

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,
FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
B.Tech – CIVIL ENGINEERING (PART TIME) – 2019
CURRICULUM - 2019

SEMESTER - I					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PMAB01T	Transforms and Boundary Value Problems	3	1	0	4
19PCEC11T	Engineering Geology	3	1	0	4
19PCEC12T	Mechanics of Structures	2	1	0	3
19PCEC13T	Engineering Surveying	2	1	0	3
19PCEC18L	Strength of Materials Laboratory	0	0	2	1
19PCEC19L	Engineering Surveying Laboratory	0	0	2	1
Total Learning Credits					16

SEMESTER - II					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PMAB02T	Numerical Methods for Engineers	3	1	0	4
19PCEC21T	Fluid Mechanics	2	1	0	3
19PCEC22T	Structural Analysis	2	1	0	3
19PCEC29L	Fluid Mechanics Laboratory	0	0	2	1
	Open Elective - I				3
Total Learning Credits					14

SEMESTER – III					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEC31T	Design of RC and Steel Structures	4	0	0	4
19PCEC32T	Environmental Engineering and Design	2	1	0	3
19PCEC33T	Hydrology and Water Resources Engineering	3	1	0	4
19PCEC34T	Geotechnical Engineering	2	1	0	3
19PCEC38L	Environmental Engineering Laboratory	0	0	2	1
19PCEC39L	Geotechnical Engineering Laboratory	0	0	2	1
Total Learning Credits					16

SEMESTER – IV					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEC41T	Highway Engineering and Design	2	1	0	3
19PCEC42T	Construction Engineering and Management	2	1	0	3
19PCEC43T	Foundation Engineering and Design	3	0	0	3
19PCEC44T	Geographic Information System	3	0	0	3
	Professional Elective I	3	0	0	3
19PCEC49L	Highway Engineering Laboratory	0	0	2	1
Total Learning Credits					16

SEMESTER –V					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEC51J	Concrete Technology	3	0	2	4
19PCEC52T	Prestressed Concrete Structures	3	0	0	3
	Open Elective – II	3	0	0	3
	Professional Elective – II	3	0	0	3
	Professional Elective – III	3	0	0	3
Total Learning Credits					16

SEMESTER - VI					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEC61T	Design of Earthquake Resistant Structures	3	0	0	3
19PCEC62T	Solid and Hazardous Waste Management	3	0	0	3
	Professional Elective – IV	3	0	0	3
	Professional Elective – V	3	0	0	3
Total Learning Credits					12

SEMESTER – VII					
	Professional Elective – VI	3	0	0	3
19PCEP71L	Project	0	0	24	15
Total Learning Credits					18
Over all Total Learning Credits					108

Total Credits to be earned for the award of B.Tech degree = 108

CONTACT HOUR/CREDIT:

L:Lecture Hoursper week

T:Tutorial Hours per week

P:Practical Hoursperweek

C:Credit

PROFESSIONAL ELECTIVE COURSES

PROFESSIONAL ELECTIVE					
Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEES1T	Design of Steel-Concrete Composite Structures	3	0	0	3
19PCEES2T	Tall Buildings	3	0	0	3
19PCEES3T	Special Concretes and Application	3	0	0	3
19PCEES4T	Repair and Rehabilitation of Structures	3	0	0	3
19PCEEE1T	Air and Noise Pollution and Control	3	0	0	3
19PCEEE2T	Environmental Impact Assessment and Life Cycle Analysis	3	0	0	3
19PCEEH1T	Design of Hydraulic Structures and Irrigation Engineering	3	0	0	3
19PCEEH2T	Ground Water Engineering	3	0	0	3
19PCEEH3T	Surface Hydrology	3	0	0	3
19PCEEG1T	Geotechnical Design	3	0	0	3
19PCEEG2T	Ground Improvement Techniques	3	0	0	3
19PCEEG3T	Foundation on Expansive Soil	3	0	0	3
19PCEET1T	Pavement Analysis and Design	3	0	0	3
19PCEET2T	Railway, Airport and Harbour Engineering	3	0	0	3
19PCEET3T	Traffic Engineering and Management	3	0	0	3
19PCEEC1T	Construction Equipment and Automation	3	0	0	3
19PCEEC2T	Contracts Management	3	0	0	3
19PCEEC3T	Sustainable Construction Methods	3	0	0	3

OPEN ELECTIVE COURSES

Course Code	Course Title	Hours / Week			C
		L	T	P	
19PCEO01J	Modern Tools in Engineering Surveying	2	0	2	3
19PCEO02T	Emerging Trends in Steel Design	2	1	0	3
19PCEO03T	Advanced Prestressed Concrete Structures	3	0	0	3
19PCEO04T	Bridge Engineering	3	0	0	3