SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES
(Autonomous)
DEPARTMENT OF COMPUTER SCIENCE AND 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(Computer Architecture)

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	20CSEHR1A	Advanced Computer Architecture	3	1	-	4	30	70	100
2	20CSEHR1B	High Performance Computing	3	1	-	4	30	70	100
3	20CSEHR1C	Multi-core Architectures and Programming	3	1	-	4	30	70	100
4	20CSEHR1D	Parallel Computing	3	1	-	4	30	70	100

POOL–2(Data Science)

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	20CSEHR2A	Business Analytics	3	1	-	4	30	70	100
2	20CSEHR2B	Data Science with python	3	1	-	4	30	70	100
3	20CSEHR2C	Data Modeling and Simulation	3	1	-	4	30	70	100
4	20CSEHR2D	Data Visualization	3	1	-	4	30	70	100

POOL–3 (Artificial Intelligence)

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	20CSEHR3A	Automated Machine Learning	3	1	-	4	30	70	100
2	20CSEHR3B	Decision Support systems and Intelligent Systems	3	1	-	4	30	70	100
3	20CSEHR3C	Natural Language Processing	3	1	-	4	30	70	100
4	20CSEHR3D	Robotics and its Applications	3	1	-	4	30	70	100

POOL–4 (Networks & Security)

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	20CSEHR4A	Mobile Ad-hoc Networks	3	1	-	4	30	70	100
2	20CSEHR4B	5G Networks and Applications	3	1	-	4	30	70	100
3	20CSEHR4C	Cyber Security	3	1	-	4	30	70	100
4	20CSEHR4D	Information Security Management	3	1	-	4	30	70	100

BOS-Chairman   **Principal**