VII
2	PCC-CE-402	Concrete Structure Lab	0	0	2	1	VII
3	PCC-CE-403	Computer Aided Civil Engg. Drawing.	0	0	2	1	VII
4	PCC-CE-404	Construction Engineering & Management	3	1	0	4	VII
Total						10	

PROFESSIONAL ELECTIVE COURSES (Sem V & VI)

Branch: Civil Engineering

SL No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-CE-301	Disaster Preparedness & Planning Management	3:01:00	4	IV/VI
2	PEC-CE-302	Geotechnical Engineering-II	3:01:00	4	IV/VI
3	PEC-CE-303	Geotechnical Engineering Lab-II	0:00:02	1	IV/VI
4	PEC-CE-304	Engineering Economics, Estimation & Costing	3:01:00	4	IV/VI
5	PEC-CE-305	Instrumentation & Sensor Technologies for Civil Engineering Applications	3:01:00	4	IV/VI
6	PEC-CE-306	Railway Engineering	3:01:00	4	IV/VI
7	PEC-CE-307	Open Chanel Flow	3:01:00	4	IV/VI

PROFESSIONAL ELECTIVE COURSES (Sem VII & VIII)

Branch: Civil Engineering

1	PEC-CE-401	Design of Concrete Structures-II	3:01:00	4	VII/VIII
2	PEC-CE-402	Structural Analysis-II	3:01:00	4	VII/VIII
3	PEC-CE-403	Design of Hydraulic Structure	3:01:00	4	VII/VIII
4	PEC-CE-404	Traffic Engineering & Management	3:01:00	4	VII/VIII
5	PEC-CE-405	Port & Harbour Engineering	3:01:00	4	VII/VIII
6	PEC-CE-406	Prestressed Concrete	3:01:00	4	VII/VIII
7	PEC-CE-407	Bridge Engineering	3:01:00	4	VII/VIII
8	PEC-CE-408	Design of Steel Structures	3:01:00	4	VII/VIII
9	PEC-CE-409	Foundation Engineering & Geotechnical Design	3:01:00	4	VII/VIII
10	PEC-CE-410	Solid & Hazardous Waste Management	3:01:00	4	VII/VIII
11	PEC-CE-411	Earthquake Engineering	3:01:00	4	VII/VIII
12	PEC-CE-412	Structural Dynamics	3:01:00	4	VII/VIII
13	PEC-CE-413	Water & Air Quality Modelling	3:01:00	4	VII/VIII
14	PEC-CE-414	Air & Noise Pollution and Control	3:01:00	4	VII/VIII
15	PEC-CE-415	Irrigation Engineering	3:01:00	4	VII/VIII
16	PEC-CE-416	Masonry Structures	3:01:00	4	VII/VIII

OPEN ELECTIVE COURSES

Branch: Civil Engineering

Sl. No.	Course Code	Course Title	Credits
1	OEC-CSE-301	Machine Learning for Real-World Applications	4
2	OEC-EEE-305	Renewable Energy	4
3	OEC-EEE-306	Renewable Energy Lab	1
4	OEC-101	Economics	4
5	OEC-102	Sanskrit	4

PROJECT

Branch: Civil Engineering

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	CE-P1	Project Stage-I (Mini Project/ Industrial Training)	0:00:04	2	VI
2	CE-P2	Project Stage-II(Minor Project Work) (to be continued in next semester)	0:00:10	5	VII
3	CE-P3	Project Stage-III(Major Project Work & Dissertation)	0:00:18	9	VIII
Total Credit				16	

Mandatory Courses

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	MC-101	Induction Programme	0	0	0	0	I
2	MC-102	Environmental Science	2	0	0	2	IV
3	MC-103	Values & Ethics	2	0	0	0	IV
4	MC-104	PDP-I	2	0	0	0	I
5	MC-105	PDP-II	2	0	0	0	II
6	MC-106	PDP-III	2	0	0	0	III
7	MC-107	PDP-IV	2	0	0	0	IV
8	MC-108	PDP-V	2	0	0	0	V
9	MC-109	PDP-VI	2	0	0	0	VI
10	MC-110	PDP-VII	2	0	0	0	VII
11	MC-111	PDP-VIII	2	0	0	0	VIII
12	MC-112	PT & Games/NSS/NCC-I	0	0	0	0	I
13	MC-113	PT & Games/NSS/NCC-II	0	0	0	0	II
14	MC-114	Vedic Mathematics-I	2	0	0	0	VI
15	MC-115	Vedic Mathematics-II	2	0	0	0	VII
Total Credit:						2	

Note: **PDP: Presonality Development Programme**

PT: Physical Training

NSS: Natinal Service Scheme

NCC: National Cadet Corps

MASSIVE OPEN ONLINE COURSES

Branch: Civil Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week T: P	L:	Credits
1	MOOCs -101	Artificial Intelligence for Real-World Application	3:01:00		4
2	MOOCs -102	Applications of Deep Learning and Neural Networks	3:01:00		4
3	MOOCs -103	Usability Design of Software Applications	3:01:00		4
4	MOOCs -104	Applied Cloud Computing	3:01:00		4
5	MOOCs -105	Information Security - Practitioner's perspective	3:01:00		4
6	MOOCs -106	Innovation and Entrepreneurship	3:01:00		4
7	MOOCs -107	Practical Approach to Data Mining and Analytics	3:01:00		4
8	MOOCs -108	IoT and its Applications	3:01:00		4
9	MOOCs -109	Intelligent Game Design and its Applications	3:01:00		4
10	MOOCs -110	Industrial Mechatronic Systems	3:01:00		4
11	MOOCs -111	Solar Energy Technology and its Applications	3:01:00		4

Note: A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

COURSE STRUCTURE

SEMESTER I (1st YEAR)

Branch: Civil Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-101	Chemistry	3	1	0	4	30	70	100
2	Basic Science Course	BSC-105	Mathematics – I	3	1	0	4	30	70	100
3	Engineering Science Course	ESC-101	Basic Electrical	3	1	0	4	30	70	100
4	Engineering Science Course	ESC-103	Introduction to Unix & C Programming	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Courses	HSMC-101	English	3	0	0	3	30	70	100
Total(A)							19	150	350	500
Practical/Drawing/Design										
1	Engineering Science Course	ESC-105	Engineering Graphics & Design	1	0	4	3	30	20	50
2	Basic Science Course	BSC-102	Chemistry Lab	0	0	3	1.5	30	20	50
3	Engineering Science Course	ESC-102	Basic Electrical Lab	0	0	2	1	30	20	50
4	Engineering Science Course	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	30	20	50
Total(B)							6.5	120	80	200
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-101	Induction Program	0	0	0	0	0	0	0
2	Mandatory Courses	MC-112	PT & Games/NSS/NCC-I	2	0	0	0	0	0	0
3	Mandatory Courses	MC-104	PDP-I	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							25.5	270	430	700
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER II (1st YEAR)

Branch: Civil Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-106	Mathematics –II	3	1	0	4	30	70	100
2	Humanities and Social Sciences including Management Courses	HSMC-102	Technical Communication	2	0	0	2	30	70	100
3	Engineering Science Course	ESC-106	Basic Electronics	3	1	0	4	30	70	100
4	Basic Science Course	BSC-103	Physics	3	1	0	4	30	70	100
5	Engineering Science Course	ESC-108	Data Structures	3	1	0	4	30	70	100
Total(A)							18	150	350	500
Practical/Drawing/Design										
1	Engineering Science Course	ESC-110	Engineering Workshop Practices	1	0	4	3	30	20	50
2	Engineering Science Course	ESC-107	Basic Electronics Lab	0	0	2	1	30	20	50
3	Basic Science Course	BSC-104	Physics Lab	0	0	3	1.5	30	20	50
4	Humanities and Social Sciences including Management Courses	HSMC-103	Technical Communication Lab	0	0	2	1	30	20	50
5	Engineering Science Course	ESC-109	Data Structures Lab	0	0	2	1	30	20	50
Total(B)							7.5	150	100	250
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-102	Environmental Science	2	0	0	2	30	70	100
2	Mandatory Courses	MC-113	PT& Games/NSS/NCC-I	2	0	0	0	0	0	0
3	Mandatory Courses	MC-105	PDP-II	2	0	0	0	0	0	0
Total(C)							2	30	70	100
Grand Total (A+B+C)							27.5	330	520	850
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER III (SECOND YEAR)

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-107	Mathematics-III	3	1	0	4	30	70	100
2	Engineering Science Courses	ESC-111	Engineering Mechanics	3	1	0	4	30	70	100
3	Professional Core Courses	PCC-CE-201	Strength of Material	3	1	0	4	30	70	100
4	Professional Core Courses	PCC-CE-203	Surveying & Levelling	3	1	0	4	30	70	100
5	Professional Core Courses	PCC-CE-205	Engineering Geology	4	0	0	4	30	70	100
6	Humanities and Social Sciences including Management Courses	HSMC-104	French Through Communicative Approach-I	2	0	0	2	30	70	100
Total(A)							22	180	420	600
Practical/Drawing/Design										
1	Professional Core Courses	PCC-CE-202	Strength of Material Lab	0	0	2	1	30	20	50
2	Professional Core Courses	PCC-CE-204	Surveying & Levelling Lab	0	0	2	1	30	20	50
3	Engineering Science Course	ESC-112	Programming using MATLAB	0	0	2	1	30	20	50
Total(B)							3	90	60	150
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-103	Values & Ethics	2	0	0	0	0	0	0
2	Mandatory Courses	MC-106	PDP-III	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							25	270	480	750
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER IV (SECOND YEAR)

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Elective Courses	PEC-CE-301	Disaster Preparedness & Planning Management	4	0	0	4	30	70	100
2	Professional Core Courses	PCC-CE-206	Fluid Mechanics	4	0	0	4	30	70	100
3	Professional Core Courses	PCC-CE-208	Materials Testing & Evaluation	4	0	0	4	30	70	100
4	Professional Core Courses	PCC-CE-210	Building Construction	4	0	0	4	30	70	100
5	Humanities and Social Sciences including Management Courses	HSMC-106	Organisational Behavior	2	0	0	2	30	70	100
6	Humanities and Social Sciences including Management Courses	HSMC-105	French Through Communicative Approach-II	2	0	0	2	30	70	100
Total(A)							20	180	420	600
Practical/Drawing/Design										
1	Professional Core Courses	PCC-CE-207	Fluid Mechanics Lab	0	0	2	1	30	20	50
2	Professional Core Courses	PCC-CE-209	Materials Testing & Evaluation Lab	0	0	2	1	30	20	50
3	Professional Core Courses	PCC-CE-211	Building Construction Lab	0	0	2	1	30	20	50
Total(B)							3	90	60	150
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-107	PDP-IV	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							23	270	480	750

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER V (THIRD YEAR]

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Courses	PCC-CE-301	Geotechnical Engineering-I	3	1	0	4	30	70	100
2	Professional Core Courses	PCC-CE-303	Hydraulic Engineering	3	1	0	4	30	70	100
3	Professional Core Courses	PCC-CE-305	Transportation Engineering	3	1	0	4	30	70	100
4	Open Elective Courses	OEC-CSE-301	Machine Learning for Real-World Applications	3	1	0	4	30	70	100
5	Open Elective Courses	OEC-EEE-305	Renewable Energy	3	1	0	4	30	70	100
Total(A)							20	150	350	500
Practical/Drawing/Design										
1	Professional Core Courses	PCC-CE-302	Geotechnical Engineering Lab-I	0	0	2	1	30	20	50
2	Professional Core Courses	PCC-CE-304	Hydraulic Engineering Lab	0	0	2	1	30	20	50
3	Professional Core Courses	PCC-CE-306	Transportation Engineering Lab	0	0	2	1	30	20	50
4	Open Elective Courses	OEC-EEE-306	Renewable Energy Lab	0	0	2	1	30	20	50
Total(B)							4	120	80	200
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-108	PDP-V	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							24	270	430	700

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER VI (THIRD YEAR)

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Courses	PCC-CE-307	Structural Analysis -I	3	1	0	4	30	70	100
2	Professional Core Courses	PCC-CE-309	Design of Concrete Structures-I	3	1	0	4	30	70	100
3	Professional Core Courses	PCC-CE-310	Environmental Engineering	3	1	0	4	30	70	100
4	Professional Elective courses	PEC-CE-302	Geotechnical Engineering-II	3	1	0	4	30	70	100
5	Professional Elective courses	PEC-CE-304	Engineering Economics, Estimation & Costing	3	1	0	4	30	70	100
Total(A)							20	150	350	500
Practical/Drawing/Design										
1	Professional Core courses	PCC-CE-308	Structural Engineering Lab	0	0	2	1	30	20	50
2	Professional Elective courses	PEC-CE-303	Geotechnical Engineering Lab -II	0	0	2	1	30	20	50
3	Engineering Science Course	ESC-113	Python Programming	1	0	2	2	30	20	50
4	Project Work	CE-P1	Project Stage -I (Mini Project /Industrial Training)	0	0	4	2	75	25	100
Total(B)							6	165	85	250
Mandatory Courses										
1	Mandatory Courses	MC-109	PDP-VI	2	0	0	0	0	0	0
2	Mandatory Courses	MC-114	Vedic Mathematics-I	2	0	0	0	0	0	0
Total(C)							0	0	0	0
Grand Total (A+B+C)							26	315	435	750

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER VII (FOURTH YEAR)

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
1	Professional Core courses	PCC-CE-401	Hydrology & Water Resources Engineering	3	1	0	4	30	70	100
2	Professional Elective courses	PEC-CE-402	Structural Analysis -II	3	1	0	4	30	70	100
3	Professional Elective courses	PEC-CE-401	Design of Concrete Structures-II	3	1	0	4	30	70	100
Total(A)							12	90	210	300
Practical/Drawing/Design										
1	Professional Core courses	PCC-CE-402	Concrete Structure Lab	0	0	2	1	30	20	50
2	Professional Core courses	PCC-CE-403	Computer aided Civil Engineering Drawing	0	0	2	1	30	20	50
3	Project Work	CE-P2	Project Stage - II (Minor Project Work)	0	0	10	5	75	25	100
Total(B)							7	135	65	300
Mandatory Courses										
1	Mandatory Courses	MC-110	PDP-VII	2	0	0	0	0	0	0
1	Mandatory Courses	MC-115	Vedic Mathematics-II	2	0	0	0	0	0	0
Total(C)							7	0	0	0
Grand Total (A+B+C)							19	225	275	500
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										

COURSE STRUCTURE

SEMESTER VIII (FOURTH YEAR)

Branch: Civil Engineering

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core courses	PCC-CE-404	Construction Engineering & Management	3	1	0	4	30	70	100
2	Professional Elective courses	PEC-CE-403	Design of Hydraulic Structure	3	1	0	4	30	70	100
3	Professional Elective courses	PEC-CE-404	Traffic Engineering and Management	3	1	0	4	30	70	100
Total(A)							12	90	210	300
Practical/Drawing/Design										
1	Project Work	CE-P3	Project Stage -III (Major Project Work & Dissertation)	0	0	18	9	75	25	100
Total(B)							9	75	25	100
Mandatory Courses/MOOC'S										
1	Mandatory Courses	MC-111	PDP-VIII	2	0	0	0	0	0	100
Total(C)							0	0	0	0
Grand Total (A+B+C)							21	165	235	400
L-Lecture, T-Tutorial, P-Practical IA- Internal Assessment, ESE-End Semester Examination										