

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
II YEAR: III SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE3006	Computer-Aided Civil Engineering Drawing	1	0	0	40	60	100	1
2	BCE3007	Introduction to Civil Engineering	2	0	0	40	60	100	2
3	BEC3019	Basic Electronics	1	0	0	40	60	100	1
4	BCE3010	Engineering Mechanics	3	1	0	40	60	100	4
5	BCE3011	Surveying	3	1	0	40	60	100	4
6	BME3007	Mechanical Engineering	2	0	0	40	60	100	2
7	BMA3010-CE	Mathematics-III (Transform and Discrete Mathematics)	2	0	0	40	60	100	2
8	BSS3001	Open Elective-I (Soft Skills and Inter-Personal Communication)	2	0	0	100	0	100	2
PRACTICAL/ TRAINING/PROJECT									
9	BCE3503	Building Planning and Drawing Lab	0	0	2	80	20	100	1
10	BEC3505	Electronics Lab	0	0	2	80	20	100	1
11	BCE3507	Survey Lab	0	0	2	80	20	100	1
TOTAL			16	2	6	620	480	1100	19

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
II YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE4004	Engineering Geology	2	0	0	40	60	100	2
2	BCE4006	Disaster Preparedness and Planning	2	0	0	40	60	100	2
3	BCE4007	Introduction to Fluid Mechanics	2	1	0	40	60	100	3
4	BCE4011	Introduction to Solid Mechanics	3	0	0	40	60	100	3
5	BCE4003	Geoinformatics	3	1	0	40	60	100	3
6	BCE4009	Materials, Testing and Evaluation	3	0	0	40	60	100	3
7	BCE4012	Environmental Engineering-I	3	1	0	40	60	100	3
8	BCE4010	Civil Engineering- Societal and Global Impact	2	0	0	40	60	100	2
PRACTICAL/ TRAINING/PROJECT									
9	BCE4505	Fluid Mechanics Lab	0	0	2	80	20	100	1
10	BCE4508	Solid Mechanics Lab	0	0	2	80	20	100	1
11	BCE4507	Material Testing Lab	0	0	2	80	20	100	1
12	BCE4509	Environmental Engineering-Lab	0	0	2	80	20	100	1
TOTAL			21	4	8	640	560	1200	25

Note: Survey Camp will be held at the end of 4th Semester

L -Lecture

T -Tutorial

P -Practical

CIE -Continuous Internal Evaluation

ESE -End Semester Exam

C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
III YEAR: V SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE5014	Hydraulic Engineering	3	0	0	40	60	100	3
2	BCE5017	Structural Analysis-I	3	1	0	40	60	100	3
3	BCE5015	Geotechnical Engineering	3	1	0	40	60	100	3
4	BCE5010	Hydrology and Water Resource Engineering	3	1	0	40	60	100	3
5	BCE5018	Environmental Engineering-II	3	1	0	40	60	100	3
6	BCE5016	Transportation Engineering-I	3	1	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
7	BCE5507	Hydraulic Engineering Lab	0	0	2	80	20	100	1
8	BCE5501	Geotechnical Engineering Lab	0	0	2	80	20	100	1
9	BCE5508	Transportation Engineering Lab	0	0	2	80	20	100	1
10	BCE5505	Survey Camp#	0	0	2	100	0	100	1
11	XCEX601	Industrial Visit	0	0	2	100	0	100	1
12	BAP5501	Aptitude & Reasoning and Online Test	0	0	2	100	0	100	1
TOTAL			18	6	12	780	420	1200	24

based on Survey Camp after the end of 4th semester

L -Lecture

T -Tutorial

P -Practical

CIE -Continuous Internal Evaluation

ESE -End Semester Exam

C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
III YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE6007	Estimation and Construction Management	3	0	0	40	60	100	3
2	BCE6008	Structure Analysis-II	3	1	0	40	60	100	3
3	BCE6009	Design of Concrete Structures-I	3	1	0	40	60	100	3
4		Elective-I	3	0	0	40	60	100	3
5		Elective-II	3	0	0	40	60	100	3
6	BHU6024	Effective Technical Communication	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
7	BCE6507	Estimation and Costing Lab	0	0	4	80	20	100	2
8	BCE6503	Concrete Lab	0	0	2	80	20	100	1
9	BAP6501	Aptitude & Reasoning and Online Test	0	0	2	100	0	100	1
10	BCE6504	Seminar	0	0	2	100	0	100	1
TOTAL			18	2	10	600	400	1000	23

- L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
IV YEAR: VII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE7004	Design of Concrete Structures-II	3	0	0	40	60	100	3
2	BCE7005	Steel Structures	3	1	0	40	60	100	3
3		Elective-III	3	0	0	40	60	100	3
4	MCE7001	Air and Noise Pollution: Process And Control	4	2	0	40	60	100	5
5	MCE7002	Process and Treatment : Water supply and Wastewater	4	2	0	40	60	100	5
6	MCE7003	Environmental Management and Environmental Impact Assessment	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
7	BCE7501	Summer Training	0	0	2	100	-	100	1
8	MCE7501	Environmental Engineering Lab-I	0	0	4	80	20	100	2
TOTAL			21	7	6	420	380	800	27

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
IV YEAR: VIII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1		Elective-IV	3	0	0	40	60	100	3
2		Elective-V	3	0	0	40	60	100	3
3		Elective-VI	4	2	0	40	60	100	5
4	MCE8001	Environmental Chemistry and Microbiology	4	2	0	40	60	100	5
5	MCE8002	Solid and Hazardous Waste Management	4	2	0	40	60	100	5
6	MCE8003	Application of GIS and Remote Sensing in Environmental Engineering	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
7	MCE8501	Environmental Engineering Lab-II	0	0	4	80	100	20	2
TOTAL			22	8	4	320	380	700	28

- L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
V YEAR: IX SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1		Elective-VII	4	2	0	40	60	100	5
2		Elective-VIII	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
3	MCE9501	Seminar/Minor Project	-	-	4	100	-	100	4
4	MCE9502	Dissertation-I	-	-	6	100	-	100	6
TOTAL			8	4	10	280	120	400	20

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING
V YEAR: X SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
PRACTICAL/ TRAINING/PROJECT									
1	MCE0501	Dissertation-II	-	-	18	80	20	100	18
2	MCE0502	Comprehensive Viva*	-	-	-	100	-	100	2
TOTAL			-	-	18	180	20	200	20

*Based on Field/industrial Visit

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: ENVIRONMENTAL ENGINEERING

LIST OF ELECTIVES

Electives-I

S. No.	Subject Code	Subject Name	Semester
1	BCE6005-DE1	Irrigation Engineering	VI
2	BCE6002-DE1	Transport of Water and Wastewater	VI
3	BCE6006-DE1	Concrete Materials	VI
4	BCE6007-DE1	MOOC: Earth Sciences for Civil Engineering(NPTEL)	VI

Electives-II

S. No.	Subject Code	Subject Name	Semester
1	BCE6005-DE2	Foundation Engineering	VI
2	BCE6006-DE2	Air and Noise Pollution Control	VI
3	BCE6007-DE2	Pipeline Engineering	VI
4	BCE6008-DE2	MOOC: Sustainable Materials and Green Buildings(NPTEL)	VI

Electives-III

S. No.	Subject Code	Subject Name	Semester
1	BCE7001-DE3	Transportation Engineering	VII
2	BCE7002-DE3	Environmental Impact Assessment	VII
3	BCE7003-DE3	Repair and Rehabilitation of Structures	VII
4	BCE7004-DE3	MOOC: Plastic Waste Management (NPTEL)	VII

Electives-IV

S. No.	Subject Code	Subject Name	Semester
1	BCE8001-DE4	Solid and Hazardous Waste Management	VIII
2	BCE8002-DE4	Ground Water	VIII
3	BCE8003-DE4	Advanced Transportation Engineering	VIII
4	BCE8004-DE4	MOOC: Energy Efficiency, acoustics and daylighting in Building(NPTEL)	VIII

Electives-V

S. No.	Subject Code	Subject Name	Semester
1	BCE8001-DE5	Earthquake Engineering	VIII
2	BCE8002-DE5	Traffic Engineering and Management	VIII
3	BCE8003-DE5	Rock Mechanics	VIII

4	BCE8004-DE5	MOOC: Infrastructure Planning and Management (NPTEL)	VIII
---	-------------	--	------

Electives-VI

S. No.	Subject Code	Subject Name	Semester
1	MCE8101	Energy and Environment	VIII
2	MCE8102	Earth and Environment	VIII
3	MCE8103	Environmental Geology	VIII
4	MCE8104	Ecological Engineering	

Electives-VII

S. No.	Subject Code	Subject Name	Semester
1	MCE9101	Industrial Wastewater; Treatment Technology and Control	IX
2	MCE9102	Water Pollution and Management	IX
3	MCE9103	Advanced atmospheric Environmental Engineering	IX
4	MCE9104	Environmental Geo- Technology	IX

Electives-VIII

S. No.	Subject Code	Subject Name	Semester
1	MCE9201	Disaster Management	IX
2	MCE9202	Groundwater Hydrology and Management	IX
3	MCE9203	Environmental Sanitation and Health	IX
4	MCE9204	Advanced Wastewater Treatment Technology	IX

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
II YEAR: III SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE3006	Computer-Aided Civil Engineering Drawing	1	0	0	40	60	100	1
2	BCE3007	Introduction to Civil Engineering	2	0	0	40	60	100	2
3	BEC3019	Basic Electronics	1	0	0	40	60	100	1
4	BCE3010	Engineering Mechanics	3	1	0	40	60	100	4
5	BCE3011	Surveying	3	1	0	40	60	100	4
6	BME3007	Mechanical Engineering	2	0	0	40	60	100	2
7	BMA3010-CE	Mathematics-III (Transform and Discrete Mathematics)	2	0	0	40	60	100	2
8	BSS3001	Open Elective-I (Soft Skills and Inter-Personal Communication)	2	0	0	100	0	100	2
PRACTICAL/ TRAINING/PROJECT									
9	BCE3503	Building Planning and Drawing Lab	0	0	2	80	20	100	1
10	BEC3505	Electronics Lab	0	0	2	80	20	100	1
11	BCE3507	Survey Lab	0	0	2	80	20	100	1
TOTAL			16	2	6	620	480	1100	19

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
II YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE4004	Engineering Geology	2	0	0	40	60	100	2
2	BCE4006	Disaster Preparedness and Planning	2	0	0	40	60	100	2
3	BCE4007	Introduction to Fluid Mechanics	2	1	0	40	60	100	3
4	BCE4011	Introduction to Solid Mechanics	3	0	0	40	60	100	3
5	BCE4003	Geoinformatics	3	1	0	40	60	100	3
6	BCE4009	Materials, Testing and Evaluation	3	0	0	40	60	100	3
7	BCE4012	Environmental Engineering-I	3	1	0	40	60	100	3
8	BCE4010	Civil Engineering- Societal and Global Impact	2	0	0	40	60	100	2
PRACTICAL/ TRAINING/PROJECT									
9	BCE4505	Fluid Mechanics Lab	0	0	2	80	20	100	1
10	BCE4508	Solid Mechanics Lab	0	0	2	80	20	100	1
11	BCE4507	Material Testing Lab	0	0	2	80	20	100	1
12	BCE4509	Environmental Engineering-Lab	0	0	2	80	20	100	1
TOTAL			21	4	8	640	560	1200	25

Note: Survey Camp will be held at the end of 4th Semester

L -Lecture

T -Tutorial

P -Practical

CIE -Continuous Internal Evaluation

ESE -End Semester Exam

C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
III YEAR: V SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE5014	Hydraulic Engineering	3	0	0	40	60	100	3
2	BCE5017	Structural Analysis-I	3	1	0	40	60	100	3
3	BCE5015	Geotechnical Engineering	3	1	0	40	60	100	3
4	BCE5010	Hydrology and Water Resource Engineering	3	1	0	40	60	100	3
5	BCE5018	Environmental Engineering-II	3	1	0	40	60	100	3
6	BCE5016	Transportation Engineering-I	3	1	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
7	BCE5507	Hydraulic Engineering Lab	0	0	2	80	20	100	1
8	BCE5501	Geotechnical Engineering Lab	0	0	2	80	20	100	1
9	BCE5508	Transportation Engineering Lab	0	0	2	80	20	100	1
10	BCE5505	Survey Camp#	0	0	2	100	0	100	1
11	XCEX601	Industrial Visit	0	0	2	100	0	100	1
12	BAP5501	Aptitude & Reasoning and Online Test	0	0	2	100	0	100	1
TOTAL			18	6	12	780	420	1200	24

based on Survey Camp after the end of 4th semester

L -Lecture

T -Tutorial

P -Practical

CIE -Continuous Internal Evaluation

ESE -End Semester Exam C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
III YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE6007	Estimation and Construction Management	3	0	0	40	60	100	3
2	BCE6008	Structure Analysis-II	3	1	0	40	60	100	3
3	BCE6009	Design of Concrete Structures-I	3	1	0	40	60	100	3
4		Elective-I	3	0	0	40	60	100	3
5		Elective-II	3	0	0	40	60	100	3
6	BHU6024	Effective Technical Communication	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
7	BCE6507	Estimation and Costing Lab	0	0	4	80	20	100	2
8	BCE6503	Concrete Lab	0	0	2	80	20	100	1
9	BAP6501	Aptitude & Reasoning and Online Test	0	0	2	100	0	100	1
10	BCE6504	Seminar	0	0	2	100	0	100	1
TOTAL			18	2	10	600	400	1000	23

- L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
IV YEAR: VII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BCE7004	Design of Concrete Structures-II	3	0	0	40	60	100	3
2	BCE7005	Steel Structures	3	1	0	40	60	100	3
3		Elective-III	3	0	0	40	60	100	3
4	MCE7006	Theory of Elasticity and Plasticity	4	2	0	40	60	100	5
5	MCE7004	Matrix Method of Structural Analysis	4	2	0	40	60	100	5
6	MCE7005	Advanced Concrete Technology and Design	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
7	BCE7501	Summer Training	0	0	2	100	-	100	1
8	MCE7503	Concrete Lab	0	0	4	80	20	100	2
TOTAL			21	7	6	420	380	800	27

L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
IV YEAR: VIII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1		Elective-IV	3	0	0	40	60	100	3
2		Elective-V	3	0	0	40	60	100	3
3		Elective-VI	4	2	0	40	60	100	5
4	MCE8004	Finite Element Method	4	2	0	40	60	100	5
5	MCE8005	Theory of Plates and Shells	4	2	0	40	60	100	5
6	MCE8006	Earthquake Resistant Design and Structures	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
7	MCE8503	CAD Lab	0	0	4	80	100	20	2
TOTAL			22	8	4	320	380	700	28

- L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
V YEAR: IX SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1		Elective-VII	4	2	0	40	60	100	5
2		Elective-VIII	4	2	0	40	60	100	5
PRACTICAL/ TRAINING/PROJECT									
3	MCE9501	Seminar/Minor Project	-	-	4	100	-	100	4
4	MCE9502	Dissertation-I	-	-	6	100	-	100	6
TOTAL			8	4	10	280	120	400	20

- L -Lecture
T -Tutorial
P -Practical
CIE -Continuous Internal Evaluation
ESE -End Semester Exam
C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING
V YEAR: X SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
PRACTICAL/ TRAINING/PROJECT									
1	MCE0501	Dissertation-II	-	-	18	80	20	100	18
2	MCE0502	Comprehensive Viva*	-	-	-	100	-	100	2
TOTAL			-	-	18	180	20	200	20

*Based on Field/industrial Visit

- L -Lecture
- T -Tutorial
- P -Practical
- CIE -Continuous Internal Evaluation
- ESE -End Semester Exam
- C -Credit

STUDY & EVALUATION SCHEME
INTEGRATED B.TECH+M.TECH: CIVIL ENGINEERING
SPECIALIZATION: STRUCTURAL ENGINEERING

LIST OF ELECTIVES

Electives-I

S. No.	Subject Code	Subject Name	Semester
1	BCE6005-DE1	Irrigation Engineering	VI
2	BCE6002-DE1	Transport of Water and Wastewater	VI
3	BCE6006-DE1	Concrete Materials	VI
4	BCE6007-DE1	MOOC: Earth Sciences for Civil Engineering(NPTEL)	VI

Electives-II

S. No.	Subject Code	Subject Name	Semester
1	BCE6005-DE2	Foundation Engineering	VI
2	BCE6006-DE2	Air and Noise Pollution Control	VI
3	BCE6007-DE2	Pipeline Engineering	VI
4	BCE6008-DE2	MOOC: Sustainable Materials and Green Buildings(NPTEL)	VI

Electives-III

S. No.	Subject Code	Subject Name	Semester
1	BCE7001-DE3	Transportation Engineering	VII
2	BCE7002-DE3	Environmental Impact Assessment	VII
3	BCE7003-DE3	Repair and rehabilitation of Structures	VII
4	BCE7004-DE3	MOOC: Plastic Waste Management (NPTEL)	VII

Electives-IV

S. No.	Subject Code	Subject Name	Semester
1	BCE8001-DE4	Solid and Hazardous Waste Management	VIII
2	BCE8002-DE4	Ground Water	VIII
3	BCE8003-DE4	Advanced Transportation Engineering	VIII
4	BCE8004-DE4	MOOC: Energy Efficiency, acoustics and daylighting in Building(NPTEL)	VIII

Electives-V

S. No.	Subject Code	Subject Name	Semester
--------	--------------	--------------	----------

1	BCE8001-DE5	Earthquake Engineering	VIII
2	BCE8002-DE5	Traffic Engineering and Management	VIII
3	BCE8003-DE5	Rock Mechanics	VIII
4	BCE8004-DE5	MOOC: Infrastructure Planning and Management (NPTEL)	VIII

Electives-VI

S. No.	Subject Code	Subject Name	Semester
1	MCE8105	Foundation for High Rise Building and Bridges	VIII
2	MCE8106	Pre-Stressed Concrete	VIII
3	MCE8107	Rock Mechanics and Tunneling	VIII

Electives-VII

S. No.	Subject Code	Subject Name	Semester
1	MCE9105	Steel and Composite Structures	IX
2	MCE9106	Bridge Engineering	IX
3	MCE9107	Design of Industrial Structures	IX

Electives-VIII

S. No.	Subject Code	Subject Name	Semester
1	MCE9205	Design of Tall Building	IX
2	MCE9206	Analysis and Design of Hydraulic Structures	IX
3	MCE9207	Construction Techniques and Management	IX

