

### List of Electives in E3 & E4

Course Code	Name of the Course	L	T&PS	P	Credits
CS3501	Unix & Shell Programming	2	2	0	4
CS3502	Scripting Languages	2	2	0	4
CS3503	Computer Graphics & Multimedia	2	2	0	4
CS3504	Machine Learning	2	2	0	4
CS3505	Cryptography & Network Security	2	2	0	4
CS3506	Distributed Systems	2	2	0	4
CS3507	Object Oriented Analysis & Design	2	2	0	4
CS3508	Advanced Algorithms	2	2	0	4
CS3601	Compiler Design	2	2	0	4
CS3602	Data Sciences & Big data Analytics	2	2	0	4
CS3603	Applied Graph Theory	2	2	0	4
CS3604	High Performance Computing	2	2	0	4
CS3605	Data Mining	2	2	0	4
CS3606	High Speed Networks	2	2	0	4
CS3607	Cyber Security	2	2	0	4
CS4501	Natural Language Processing	2	2	0	4
CS4502	Digital Image Processing	2	2	0	4
CS4503	Software Testing	2	2	0	4
CS4504	Information Retrieval	2	2	0	4
CS4505	Software Reliability Engineering	2	2	0	4
CS4506	Internet of Things	2	2	0	4
CS4507	Advanced Cloud Computing	2	2	0	4
CS4508	Software Architecture & Design Patterns	2	2	0	4
CS4601	Real Time Operating System	2	2	0	4
CS4602	Parallel Algorithms	2	2	0	4
CS4603	Soft computing	2	2	0	4
CS4604	Mobile Adhoc Networks	2	2	0	4
CS4605	Human Computer Interaction	2	2	0	4
CS4606	Pattern Recognition and Applications	2	2	0	4
CS4607	Artificial Intelligence	2	2	0	4
CS4608	Programming for everybody using Python	2	2	0	4
<b>Other Subjects</b>					
BM1301	Organizational Behaviour and Management	2	2	0	4
BM1302	Managerial Economics	2	2	0	4
HS3201	Environmental Science	2	2	0	4
CS4609	Bioinformatics	2	2	0	4