	Minimum Credits to be Ear	rned 207.0					
First Semeste	r						
		Objective	s & Outcomes				
Code No.	Course	Objectives &Outcomes		L	т	Р	C
		PEOs	POs				
20Al101	ENGINEERING MATHEMATICS I	<u> </u>	a,b	3	1	0	4
20Al102	ENGINEERING PHYSICS I	1,111	a,b,i	2	0	2	3
20AI103	ENGINEERING CHEMISTRY I	<u> </u>	a,b,g	2	0	2	3
20AI104	PROGRAMMING FOR PROBLEM SOLVING	I,II	a,b,d	2	0	2	3
20AI105	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	I,II	a,b,c,d,l	2	0	2	3
20HS101	COMMUNICATIVE ENGLISH I	III	i,j	1	0	2	2
			Total	12	1	10	18.0
Second Seme	ster						
	Course	Objective	Objectives &Outcomes				
Code No.		•		L	T	P	C
		PEOs	POs	_			
20Al201	ENGINEERING MATHEMATICS II	<u> </u>	a,b	3	1	0	4
20Al202	ENGINEERING PHYSICS II	I,III	a,b,i	2	0	2	3
20AI203	ENGINEERING CHEMISTRY II	Į	a,b,g	2	0	2	3
20Al204	APPLICATION BASED PROGRAMMING IN PYTHON	1,11	a,b,c	3	0	2	4
20AI205	DIGITAL SYSTEM DESIGN	I,II	a,b,c	3	0	2	4
	LANGUAGE ELECTIVE	-	-	-	-	-	2
			Total	13	1	8	20.0
Third Semest							
	I	Ob!	2 Out				
Code No.	Course	Objectives	s &Outcomes	L	Т	Р	l c
		PEOs	POs				
20Al301	PROBABILITY AND STATISTICS	1,11	a,b,c,d	3	1	0	4
20Al302	DATA STRUCTURES USING CPP	1,11	a,b,c	3	0	0	3
20Al303	PRINCIPLES OF OPERATING SYSTEM	1,11	a,b,c	3	0	0	3
20Al304	COMPUTER ORGANIZATION AND ARCHITECTURE	1,11	a,b,c	3	0	0	3
20Al305	DATABASE MANAGEMENT SYSTEMS			3	0	0	3
		1,11	a,b,c,e	_	·		
20Al306	JAVA PROGRAMMING	1,11	a,b,c,e	2	0	2	3
20Al307	DATA STRUCTURES LABORATORY	I,II	a,b,c	0	0	4	2
20Al308	DATABASE MANAGEMENT SYSTEMS LABORATORY	I,II	a,b,c,e	0	0	4	2
18GE301	SOFT SKILLS - VERBAL ABILITY	1,111	i,j,k	2	0	0	0
			Total	19	1	10	23.0
Fourth Semes	ter						
		Objective	s &Outcomes				
Code No.	Course			L	т	Р	C
10110001	510 (D 010 15 17 1 1 0 0 15 1 0 5	PEOs	POs	_			
18HS001	ENVIRONMENTAL SCIENCE	-	-	2	0		
20AI401	APPLIED LINEAR ALGEBRA		a h			0	0
		I	a,b	3	1	0	4
20AI402	DESIGN AND ANALYSIS OF ALGORITHMS	I I,II	a,b,c	3	1	0	4
20Al402 20Al403	DESIGN AND ANALYSIS OF ALGORITHMS DATA WAREHOUSING AND DATA MINING	1,11 1,11		-	1	0	4
			a,b,c	3	1	0	4
20Al403	DATA WAREHOUSING AND DATA MINING	I,II	a,b,c a,b,d,e	3	1 0 0	0 0 2	3 3
20Al403 20Al404	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS	I,II I,II,III	a,b,c a,b,d,e a,b,c,e,h,j,l	3 2 3	1 0 0	0 0 2 0	4 3 3 3
20Al403 20Al404 20Al405	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE	I,II I,II,III I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d	3 3 3	1 0 0 0	0 0 2 0	4 3 3 3 3
20Al403 20Al404 20Al405 20Al406	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING	1,11 1,11,111 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d	3 3 3	1 0 0 0 0	0 0 2 0 0 0 0	3 3 3 3 3
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY	1,11 1,11,111 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e	3 2 3 3 0 0	1 0 0 0 0 0	0 0 2 0 0 0 4 4	4 3 3 3 3 3 2 2
20Al403 20Al404 20Al405 20Al406 20Al407	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY	1,11 1,11,111 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l	3 2 3 3 3 0 0	1 0 0 0 0 0 0	0 0 2 0 0 0 0 4 4	4 3 3 3 3 3 2 2
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING	1,11 1,11,111 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e	3 2 3 3 0 0	1 0 0 0 0 0	0 0 2 0 0 0 4 4	4 3 3 3 3 3 2 2
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING	1,11 1,11,111 1,11 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l	3 2 3 3 3 0 0	1 0 0 0 0 0 0	0 0 2 0 0 0 0 4 4	4 3 3 3 3 3 2 2
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING	1,11 1,11,111 1,11 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l	3 2 3 3 3 0 0 2 21	1 0 0 0 0 0 0 0	0 0 2 0 0 0 4 4 0	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING	1,11 1,11,111 1,11 1,11 1,11 1,11	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0	1 0 0 0 0 0 0	0 0 2 0 0 0 0 4 4	4 3 3 3 3 3 2 2
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING COURSE	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l	3 2 3 3 3 0 0 2 21	1 0 0 0 0 0 0 0	0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester Code No.	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 2 21	1 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 0 2 21 L 3 3 3	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 0 2 21 L 3 3 3 3 3 3	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 3 0 0 0 2 21 L 3 3 3 3 3 3 3 3 3	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504 21Al507	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING COURSE SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 0 2 21 L	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING COURSE SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 2 21 L 3 3 3 3 0 0 0	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504 21Al507	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 0 2 21 L	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING COURSE SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 2 3 3 3 0 0 2 21 L 3 3 3 3 0 0 0	1 0 0 0 0 0 0 0 0 0 1	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508 21Al018	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 3 3 3 0 0 2 21 L	1 0 0 0 0 0 0 0 0 0 1 T	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 3 2 2 0 23.0 23.0
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508 21Al018 21Al018	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING ** **Course* SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS ROBOTIC PROCESS AUTOMATION	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 3 3 3 0 0 2 21 L 3 3 3 3 0 0 0 2 2 3 3 3 3 3 3 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 1 T	0 0 0 2 0 0 0 4 4 0 10	4 3 3 3 3 2 2 0 23.0 C
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508 21Al018 21Al019 21Al036	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING T Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS ROBOTIC PROCESS AUTOMATION DIGITAL MARKETING AND TECHNIQUES	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 3 3 3 0 0 2 21 L 3 3 3 3 0 0 0 2 21 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 0 0 0 0 0 0 0 0 0 1 1	0 0 0 2 0 0 0 4 4 0 10 P	4 3 3 3 3 2 2 0 23.0 C 3 4 3 3 2 2 3 3 3 3 3 3 2 2 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semeste Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508 21Al019 21Al019 21Al036 21AlH01 21AlH01	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING Course SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS ROBOTIC PROCESS AUTOMATION DIGITAL MARKETING AND TECHNIQUES AGILE SOFTWARE DEVELOPMENT UI AND UX DESIGN	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 3 3 3 0 0 2 21 21 L 3 3 3 3 3 0 0 0 0 3 3 3 3 3 3 3 3 3 3	1 0 0 0 0 0 0 0 0 0 1 1	0 0 0 2 0 0 0 4 4 0 10 P 0 0 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0	4 3 3 3 3 3 2 2 0 23.0 C 3 4 3 3 2 2 3 3 3 3 3 3 2 2 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
20Al403 20Al404 20Al405 20Al406 20Al407 20Al408 18GE401 Fifth Semester Code No. 21Al501 21Al502 21Al503 21Al504 21Al507 21Al508 21Al018 21Al019 21Al036 21Al036 21AlH01	DATA WAREHOUSING AND DATA MINING COMPUTER NETWORKS ARTIFICIAL INTELLIGENCE STATISTICAL MACHINE LEARNING ARTIFICIAL INTELLIGENCE LABORATORY STATISTICAL MACHINE LEARNING LABORATORY SOFT SKILLS-REASONING COURSE SOFTWARE ENGINEERING AND TESTING METHODOLOGIES DEEP LEARNING ANALYTICS IN COUD COMPUTING PROGRAMMING FOR DATA SCIENCE PROGRAMMING FOR DATA SCIENCE LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY ANALYTICS IN COUD COMPUTING LABORATORY MALWARE ANALYSIS ROBOTIC PROCESS AUTOMATION DIGITAL MARKETING AND TECHNIQUES AGILE SOFTWARE DEVELOPMENT	I,II I,II,III I,II I,II I,II I,II I,II	a,b,c a,b,d,e a,b,c,e,h,j,l a,b,c,d a,b,c,d,e,f,l a,b,c,d a,b,c,d,e a,e,h,j,l Total	3 3 3 3 0 0 2 21 L 3 3 3 3 3 0 0 0 2 2 3 3 3 3 3 3 3 3 3 3	1 0 0 0 0 0 0 0 0 0 1 1	0 0 0 2 0 0 0 4 4 0 10 P 0 0 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0	4 3 3 3 3 2 2 0 23.0 C 3 4 3 3 2 2 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3

20Al502	DEEP LEARNING	<u> </u>		3	1	0	4
20AI502 20AI503	ANALYTICS IN CLOUD COMPUTING			3	0	0	3
			-	-			
20Al504	PROGRAMMING FOR DATA SCIENCE	-	-	3	0	0	3
	PROFESSIONAL ELECTIVE I	-	-	-	-		3
	PROFESSIONAL ELECTIVE II	-	-	-	-	-	3
20AI507	PROGRAMMING FOR DATA SCIENCE LABORATORY	-	-	0	0	4	2
20AI508	ANALYTICS IN CLOUD COMPUTING LABORATORY	-	-	0	0	4	2
18GE501	SOFT SKILLS - APTITUDE I	-	-	0	0	2	0
			Total	42	2	18	58.0
Sixth Semeste	er						
Code No.	Course	Objectives	&Outcomes	L	т	P	c
oode No.	Course	PEOs	POs	-	'	'	ľ
20Al601	DATA SECURITY		-	3	1	0	4
20Al602	COMPUTER VISION	-	-	3	0	0	3
20AI603	DATA VISUALIZATION	-	-	3	0	2	4
20Al604	NATURAL LANGUAGE PROCESSING	-	-	3	0	0	3
20/1004	PROFESSIONAL ELECTIVE III			-	-		3
	PROFESSIONAL ELECTIVE IV		_				3
00 41007			-	-	-	-	
20Al607	NATURAL LANGUAGE PROCESSING LABORATORY	-	-	0	0	4	2
20Al608	COMPUTER VISION LABORATORY	-	-	0	0	4	2
18GE601	SOFT SKILLS-APTITUDE II	-	-	0	0	2	0
			Total	12	1	12	24.0
Seventh Seme	ester						
O-d-N-	2	Objectives	&Outcomes	١. ا	_		١ .
Code No.	Course	PEOs	POs	L	Т	P	С
18HS002	PROFESSIONAL ETHICS IN ENGINEERING	PEUS	FUS	2	0	0	2
20Al702	IOT ANALYTICS		-		0	0	
			-	3			3
20Al703	SOCIAL MEDIA ANALYSIS	-	-	3	0	0	3
20Al704	AI FOR ROBOTICS	-	-	3	1	0	4
	PROFESSIONAL ELECTIVE V	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE VI	-	-	-	-	-	3
20Al707	IOT ANALYTICS LABORATORY	-	-	- 0	- 0	4	2
20Al707 20Al708		-	- - -	- 0 0	- 0 0	- 4 6	
20Al708	IOT ANALYTICS LABORATORY PROJECT WORK I	- - -	- - - Total	-			2
	IOT ANALYTICS LABORATORY PROJECT WORK I	-	- - - Total	0	0	6	2
20Al708 Eight Semeste	IOT ANALYTICS LABORATORY PROJECT WORK I er	- - - Objectives	- - - Total	0	0	6 10	2 3 23.0
20Al708	IOT ANALYTICS LABORATORY PROJECT WORK I		&Outcomes	0	0	6	2
20Al708 Eight Semeste	IOT ANALYTICS LABORATORY PROJECT WORK I er Course	Objectives		0	0	6 10	2 3 23.0
20Al708 Eight Semeste	PROJECT WORK I Course PROFESSIONAL ELECTIVE VII		&Outcomes	0 11 L	0	6 10	2 3 23.0 C
20Al708 Eight Semeste	PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII		&Outcomes	0	0	6 10	2 3 23.0 C 3 3
20AI708 Eight Semeste Code No.	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX		&Outcomes	0 11 L	0 1 T	6 10 P	2 3 23.0 C 3 3 3
20Al708 Eight Semeste	PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII		&Outcomes POs	0 11 L	T 0	6 10 P	2 3 23.0 C 3 3 3 9
20Al708 Eight Semeste Code No.	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX		&Outcomes	0 11 L	0 1 T	6 10 P	2 3 23.0 C 3 3 3
20Al708 Eight Semeste Code No.	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX		&Outcomes POs	0 11 L	T 0	6 10 P	2 3 23.0 C 3 3 3 9
20Al708 Eight Semeste Code No. 20Al804 Electives	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II	PEOs	&Outcomes POs	L 0 0	T 0 0	P 18 18	2 3 23.0 C 3 3 3 9 18.0
20Al708 Eight Semeste Code No.	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX	PEOs Objectives	&Outcomes POs Total	0 11 L	T 0	6 10 P	2 3 23.0 C 3 3 3 9
20Al708 Eight Semeste Code No. 20Al804 Electives Code No.	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course	PEOs	&Outcomes POs Total	L 0 0	T 0 0	P 18 18	2 3 23.0 C 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course	PEOs Objectives	&Outcomes POs Total	0 0 L	T 0 0	P 18 18 P	2 3 23.0 C 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005	IOT ANALYTICS LABORATORY PROJECT WORK I PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course Y BLOCKCHAIN TECHNOLOGY	PEOs Objectives	&Outcomes POs Total	0 11 L - - 0 0	T 0 0 T	P 18 18 18 P	2 3 23.0 C 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017	PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING	PEOs Objectives	&Outcomes POs Total	0 11 L 0 0 0	0 1 T 0 0 0 T T	P 18 18 P 0 0	2 3 23.0 C 3 3 3 9 18.0
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al0YA	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE	PEOs Objectives	&Outcomes POs Total	0 11 L - - 0 0	T 0 0 T	P 18 18 18 P	2 3 23.0 C 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI0YA DISCIPLINE E	IOT ANALYTICS LABORATORY PROJECT WORK I FOR COURSE PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course EY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES	PEOs Objectives	&Outcomes POs Total	0 11 L - - 0 0 0	T 0 0 0 0 0	P 18 18 18 P 0 0 0	2 3 23.0 c 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI0YA DISCIPLINE E 20AI011	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course Y BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION	PEOs Objectives	&Outcomes POs Total	0 11 L 0 0 0 L	T 0 0 0 0 0 0 0	P 18 18 18 P 0 0 0 0	2 3 23.0 c 3 3 3 9 18.0
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI0YA DISCIPLINE E 20AI011 20AI014	IOT ANALYTICS LABORATORY PROJECT WORK I FOR COURSE PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II COURSE Y BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS	PEOs Objectives	&Outcomes POs Total	0 111 L 0 0 0 1 3 3 3 3 3 3 3 3 3	T	P 18 18 18 P 0 0 0 0 0 0 0	2 3 23.0 c 3 3 3 9 18.0 c
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al0YA DISCIPLINE E 20Al011 20Al014 20Al021	IOT ANALYTICS LABORATORY PROJECT WORK I FOR COURSE PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II COURSE RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION	PEOs Objectives	&Outcomes POs Total	L 3 3 3 3 3 3 3 3 3 3	T	P 18 18 18 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 23.0 c 3 3 3 9 18.0 c
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al011 20Al014	IOT ANALYTICS LABORATORY PROJECT WORK I FOR COURSE PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II COURSE Y BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS	PEOs Objectives	&Outcomes POs Total	0 111 L 0 0 0 1 3 3 3 3 3 3 3 3 3	T	P 18 18 18 P 0 0 0 0 0 0 0	2 3 23.0 c 3 3 3 9 18.0 c
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al0YA DISCIPLINE E 20Al011 20Al014 20Al021	IOT ANALYTICS LABORATORY PROJECT WORK I FOR COURSE PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II COURSE RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION	PEOs Objectives	&Outcomes POs Total	L 3 3 3 3 3 3 3 3 3 3	T	P 18 18 18 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 23.0 c 3 3 3 9 18.0 c
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al011 20Al014 20Al021 20Al023 20Al026	IOT ANALYTICS LABORATORY PROJECT WORK I PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING	PEOs Objectives	&Outcomes POs Total	L	T	P	2 3 23.0 c 3 3 3 9 18.0 c c
20Al708 Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al011 20Al014 20Al021 20Al023 20Al026	IOT ANALYTICS LABORATORY PROJECT WORK I PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING	PEOs Objectives	&Outcomes POs Total	L	T	P	2 3 23.0 c 3 3 3 9 18.0 c c
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI07A DISCIPLINE E 20AI011 20AI021 20AI023 20AI026 ONE CREDIT	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES	PEOs Objectives	&Outcomes POs Total	L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T	P	2 3 23.0 C 3 3 3 9 18.0 C
Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al014 20Al021 20Al023 20Al026 ONE CREDIT 20Al0XA 20Al0XB	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course EY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW	PEOs Objectives	&Outcomes POs Total	0 11 L	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	2 3 23.0 C 3 3 3 9 18.0 C C
Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al014 20Al021 20Al023 20Al026 ONE CREDIT 20Al0XA 20Al0XB	IOT ANALYTICS LABORATORY PROJECT WORK I The state of the	PEOs Objectives	&Outcomes POs Total	0 11 L	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	2 3 23.0 C 3 3 3 9 18.0 C C
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI014 20AI014 20AI021 20AI023 20AI026 ONE CREDIT 20AI0XA 20AI0XB ADDITIONAL	IOT ANALYTICS LABORATORY PROJECT WORK I PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course Y BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW TABLEAU ONE CREDIT COURSE	PEOs Objectives	&Outcomes POs Total	0 11 L	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	2 3 23.0 C 3 3 3 9 18.0 C
Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al011 20Al021 20Al023 20Al026 ONE CREDIT 20Al0XA 20Al0XB ADDITIONAL 18GE0XF 18GE0XL	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW TABLEAU ONE CREDIT COURSE VEDIC MATHEMATICS NATIONAL CADET CORPS	PEOs Objectives	&Outcomes POs Total	0 111 L 0 0 0 L 3 3 3 3 3 3 3 3 3 3 3 1 1 1 1	T	P	2 3 23.0 C 3 3 3 9 18.0 C C
Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al0YA DISCIPLINE E 20Al011 20Al021 20Al023 20Al026 ONE CREDIT 20Al0XA 20Al0XB ADDITIONAL 18GE0XF 18GE0XL	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW TABLEAU ONE CREDIT COURSE VEDIC MATHEMATICS NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES	PEOs Objectives	&Outcomes POs Total	0 111 L 0 0 0 L 3 3 3 3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1	T	P	2 3 23.0 c 3 3 3 9 18.0 c c 3 3 3 3 3 3 3 1 1 1
Eight Semeste Code No. 20Al804 Electives Code No. CORE-THEOR 20Al005 20Al017 20Al07A DISCIPLINE E 20Al011 20Al021 20Al023 20Al026 ONE CREDIT 20Al0XA 20Al0XB ADDITIONAL 18GE0XF 18GE0XN LANGUAGE E	IOT ANALYTICS LABORATORY PROJECT WORK I PROJECT WORK I Course PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course Y BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW TABLEAU ONE CREDIT COURSE VEDIC MATHEMATICS NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES ELECTIVES	PEOs Objectives	&Outcomes POs Total	11 L	T	P	2 3 23.0 c 3 3 3 9 18.0 c c 3 3 3 3 3 3 1 1 1
20AI708 Eight Semeste Code No. 20AI804 Electives Code No. CORE-THEOR 20AI005 20AI017 20AI07A DISCIPLINE E 20AI014 20AI021 20AI023 20AI026 ONE CREDIT 20AI0XA 20AI0XB ADDITIONAL 18GE0XF 18GE0XL	IOT ANALYTICS LABORATORY PROJECT WORK I Course PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX PROJECT WORK II Course RY BLOCKCHAIN TECHNOLOGY TIME SERIES ANALYSIS AND FORECASTING FUNDAMENTALS OF DATA SCIENCE LECTIVES HUMAN COMPUTER INTERACTION BIG DATA ANALYTICS PATTERN RECOGNITION BUSINESS ANALYTICS DIGITAL MARKETING COURSES TENSOR FLOW TABLEAU ONE CREDIT COURSE VEDIC MATHEMATICS NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES	PEOs Objectives	&Outcomes POs Total	0 111 L 0 0 0 L 3 3 3 3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1	T	P	2 3 23.0 c 3 3 3 9 18.0 c c 3 3 3 3 3 3 3 1 1 1

18HSJ01 18HSC01	JAPANESE	T-	-	1	0	2	2
	CHINESE	 -	-	1	0	2	2
18HSF01	FRENCH	-	-	1	0	2	2
18HS201	COMMUNICATIVE ENGLISH II	-	-	1	0	2	2
OPEN ELECTI			<u>I</u>		_		
18AE0YA	NON-DESTRUCTIVE TESTING	1-	1-	3	0	0	3
18AE0YB	SMART MATERIALS	 -	-	3	0	0	3
18AE0YC	FUNDAMENTALS OF AIRCRAFT ENGINEERING	 -	-	3	0	0	3
404000	ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY	+	†	2	0	0	
18AG0YA	MANAGEMENT FOOD INDUSTRY	1	-	3	0	0	3
18AG0YB	HUMAN ENGINEERING AND SAFETY IN AGRICULTURE	-	-	3	0	0	3
18AG0YC	ENERGY MANGEMENT IN AGRICULTURE	-	-	3	0	0	3
18AG0YD	FARM MECHANISATION	-	-	3	0	0	3
18AU0YA	AUTOMOTIVE ENGINEERING	-	-	3	0	0	3
18AU0YB	VEHICLE CONTROL SYSTEMS	-	-	3	0	0	3
18AU0YC	PUBLIC TRANSPORT MANAGEMENT	-	-	3	0	0	3
18AU0YD	TECHNOLOGIES FOR GREEN MOBILITY	-	-	3	0	0	3
18AU0YE	TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES	-	-	3	0	0	3
18BT0YA	BIOFUELS	1-	-	3	0	0	3
18BT0YB	MUSHROOM CULTIVATION AND VERMICOMPOSTING	-	-	3	0	0	3
18BT0YC	FORENSIC TECHNOLOGY	-	-	3	0	0	3
18CE0YA	GREEN BUILDINGS	-	-	3	0	0	3
18CE0YB	DISASTER PREPAREDNESS AND PLANNING	1-	-	3	0	0	3
18CE0YC	ENVIRONMENTAL IMPACT ASSESSMENT	1-	-	3	0	0	3
18CE0YD	BUILDING SERVICES	 	-	3	0	0	3
18CE0YE	INDUSTRIAL WASTE MANAGEMENT	1-	-	3	0	0	3
18CE0YF	WEALTH FROM WASTE	1-	1-	3	0	0	3
18CE0YG	RISK AND SAFETY MANAGEMENT	-	-	3	0	0	3
18CE0YH	ENERGY SCIENCE AND ENGINEERING	-	-	3	0	0	3
18CE0YI	CONCEPTS OF REMOTE SENSING	-	-	3	0	0	3
18CS0YA	E-LEARNING TECHNIQUES	 -	-	3	0	0	3
18CS0YB	SOFTWARE TESTING AND QUALITY ASSURANCE	+		3	0	0	3
18CS0YC	JAVA FUNDAMENTALS	 	<u> </u>	3	0	0	3
18CS0YD	NETWORK ENGINEERING AND MANAGEMENT	+		3	0	0	3
18CS0YE	AGENT BASED INTELLIGENT SYSTEMS	+		3	0	0	3
18CS0YF	E-BUSINESS	+		3	0	0	3
18CS0YG	KNOWLEDGE DISCOVERY IN DATABASES	+		3	0	0	3
18CS0YH	SOCIAL NETWORK ANALYSIS CONCEPTS	<u> </u>					
10030111	ISOCIAL NETWORK ANALTSIS CONCEPTS						1 2
10CC0VI	ODEDATING SYSTEM CONCEDTS	ļ-	<u> </u>	3	0	0	3
18CS0YI	OPERATING SYSTEM CONCEPTS	-	-	3	0	0	3
18CS0YJ	OBJECT ORIENTED PROGRAMMING	- - -	-	3	0	0	3
18CS0YJ 18EC0YA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS	-	-	3 3	0 0	0 0	3 3 3
18CS0YJ 18EC0YA 18EC0YB	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS	-	-	3 3 3	0 0 0	0 0 0	3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING	-	-	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING	-	- - - -	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YE	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB	-	- - - - -	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YE 18EC0YF	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES	-	- - - - -	3 3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYD 18ECOYE 18ECOYF 18ECOYG	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS	-	- - - - - -	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YF 18EC0YF 18EC0YG 18EC0YH	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS	-	- - - - - - -	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YF 18EC0YF 18EC0YG 18EC0YH 18EC0YH	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING	- - - - - - - - -	- - - - - - - -	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YE 18EC0YF 18EC0YG 18EC0YH 18EC0YI 18EC0YJ	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS	- - - - - - - - -	- - - - - - - - -	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YF 18EC0YF 18EC0YG 18EC0YH 18EC0YJ 18EC0YJ	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT	- - - - - - - - - - -	- - - - - - - - -	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YD 18EC0YF 18EC0YF 18EC0YG 18EC0YH 18EC0YJ 18EC0YJ 18EC0YJ 18EE0YA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY	- - - - - - - - - - - -	- - - - - - - - - - - -	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0YJ 18EC0YA 18EC0YB 18EC0YC 18EC0YC 18EC0YF 18EC0YF 18EC0YF 18EC0YH 18EC0YH 18EC0YJ 18EC0YJ 18EE0YA 18EE0YA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL		- - - - - - - - - - - - -	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYD 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYJ 18ECOYJ 18EEOYA 18EEOYA 18EEOYC 18EIOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS		- - - - - - - - - - - - - -	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYD 18ECOYF 18ECOYF 18ECOYH 18ECOYH 18ECOYJ 18ECOYJ 18EEOYA 18EEOYA 18EEOYC 18EIOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYI 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EEOYC 18EIOYA 18EIOYB	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYJ 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EEOYA 18EIOYA 18EIOYA 18EIOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYI 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYH 18ECOYH 18ECOYH 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EEOYC 18EIOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYD 18FOOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYH 18ECOYH 18ECOYH 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYD 18FOOYA 18FOOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYJ 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EEOYC 18EIOYA 18EIOYB 18EIOYC 18EIOYC 18FIOYA 18FDOYA 18FDOYC 18FTOYA	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EIOYA 18EIOYA 18EIOYB 18EIOYC 18EIOYD 18FDOYA 18FDOYC 18FTOYA 18FTOYB	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOYH 18ECOYH 18ECOYJ 18EEOYA 18EEOYA 18EEOYA 18EIOYA 18EIOYA 18EIOYA 18EIOYC 18EIOYD 18FDOYC 18FDOYA 18FDOYC 18FTOYA 18FTOYB	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOY	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18EOYC 18EIOYC 18EIOYC 18FOYC 18FTOYC 18FTOYC 18FTOYC 18FTOYC	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOY	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOYJ 18ECOYA 18ECOYB 18ECOYC 18ECOYC 18ECOYC 18ECOYF 18ECOYF 18ECOYF 18ECOYG 18ECOYH 18ECOY	OBJECT ORIENTED PROGRAMMING BASICS OF ANALOG AND DIGITAL ELECTRONICS AUTOMOTIVE ELECTRONICS PCB DESIGN AND PROTOTYPING MICROCONTROLLER PROGRAMMING ENGINEERING COMPUTATION WITH MATLAB BASICS OF HARDWARE DESCRIPTION LANGUAGES FUNDAMENTALS OF EMBEDDED SYSTEMS PRINCIPLES OF COMMUNICATION SYSTEMS ELECTRONIC PRODUCT DESIGN AND PACKAGING PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS ENERGY CONSERVATION AND MANAGEMENT ELECTRICAL SAFETY INDUSTRIAL DRIVES AND CONTROL PROGRAMMABLE LOGIC CONTROLLERS SENSOR TECHNOLOGY FUNDAMENTALS OF VIRTUAL INSTRUMENTATION OPTOELECTRONICS AND LASER INSTRUMENTATION TRADITIONAL FOODS FOOD LAWS AND REGULATIONS POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

18GE04	COST MANAGEMENT OF ENGINEERING PROJECTS	-	-	3	0	0	3
18GE05	COMPOSITE MATERIALS	-	-	3	0	0	3
18GE06	WASTE TO ENERGY	-	-	3	0	0	3
18IT0YA	DATABASE MANAGEMENT SYSTEMS	-	-	3	0	0	3
18IT0YB	DATA STRUCTURES AND ALGORITHMS	-	-	3	0	0	3
18IT0YC	DATA SCIENCES AND ANALYTICS	-	-	3	0	0	3
18IT0YD	OBJECT ORIENTED PROGRAMMING	-	-	3	0	0	3
18IT0YE	ARTIFICIAL INTELLIGENCE	-	-	3	0	0	3
18ME0YA	INDUSTRIAL PROCESS ENGINEERING	-	-	3	0	0	3
18ME0YB	SAFETY ENGINEERING	-	-	3	0	0	3
18ME0YC	MAINTENANCE ENGINEERING	-	-	3	0	0	3
18ME0YD	BASICS OF NON-DESTRUCTIVE TESTING	-	-	3	0	0	3
18ME0YE	DIGITAL MANUFACTURING	-	-	3	0	0	3
18ME0YF	WORK STUDY AND ERGONOMICS	-	-	3	0	0	3
18ME0YG	METROLOGY IN INDUSTRY	-	-	3	0	0	3
18ME0YH	PLANT LAYOUT AND MATERIAL HANDLING	-	-	3	0	0	3
18ME0YI	CONCEPTS OF ENGINEERING DESIGN	-	-	3	0	0	3
18ME0YJ	OIL HYDRAULICS AND PNEUMATICS	-	-	3	0	0	3
18ME0YK	ENERGY AUDITING AND MANAGEMENT	-	-	3	0	0	3
18ME0YL	LEAN SIX SIGMA	-	-	3	0	0	3
18ME0YM	HEATING VENTILATION AND AIRCONDITIONING	-	-	3	0	0	3
18TT0YA	YARN AND FABRIC MANUFACTURE	-	-	3	0	0	3
18TT0YB	COLOURATION OF TEXTILES	-	-	3	0	0	3
18TT0YC	TEXTILES IN ENGINEERING APPLICATION	-	-	3	0	0	3
18TT0YD	GENERAL TEXTILE TECHNOLOGY	-	-	3	0	0	3