

SR University						
BSC-Hons						
R25 Course Structure						
I SEM						
S No	Course Code	Course Name	L	R	P	C
1	25HUM204VA101	Professional and Personal Development	2	0	4	4
2	25EEE312MD103	Fundamentals of Electrical and Electronics	3	1	2	4.5
3	25SCI202AE106	Computational Life Sciences	2	0	2	3
4	25MAT310VA107	Applied Calculus and Differential Equations	3	1	0	3.5
5	25CAI310PC101	Discrete Mathematics	3	1	0	3.5
6	25BCA002VA05	Design and Innovation Practices	0	0	2	1
Total			13	3	10	19.5
* Actual lectures will be 4		Total Up to 1st Semester				19.5
II SEM						
S No	Course Code	Course Name	L	R	P	C
1	25BSC314PC102	Problem Solving using Python	3	1	4	5.5
2	25MAT310PC103	Applied Statistics and Probability	3	1	0	3.5
3	25BSC202PC104	Information Visualization & Analytics	2	0	2	3
4	25BSC302PC105	Data Base Management Systems	3	0	2	4
5	25BSC312CR101	Digital Computer Architecture	3	1	2	4.5
Total			14	3	10	20.5
		Total Up to 2nd Semester				40
III SEM						
S No	Course Code	Course Name	L	R	P	C
1	25BSC402PC201	Operating Systems and Networks Fundamentals	4	0	2	5
2	25BSC102PC202	Cloud Architecture & Deployment	1	0	2	2
3	25CAI004PC206	AI Assisted Coding	0	0	4	2
4	25BSC314PC203	Data Structures and Problem Solving	3	1	4	5.5
6		Program Elective-1	3	0	2	4
Total			11	1	14	18.5
		Total Up to 3rd Semester				58.5
IV SEM						
S No	Course Code	Course Name	L	R	P	C
1	25BSC304PC204	Mathematical Foundations of ML	3	0	4	5
2	25BSC304PC205	Low-Level Linux Programming	3	0	4	5
3		Program Elective-2	3	0	2	4
4		Program Elective-3	3	0	2	4
5		Program Elective-4	3	0	2	4
Total			15	0	14	22
		Total Up to 4th Semester				80.5
V SEM						
S No	Course Code	Course Name	L	R	P	C
1	25BSC314CR301	Design and Analysis of Algorithms	3	1	4	5.5
2	25BSC304PC301	Introduction to Artificial Intelligence and neural networks	3	0	4	5
3	25BSC202PC302	Software System Design and Engineering	2	0	2	3
4	25BSC302PC303	Object Oriented Programming concepts	3	0	2	4
5		Program Elective-5	3	0	2	4
Total			14	1	14	21.5
		Total Up to 5th Semester				102
VI SEM						
S No	Course Code	Course Name	L	R	P	C
1	25BSC036PR301	Major Project/Industrial Project/R&D Project/Industry Internship/Start-up/Externship	0	0	36	18
		Total Up to 8th Semester				120

Discipline Specific Elective(DS)=PE						
S No	Course Code	Course Name	L	R	P	C
1	25BCA302PE201	Digital Security and Forensics	3	0	2	4
2	25BCA302PE203	Computational Linguistics	3	0	2	4
3	25BCA302PE204	Unix/Linux Systems Programming	3	0	2	4
4	25BCA302PE301	Vision-based AI Systems	3	0	2	4
5	25BCA302PE302	Information Security and Cryptography	3	0	2	4
6	25BCA302PE303	Business Analytics and Data Mining	3	0	2	4
7	25BCA302PE304	Formal languages and Automata theory	3	0	2	4

8	25BCA302PE401	Generative Deep Learning	3	0	2	4
9	25BCA302PE402	Adaptive Learning Systems	3	0	2	4
10	25BCA302PE403	Interpretable Machine Learning	3	0	2	4
11	25BCA302PE404	Multi-Agent Systems	3	0	2	4

AE	Ability Enhance- ment Courses
EC	Skill Enhance ment courses
DS	Discipline Specific Elective
PC	Core Courses
VA	Value added Courses
MD	Multi-Discipli- nary Elective course
PE	Program Elective