B.Tech. Civil Engg (Spl in Smart Cities)

Year :				
Subject	Code	Name of the Course	Type of Course	
				L
1		Communication Skills for Engineers	I	2
2		Multi Variable Calculus	I	3
3		Semi conductor Physics / Biology for Engineers	I	3
4		Basic Electrical & Electronics Engg. / Engineering Graphic	I	3
5		Programming for Problem Solving - C	C	3
6		YOGA / Environmental Impact Analysis	Mng	2
		Total		16
Year :				
Subject	Code	Name of the Course	Type of Course	
				L
1		Linear Algebra & Differential Equations	T	3
2		Discrete Mathematics / Engineering Mechanics	T	3
3		Basic Electrical & Electronics Engg. / Engineering Graphic	I	3
4		Semi conductor Physics / Biology for Engineers	I	3
5		Engineeering Workshop / Introduction of Digital System	I	2
6		OOPS	C	3
7		YOGA / Environmental Impact Analysis	Mng	2
		Total		19
Year :				
Subject	Code	Name of the Course	Type of Course	
				L
1	C1UC321T	Mathematics-III (Functions of Complex Variables and Trar	T	3
2	G1UA301T	Environmental Monitoring and Analysis	T	2
3	G1UA302B	Mechanics of Materials	I	3
4	G1UA303B	Fluid Mechanics	I	3
5	G1UA304C	Surveying	C	3
6	G1UA305B	Computer designs in Civil Engineering	I	1
7	K1UC320B	Communication Competency & Aptitude Building -1	T	1
		Total		16
Year :				
Subject	Code	Name of the Course	Type of Course	
				L
1	C1UC421T	Probability and Statistics	T	3
2	G1UB401T	Demography for Smart Cities	T	3
3	G1UA401C	Construction Engineering	C	3

Subject	Code	Name of the Course	Type of Course	L
4	G1UA401B	Geotechnical Engineering	I	3
5	G1UA402B	Remote Sensing & Geographical Information System	I	3
6	G1UA403B	Structural Analysis	I	3
7	O1UA421B	Communication Competency & Aptitude Building -2	T	1
		Total		19

Year :

Subject	Code	Name of the Course	Type of Course	L
1	G1UA501B	Design of Reinforced Concrete Structures	I	3
2	G1UA502T	Water Supply & Treatment Systems	T	3
3	G1UA503C	Transportation Engineering	C	3
4	G1UA504T	Advanced Structural Analysis	I	3
5	G1UA505T	Advanced Materials for Smart Structures	T	3
6	G1UA510T	Smart Infrastructure systems	T	3
7	G1UA508R	Summer Internship	T	0
8	K1UC523B	Communication Competency & Aptitude Building -3	T	1
9	G1UA306B	Design Thinking	I	1
		Total		20

Year :

Subject	Code	Name of the Course	Type of Course	L
1	G1UB601T	Sustainable Transportation	T	3
2	G1UB604T	Urban Planning and Management	T	3
3	G1UB602B	GIS for Smart Cities	I	3
4	G1UB603B	AI and ML for Smart Cities	I	3
5	G1UA610B	Civionics	I	1
6	G1UA611B	Civil-3D Designs	I	1
7	G1UA612L	Technical Paper writing	PR	0
8	O1UA602B	Campus to Corporate	I	1
9	G1UA613B	Design Thinking-II	I	1
		Total		16

Year :

Subject	Code	Name of the Course	Type of Course	L
1	Will be provided	Program Elective - III	T	3
2	Will be provided	Program Elective - IV	T	3
3	Will be provided	Program Elective - V	T	3
4	G1UA703T	Construction Planning & Management	T	3
5	G1UA704C	Design of Steel Structures	T	3
6	G1UA706R	Capstone Phase-1	PR	0
7	G1UA705R	Industrial Internship	PR	0
		Total		15

Year :				
Subject	Code	Name of the Course	Type of Course	L
1	Will be provided	Capstone Phase 2		0
		Total		0

Total Credits	162

List of Program Electives

B.Tech Civil Engg (With Specilization in Smart Cities)

Sr.No.	Course Code	Course Name	Course type	L
1	New course	Sustainable Transportation	T	3
2	New course	Demography for Smart City	T	3
3	New course	Value Engineering and Valuation	T	3
4	New course	Infrastructure Development	T	3
5	New course	Metropolitan Planning, Development and Management	T	3
6	New course	GIS for Smart Cities	I	3
7	New course	AI & ML for Smart Cities	I	3
8	New course	Smart Infrastructure Systems	T	3
9	New course	Advanced Materials for Smart Structures	T	3
10	New course	Urban Planning and Management	T	3

Total

Semester I

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	1	0	3	4
0	1	0	4	5
0	1	0	4	5
0	1	0	4	5
0	1	1	5	8
0	0	0	0	2
0	5	1	**20**	29

Semester II

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	0	0	3	3
0	0	0	3	3
0	1	0	4	4
0	1	0	4	5
0	1	0	3	4
0	1	1	5	8
0	0	0	0	2
0	4	1	22	29

Semester III

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	0	0	3	3
0	0	0	2	2
0	1	0	4	5
0	1	0	4	5
0	1	1	5	8
0	1	0	3	5
0	1	0	2	3
0	5	1	**23**	28

Semester IV

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	0	0	3	3
0	0	0	3	3
0	1	1	5	8

T	P	S	Credits	Total Hrs
0	1	0	4	5
0	1	0	4	5
0	1	0	4	5
0	1	0	2	3
0	5	1	25	32

				Semester V

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	1	0	4	5
0	0	0	3	3
0	1	1	5	8
0	0	0	3	3
0	0	0	3	3
0	0	0	3	3
0	0	0	1	0
0	0	1	2	3
0	1	0	0	3
0	3	2	24	31

				Semeste VI

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	0	0	3	3
0	0	0	3	3
0	1	0	4	5
0	1	0	4	5
0	1	0	2	3
0	1	0	2	3
0	1	0	0	2
0	1	0	2	3
0	1	0	0	3
0	7	0	20	30

				Semester VII

Teaching Scheme				Total Hrs
T	P	S	Credits	
0	0	0	3	3
0	0	0	3	8
0	0	0	3	3
0	0	0	3	3
0	0	0	3	8
0	0	0	3	0
0	0	0	1	0
0	0	0	19	25

Teaching Scheme				Semester VIII
				Total Hrs
T	P	S	Credits	
0	0	0	9	0
0	0	0	**9**	0

T	P	S	C
0	0	0	3
0	0	0	3
0	0	0	3
0	0	0	3
0	0	0	3
0	1	0	4
0	1	0	4
0	0	0	3
0	0	0	3
0	0	0	3