



**SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES
(Autonomous)**

DEPARTMENT OF CIVIL ENGINEERING

B.Tech R20::HONOR COURSE STRUCTURE AND SYLLABI

- 1.Student shall earn 20 additional credits to be eligible for the award of B. Tech (Honors) degree (16 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 4 credits, the remaining 4 credits must be acquired through two MOOCs, which shall be domain specific, each with 2 credits and with a minimum duration of 8/12 weeks as recommended by the Board of studies).
- 2.The subjects opted for Honors should be Advanced type which are not covered in regular curriculum
- 3.Students has to acquire 16 credits with minimum one subject from each pool

POOL-1(Structural Engineering)

S.No	Course Code	Course Title	Scheme of Instructions Hours per Week				Scheme of Examination Maximum Marks		
			L	T	P	C	I	E	Total
1	20CIVHR1A	Advanced Concrete Technology	3	1	-	4	30	70	100
2	20CIVHR1B	Application of Special Concrete	3	1	-	4	30	70	100
3	20CIVHR1C	Advanced Steel Structural Design	3	1	-	4	30	70	100
4	20CIVHR1D	Stability of Structure	3	1	-	4	30	70	100

POOL-2(Geotechnical Engineering)

S.No	Course Code	Course Title	Scheme of Instructions Hours per Week				Scheme of Examination Maximum Marks		
			L	T	P	C	I	E	Total
1	20CIVHR2A	Advanced Soil Mechanics	3	1	-	4	30	70	100
2	20CIVHR2B	Advanced Foundation Engineering	3	1	-	4	30	70	100
3	20CIVHR2C	Expansive Soil	3	1	-	4	30	70	100
4	20CIVHR2D	Geosynthetics and Reinforced Soil Structure	3	1	-	4	30	70	100

POOL-3 (Transportation Engineering)

S.No	Course Code	Course Title	Scheme of Instructions Hours per Week				Scheme of Examination Maximum Marks		
			L	T	P	C	I	E	Total
1	20CIVHR3A	Urban Transportation System	3	1	-	4	30	70	100
2	20CIVHR3B	Remote Sensing Application	3	1	-	4	30	70	100
3	20CIVHR3C	Scheduling Techniques in Projects	3	1	-	4	30	70	100
4	20CIVHR3D	Advanced Geometric Design	3	1	-	4	30	70	100

POOL-4 (Environmental Engineering)

S.No	Course Code	Course Title	Scheme of Instructions Hours per Week				Scheme of Examination Maximum Marks		
			L	T	P	C	I	E	Total
1	20CIVHR4A	Applied Environmental Microbiology	3	1	-	4	30	70	100
2	20CIVHR4B	Electronic Waste Management	3	1	-	4	30	70	100
3	20CIVHR4C	Air Pollution and Control	3	1	-	4	30	70	100
4	20CIVHR4D	Environmental Remediation of Contaminated Sites	3	1	-	4	30	70	100

BOS-Chairman

Principal