

SR University						
BCA						
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	25BCA314PC102	Python Programming	3	1	4	5.5
2	25MAT310PC103	Applied Statistics and Probability	3	1	0	3.5
3	25BCA202PC104	Data Science and Visualization	2	0	2	3
4	25BCA302PC105	Database and Information Management	3	0	2	4
5	25BCA312CR101	Computer Architecture and organization	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	25BCA402PC201	Operating Systems and Networks	4	0	2	5
2	25BCA102PC202	Cloud Infrastructure and Services	1	0	2	2
3	25CAI004PC206	AI Assisted Coding	0	0	4	2
4	25BCA314PC203	Foundations of Data Structures	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	25BCA304PC204	Statistical Machine Learning	3	0	4	5
2	25BCA304PC205	Linux System 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	25BCA314CR301	Analysis Algorithms	3	1	4	5.5
2	25BCA304PC301	Artificial Intelligence and neural networks	3	0	4	5
3	25BCA202PC302	Software Engineering	2	0	2	3
4		Program Elective-5	3	0	2	4
5		Program Elective-6	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	25BCA036PR301	Major Project/Industrial Project/R&D Project/Indus	0	0	36	18
		Total Up to 8th Semester				120

Discipline Specific Elective(DS)=PE(Program Elective)						
S No	Course Code	Course Name	L	R	P	C
1	25BCA302PE201	Digital Security and Forensics	3	0	2	4
2	25BCA302PE202	OOPs through Java	3	0	2	4
3	25BCA302PE203	Computational Linguistics	3	0	2	4
4	25BCA302PE204	Unix/Linux Systems Programming	3	0	2	4
5	25BCA302PE301	Vision-based AI Systems	3	0	2	4
6	25BCA302PE302	Information Security and Cryptography	3	0	2	4
7	25BCA302PE303	Business Analytics and Data Mining	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