VI SEMESTER Electives (2018-22 BATCH)

		VI SEIVIESTER E	lective	25 (20	19-22	DAIL	.п)		
Elective -	- III		1	1	1	1	1		
9	UE18CS331	Generic Programming [#]	4	0	0	4	4	C, C++, C#	EC
10	UE18CS332	Algorithms for Intelligence Web and Information Retrieval**	4	0	0	4	4	Scikit, Tensorflow, Solr, Lucene Search Engines/ Python	EC
11	UE18CS333	Digital Image Processing**	4	0	0	4	4	Matlab	EC
12	UE18CS334	Natural Language Processing ^{##}	4	0	0	4	4	Tensorflow, Spacy, NLTK, SCIKIT Learn/ Python 3.x	EC
13	UE18CS335	Computer Network Security ^{%%}	4	0	0	4	4	Seed Labs, Wireshark, netwox, Scapy	EC
14	UE18CS336	Wireless Network Communication ^{%%}	4	0	0	4	4	Claynet, Python	EC
15	UE18CS337	Cyber Forensics	4	0	0	4	4	Open source Forensics Tools	EC
16	UE18CS338	Enterprise and Resource Planning	4	0	0	4	4		EC
17	UE18CS339	Hardware Accelerated Computing [?]	4	0	0	4	4		EC
Elective -	– IV								
18	UE18CS341	Design Patterns**	4	0	0	4	4	UML/ Python	EC
19	UE18CS342	Heterogeneous Parallelism ^{!!!}	4	0	0	4	4	pthread, OpenMP CUDA, openCL, Chapel, UPC.	EC
20	UE18CS343	Topics in Deep Learning ^{&&&}	4	0	0	4	4	Tensorflow 1.15, Keras 2.3.1/ Python 3.7	EC
21	UE18CS344	Advance Computer Networks***	4	0	0	4	4	Claynet, Cisco packet tracer	EC

22	UE18CS345	Bio-inspired Computing**	4	0	0	4	4	Matlab	EC
23	UE18CS346	Social Network Analytics ^{%%%}	4	0	0	4	4	Gephi, VNetLogo, NetwotkX, SocNetV	EC
24	UE18CS347	Information Security	4	0	0	4	4	Seed Labs, Scapy, Burp-Suit,N- Map, 'C'	EC
25	UE18CS348	Human Computer Interaction	4	0	0	4	4		EC

Note: Desirable Knowledge: ¹UE18CS202, UE18CS254, ^{@®}UE18CS301, UE18CS302.

Pre-requisite Courses: [#]UE18CS151, UE18CS202, UE18CS251 **- UE18CS251, ^{##}UE18CS303, ^{%%}UE18CS301.

Pre-requisite Courses: ^{!!!}-UE18CS151, UE18CS253, ^{&&&}-UE18CS303, ^{***}UE18CS301, ^{%%*}UE18CS202, UE18MA251, [?] UE18CS201.

ELECTIVES TO BE OPTED FOR SPECIALIZATION

Sl. No.	SPECIALIZATION	ELECTIVE – III	ELECTIVE – IV		
		UE18CS331,	UE18CS341,		
Α	System and Core Computing(SCC)	UE18CS332,	UE18CS342		
		UE18CS339.			
В	Machine Intelligence and Data Science(MIDS)	UE18CS332,	UE18CS343,		
		UE18CS333,	UE18CS345		
		UE18CS334,	UE18CS346,		
		UE18CS335,	UE18CS347,		
		UE18CS338.	UE18CS348.		
С		UE18CS335,	UE18CS344,		
	Network and Cyber Security(NWCS)	UE18CS336,	UE18CS347.		
		UE18CS337.			