List of specialization offered by CSE department

S. No.	Course Code	Semester	Title of Course	L	T	P	Contact Hours	Credits
Specialization-1 : Data Analytics								
1	18B11CI916	III	Statistical Methods and Data Analysis	3	0	0	3	3
2	18B17CI976	III	Statistical Methods and Data Analysis Lab	0	0	2	2	1
3	18B11CI918	IV	Machine Learning	3	0	0	3	3
4	18B17CI996	IV	Machine Learning Lab	0	0	2	2	1
5	18B11CI917	V	Data Analytics Systems and Algorithms	3	0	0	3	3
6	18B17CI977	V	Data Analytics Lab	0	0	2	2	1
7	18B11CI919	VI	Information Retrieval	3	0	0	3	3
8	18B17CI979	VI	Information Retrieval Lab	0	0	2	2	1
9	18B17CI980	VII	Big Data Processing Lab	0	0	2	2	1
10	SE	VII	Elective	3	0	0	3	3
			Total				**25**	**20**

S. No.	Course Code	Semester	Title of Course	L	T	P	Contact Hours	Credits
Specialization-2 : Artificial Intelligence and Machine Learning								
1	18B11CI916	III	Statistical Methods and Data Analysis	3	0	0	3	3
2	18B17CI976	III	Statistical Methods and Data Analysis Lab	0	0	2	2	1
3	18B17CI996	IV	Machine Learning Lab	0	0	2	2	1
4	18B11CI918	IV	Machine Learning	3	0	0	3	3
5	18B11CI932	V	Artificial Neural Networks	3	0	0	3	3
6	18B11CI933	VI	Deep Learning	3	0	0	3	3
7	18B11CI934	VI	Soft Intelligence	3	0	0	3	3
8	SE	VII	Elective	3	0	0	3	3
			Total				**22**	**20**

		Specialization-3 : Internet of Robotic Things						
		Offered by ECE dept. with CSE dept. (For ECE and CSE students)						
S. No.	Course Code	Semester	Title of Course	L	T	P	Contact Hours	Credits
1	18B11CI916	III	Statistical Methods and Data Analysis	3	0	0	3	3
2	18B17CI976	III	Statistical Methods and Data Analysis Lab	0	0	2	2	1
3	18B11EC911	IV	Sensors, Actuators & Signal Processing	3	0	0	3	3
4	18B11EC314/ 18B11EC919	V	Measurement & Instrumentation (for CSE) Digital Control System (for ECE)	3	0	0	3	3
5	18B11CI918	VI	Machine Learning	3	0	0	3	3
6	18B17CI996	VI	Machine Learning Lab	0	0	2	2	Audit
7	18B11EC913	VII / VIII	Robotics & Machine Vision	3	0	0	3	3
8	18B17EC973	VII / VIII	Robotics Programming Lab	0	0	2	2	1
9	18B17CI997	VII / VIII	Internet of Things Lab	0	0	2	2	1
10	18B11CI937	VII / VIII	Internet of Things Technology and Applications	2	0	0	2	2
						Total	22	20

	Specialization-4: Digital Marketing (Offered by HSS)				
S. No.	Semester (B.Tech)	Course	Credits	L	T	P
1	III	Consumer behaviour	3	3	0	0
2	IV	Ethics, IPR and Cyber laws	3	3	0	0
3	V	Digital Marketing research	3	3	0	0
4	VI	Introduction to Social Media Marketing	3	3	0	0
5	VII	Digital Marketing	3	3	0	0
6	VIII	Digital Marketing Analytics	3	3	0	0
7	VIII	Minor Project	2			

	Specialization-5: Human Resource Management (Offered by HSS)				
S. No.	Semester (B.Tech)	Course	Credits	L	T	P
1	III	Human Resource Management	3	3	0	0
2	IV	Team Building and Leadership	3	3	0	0
3	V	Performance Management	3	3	0	0
4	VI	Training & Development	3	3	0	0
5	VII	Organizational Change	3	3	0	0
6	VIII	Negotiation & Counselling	3	3	0	0
7	VIII	Minor Project	2			

Specialization-6 : Cloud Computing

S. No.	Course Code	Dept.	Title of Course	L	T	P	Total	Credits
				Contact Hours				
1	18B11CI911	CSE	Grid Computing	3	0	0	3	3
2	18B17CI971	CSE	Grid Computing Lab	0	0	2	2	1
3	18B11CI912	CSE	Distributed Systems and Cloud Computing	3	0	0	3	3
4	18B17CI972	CSE	Distributed Systems and Cloud Computing Lab	0	0	2	2	1
5	18B11CI913	CSE	Cloud Computing Applications	3	0	0	3	3
6	18B17CI973	CSE	VMware vSphere Lab	0	0	2	2	1
7	18B11CI914	CSE	Cloud Networking	3	0	0	3	3
8	18B17CI974	CSE	Virtualization Lab	0	0	2	2	1
9	18B11CI915	CSE	Cloud Security	3	0	0	3	3
10	18B17CI975	CSE	Cloud Security Lab	0	0	2	2	1
			Total				25	20

Specialization-7 : System and Network Administration

S. No.	Course Code	Dept.	Title of Course	L	T	P	Total	Credits
				Contact Hours				
1	18B11CI921	CSE	Networks Architecture	3	0	0	3	3
2	18B17CI981	CSE	Network Architecture Lab	0	0	2	2	1
3	18B17CI982	CSE	Network Hardware Lab	0	0	2	2	1
4	18B11CI923	CSE	System & Network Communication	3	0	0	3	3
5	18B17CI983	CSE	SNC Lab	0	0	2	2	1
6	18B11CI924	CSE	OS Administration	3	0	0	3	3
7	18B17CI984	CSE	OS Administration Lab	0	0	2	2	1
8	18B11CI925	CSE	Wireless Networks	3	0	0	3	3
9	18B17CI985	CSE	Wireless Networks Lab	0	0	2	2	1
10	18B11CI922	CSE	Mobile Networks	3	0	0	3	3
			Total				25	20