	B.E. COMPUTER SCIENCE AND EN	GINEERING					
	Minimum Credits to be Earned	l 171.0					
First Semeste	r						
		Objectives	&Outcomes				
Code No.	Course			L	т	Р	C
1000101		PEOs	POs				
18CS101	ENGINEERING MATHEMATICS I	-	a,b	3	1	0	4
18CS102	ENGINEERING PHYSICS I	-	a,b,i	2	0	2	3
18CS103	ENGINEERING CHEMISTRY I	-	a,b,g	2	0	2	3
18CS104	COMPUTER PROGRAMMING I	-	a,b,d	2	0	2	3
18HS101	COMMUNICATIVE ENGLISH I	-	i,j	1	0	2	2
18CS106	HARDWARE ASSEMBLING AND SOFTWARE TOOLS LABORATORY	-	a,b,e	0	0	4	2
			Total	10	1	12	17.0
Second Seme	ster						
Code No.	Course	Objectives	&Outcomes	١.	т	P	l c
Code No.	Course	PEOs	POs	L	l '		'
18CS201	ENGINEERING MATHEMATICS II	1 203	a,b	3	1	0	4
18CS201	ENGINEERING PHYSICS II		a,b,i	2	0	2	3
18CS202	ENGINEERING CHEMISTRY II			2	0	2	3
18CS203	ICOMPUTER PROGRAMMING II	<u> </u>	a,b,g	2	0	2	3
1003204	LANGUAGE ELECTIVE	Ĭ_	a,b,e,m	-	-	-	2
18CS206		<u> </u>	a h c				
	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	-	a,b,c	2	0	2	3
18CS207	ENGINEERING GRAPHICS	-	a,i,m	1	0	4	3
			Total	12	1	12	21.0
Third Semeste	er						
Code No.	Course	Objectives	&Outcomes	L	Ιτ	P	l c
Code No.	Course	PEOs	POs	-	l '	r	١٢
18CS301	ENGINEERING MATHEMATICS III	1 203	a,b	3	1	0	4
18CS302	DATA STRUCTURES	<del> </del>	a,b,c,m	3	0	0	3
18CS302	DIGITAL SYSTEM DESIGN		a,b,c,iii	3	0	2	4
18CS304	SOFTWARE ENGINEERING			3	0	0	3
18CS304	DATABASE MANAGEMENT SYSTEMS	-	a,b,c,m	3	0	0	3
		-	a,b,c,e,m				_
18CS306	PROGRAMMING USING CPP	<u> </u>	a,b,c,e,m	2	0	2	3
18CS307	DATA STRUCTURES LABORATORY	-	e,m	0	0	4	2
18CS308	DATABASE MANAGEMENT SYSTEMS LABORATORY	-	a,b,c,e,m	0	0	4	2
18GE301	SOFT SKILLS - VERBAL ABILITY	-	<u> </u>	2	0	0	0
- 4.0			Total	19	1	12	24.0
Fourth Semes	ter						
		1					
Code No	Course	Objectives	&Outcomes		т	Р	_
Code No.	Course	Objective:	&Outcomes	L	Т	Р	С
			POs			<b>P</b>	
18CS401	ENGINEERING MATHEMATICS IV		<b>POs</b>	3	1	0	4
18CS401 18CS402	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS		POs a,b a,b,c	3	1	0	4
18CS401 18CS402 18CS403	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER		POs a,b a,b,c b,e,n	3 3 3	1 1 0	0 0	4 4 3
18CS401 18CS402 18CS403 18CS404	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM		POs a,b a,b,c b,e,n a,c,e,m	3 3 3 3	1 1 0	0 0 0	4 4 3 3
18CS401 18CS402 18CS403 18CS404 18CS405	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING		POs a,b a,b,c b,e,n a,c,e,m a	3 3 3 3	1 0 0 0	0 0 0 0	4 4 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m	3 3 3 3 2	1 1 0 0 0	0 0 0 0 0	4 4 3 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING		POs a,b a,b,c b,e,n a,c,e,m a	3 3 3 3	1 0 0 0	0 0 0 0	4 4 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i,	3 3 3 3 2	1 1 0 0 0	0 0 0 0 0	4 4 3 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n	3 3 3 3 3 2	1 1 0 0 0	0 0 0 0 0 0 2	4 4 3 3 3 3 2
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a	3 3 3 3 2 0	1 1 0 0 0 0	0 0 0 0 0 0 2 4	4 4 3 3 3 3 2 2
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a	3 3 3 3 2 0	1 1 0 0 0 0 0	0 0 0 0 0 2 4 4	4 4 3 3 3 3 2 2
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING		POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a,b -	3 3 3 3 2 0 0 2 2	1 1 0 0 0 0 0	0 0 0 0 0 2 4 4 0	4 4 3 3 3 3 2 2 0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a,b	3 3 3 3 2 0 0 2 2	1 1 0 0 0 0 0	0 0 0 0 0 2 4 4 0	4 4 3 3 3 3 2 2 0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a,b -	3 3 3 3 2 0 0 2 2	1 1 0 0 0 0 0	0 0 0 0 0 2 4 4 0	4 4 3 3 3 3 2 2 0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,m a,b,c,e,f,g,h,i, n a,b	3 3 3 3 2 0 0 2 2 21	1 1 0 0 0 0 0 0 0	0 0 0 0 0 2 4 4 0 0	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total	3 3 3 3 2 0 0 2 2 21	1 1 0 0 0 0 0 0 0	0 0 0 0 0 2 4 4 0 0	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No.	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  Course	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total s &Outcomes POs	3 3 3 3 3 2 0 0 2 2 21	1 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 4 4 0 0	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No.	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  Course	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a a,b - Total  s &Outcomes  POs a,b,c	3 3 3 3 3 2 0 0 2 2 21	1 1 0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 2 4 4 0 0	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No. 18CS501	ENGINEERING MATHEMATICS IV DESIGN AND ANALYSIS OF ALGORITHMS MICROPROCESSORS AND MICROCONTROLLER OPERATING SYSTEM DATA MINING AND DATA WAREHOUSING JAVA PROGRAMMING MICROPROCESSORS AND MICROCONTROLLER LABORATORY DATA MINING AND DATA WAREHOUSING LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING  Course THEORY OF COMPUTATION COMPUTER ARCHITECTURE	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total  8 &Outcomes POs a,b,c a,b,c a,b,c a,b,c a,b,c a,b,c	3 3 3 3 3 2 0 0 2 2 21	1 1 0 0 0 0 0 0 0 0 0 2	0 0 0 0 0 2 4 4 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste  Code No.  18CS501 18CS502 18CS503	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a a,b - Total  s &Outcomes  POs a,b,c a,b,c a,b,c e,g,n	3 3 3 3 3 2 0 0 2 2 21 L	1 1 0 0 0 0 0 0 0 0 2 <b>T</b>	0 0 0 0 0 2 4 4 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste  Code No.  18CS501 18CS502 18CS503	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  Course  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS  MACHINE LEARNING	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a a,b - Total  s &Outcomes  POs a,b,c a,b,c a,b,c e,g,n	3 3 3 3 3 2 0 0 2 2 21 L	1 1 0 0 0 0 0 0 0 0 2 <b>T</b>	0 0 0 0 0 2 4 4 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste  Code No.  18CS501 18CS502 18CS503	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS  MACHINE LEARNING  PROFESSIONAL ELECTIVE I	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total s &Outcomes POs a,b,c a,b,c e,g,n a,b,c,d,e,f,m	3 3 3 3 3 2 0 0 2 2 21 L	1 1 0 0 0 0 0 0 0 0 2 <b>T</b>	0 0 0 0 0 2 4 4 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No.  18CS501 18CS502 18CS503 18CS504	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS  MACHINE LEARNING  PROFESSIONAL ELECTIVE I  PROFESSIONAL ELECTIVE II  COMPUTER NETWORKS LABORATORY	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total  S & Outcomes  POs a,b,c a,b,c e,g,n a,b,c,d,e,f,m e,g,m,n	3 3 3 3 3 2 0 0 2 2 21  L 3 3 3	1 1 0 0 0 0 0 0 0 0 2 T	0 0 0 0 0 0 2 4 4 0 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0 <b>C</b> 4 3 3 3 3 3 2 2 2 2 2 2 2 3 3 3 3 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No.  18CS501 18CS502 18CS503 18CS504	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS  MACHINE LEARNING  PROFESSIONAL ELECTIVE II  COMPUTER NETWORKS LABORATORY  MACHINE LEARNING LABORATORY	PEOs	POs a,b a,b,c b,e,n a,c,e,m a,b,c,e,f,g,h,i, n a,b,c,e,f,g,h,i, n a,b - Total  S &Outcomes  POs a,b,c a,b,c e,g,n a,b,c,d,e,f,m e,g,m,n a,b,c,d	3 3 3 3 3 2 0 0 2 2 2 21 L	1 1 0 0 0 0 0 0 0 0 2 T	0 0 0 0 0 0 2 4 4 0 0 0 10	4 4 3 3 3 3 2 2 0 0 24.0 C 4 3 3 3 3 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3
18CS401 18CS402 18CS403 18CS404 18CS405 18CS406 18CS407 18CS408 18HS001 18GE401  Fifth Semeste Code No.  18CS501 18CS502 18CS503 18CS504	ENGINEERING MATHEMATICS IV  DESIGN AND ANALYSIS OF ALGORITHMS  MICROPROCESSORS AND MICROCONTROLLER  OPERATING SYSTEM  DATA MINING AND DATA WAREHOUSING  JAVA PROGRAMMING  MICROPROCESSORS AND MICROCONTROLLER LABORATORY  DATA MINING AND DATA WAREHOUSING LABORATORY  ENVIRONMENTAL SCIENCE  SOFT SKILLS-REASONING  THEORY OF COMPUTATION  COMPUTER ARCHITECTURE  COMPUTER NETWORKS  MACHINE LEARNING  PROFESSIONAL ELECTIVE I  PROFESSIONAL ELECTIVE II  COMPUTER NETWORKS LABORATORY	PEOs	POs a,b a,b,c b,e,n a,c,e,m a a,b,c,e,f,g,h,i, n a,b - Total  S & Outcomes  POs a,b,c a,b,c e,g,n a,b,c,d,e,f,m e,g,m,n	3 3 3 3 3 2 0 0 2 2 2 21 L	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 2 4 4 0 0 10 P	4 4 3 3 3 3 2 2 0 0 24.0 <b>C</b> 4 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Code No.	Course	Course Objectives &Outcomes		L	т	Р	С
Oode No.	Course	PEOs	POs	-	'	•	
18HS003	PRINCIPLES OF MANAGEMENT	-	-	2	0	0	2
18CS602	WEB TECHNOLOGY		a,c,e,f,m	3	0	0	3
18CS603	COMPILER DESIGN	<u> </u>	b,c,e	3	1	0	4
18CS604	CLOUD COMPUTING			3	0	0	3
1603604		-	c,e				
	PROFESSIONAL ELECTIVE III	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IV	-	-	-	-	-	3
18CS607	WEB TECHNOLOGY LABORATORY	-	a,c,e,f,m	0	0	4	2
18CS608	CLOUD COMPUTING LABORATORY	-	С	0	0	4	2
18GE601	SOFT SKILLS-APTITUDE II	-	a,b	0	0	2	0
			Total	11	1	10	22.0
Seventh Seme	ester						
		Ohioatiyaa	Objectives &Outcomes				
Code No.	Course	Objectives	aoutcomes	L	Т	Р	С
		PEOs	POs				
18HS002	PROFESSIONAL ETHICS IN ENGINEERING	-	-	2	0	0	2
18CS702	SOFTWARE TESTING	-	b,c,e	3	0	0	3
18CS703	ARTIFICIAL INTELLIGENCE	-	a,b,c,d	3	0	0	3
18CS704	CRYPTOGRAPHY AND NETWORK SECURITY	-	c,d,e	3	0	0	3
.555764	PROFESSIONAL ELECTIVE V	<del></del>	-	-	-	-	3
	PROFESSIONAL ELECTIVE VI	<del>-                                    </del>					
4000===			- 1	-	-	-	3
18CS707	SOFTWARE TESTING LABORATORY	-	a,b,c,e	0	0	4	2
18CS708	PROJECT WORK I	-	-	0	0	6	3
			Total	11	0	10	22.0
Eight Semeste	er						
		Objectives	&Outcomes				
Code No.	Course	Objectives	&Outcomes	L	Т	Р	C
		PEOs	POs				
	PROFESSIONAL ELECTIVE VII	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE VIII	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IX	-	-	-	-	-	3
18CS804	PROJECT WORK II	_	_	0	0	18	9
1000004	1 RODEOT WORKTI				-		
			Totall			1 10	
Flootives			Total	0	0	18	18.0
Electives			Total	0	0	18	18.0
	Course	Objectives	Total	-	-		
Electives  Code No.	Course		&Outcomes	0 	т	18 P	C 18.0
Code No.		Objectives PEOs		-	-		
Code No.	ELECTIVES		&Outcomes	L	т	Р	С
Code No.  LANGUAGE E  18HSC01	LECTIVES CHINESE		&Outcomes	L 1	<b>T</b>	P 2	<b>C</b>
Code No.  LANGUAGE E  18HSC01  18HSF01	LECTIVES CHINESE FRENCH		&Outcomes	L 1 1	<b>T</b> 0 0	P 2 2	<b>C</b> 2 2
Code No.  LANGUAGE E  18HSC01  18HSG01	LECTIVES CHINESE FRENCH GERMAN		&Outcomes	L 1 1 1 1	T 0 0 0 0	P 2 2 2 2	2 2 2
Code No.  LANGUAGE E  18HSC01  18HSF01	LECTIVES CHINESE FRENCH		&Outcomes	L 1 1	<b>T</b> 0 0	P 2 2	<b>C</b> 2 2
Code No.  LANGUAGE E  18HSC01  18HSG01	LECTIVES CHINESE FRENCH GERMAN		&Outcomes	L 1 1 1 1	T 0 0 0 0	P 2 2 2 2	2 2 2
Code No.  LANGUAGE E  18HSC01  18HSG01  18HSH01	LECTIVES CHINESE FRENCH GERMAN HINDI JAPANESE		&Outcomes	1 1 1	T 0 0 0 0 0 0	P 2 2 2 2 2 2	2 2 2 2 2
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01	LECTIVES CHINESE FRENCH GERMAN HINDI JAPANESE		&Outcomes	1 1 1	T 0 0 0 0 0 0	P 2 2 2 2 2 2	2 2 2 2 2
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES		&Outcomes POs  - j	1 1 1 1	T 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2	2 2 2 2 2 2
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES CYBER SECURITY		&Outcomes POs  - j a,b,c a,c,e	1 1 1 1 1	T 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0	2 2 2 2 2 2
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005	LECTIVES CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS		&Outcomes POs  - j a,b,c a,c,e a,b,c,d,e	L 1 1 1 1 1 1 1 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0 0 0	2 2 2 2 2 2 2 2 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006	LECTIVES CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT		&Outcomes POs  - j	L 1 1 1 1 1 1 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006	ILECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP		&Outcomes POs  a,b,c a,c,e a,b,c,d,e d,i,j a,b,c	1 1 1 1 1 1 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007	ILECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES		&Outcomes POs  -  j  -  -  -  -  -  -  -  -  -  -  -	1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008	ILECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE		&Outcomes  POs  -  j  -  -  -  -  a,b,c  a,c,e  a,b,c,d,e  d,i,j  a,b,c  a,d,e  e,f,k	1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011	ILECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES		&Outcomes  POs  -  j  -  -  -  a,b,c  a,c,e  a,b,c,d,e  d,i,j  a,b,c  a,d,e  e,f,k  b,c,e	L 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS		&Outcomes  POs  -  j  -  -  -  -  a,b,c  a,c,e  a,b,c,d,e  d,i,j  a,b,c  a,d,e  e,f,k	L 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011	ILECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES		&Outcomes  POs  -  j  -  -  -  a,b,c  a,c,e  a,b,c,d,e  d,i,j  a,b,c  a,d,e  e,f,k  b,c,e	L 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS		&Outcomes  POs	L 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012  18CS013	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE		&Outcomes  POs	1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012  18CS013	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS		8.Outcomes POs  -	1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012  18CS013  18CS014  18CS015	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT		&Outcomes  POs	1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH011  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012  18CS014  18CS015  18CS016  18CS016  18CS016	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION		&Outcomes  POs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH011  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS011  18CS012  18CS013  18CS014  18CS015  18CS016  18CS016  18CS016	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY		8-Outcomes POs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18CS003 18CS004 18CS005 18CS006 18CS007 18CS008 18CS011 18CS012 18CS013 18CS014 18CS015 18CS016 18CS016 18CS018 18CS019 18CS019	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING		8.Outcomes  POs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSF01  18HSH01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS011  18CS012  18CS013  18CS014  18CS015  18CS016  18CS018  18CS019  18CS019  18CS019	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS		8.Outcomes  POs	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSF01  18HSH01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS009  18CS009  18CS011  18CS012  18CS013  18CS014  18CS015  18CS016  18CS016  18CS019  18CS019  18CS020  18CS021	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING		8.Outcomes  POs	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	C 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E 18HSC01 18HSF01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18CS003 18CS004 18CS005 18CS006 18CS009 18CS001 18CS011 18CS012 18CS013 18CS014 18CS015 18CS016 18CS015 18CS016 18CS019 18CS019 18CS020 18CS021	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE		8.Outcomes POs  - j	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSF01  18HSH01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS009  18CS009  18CS011  18CS012  18CS013  18CS014  18CS015  18CS016  18CS016  18CS019  18CS019  18CS020  18CS021	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING		8.Outcomes  POs	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	C 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E 18HSC01 18HSF01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18CS003 18CS004 18CS005 18CS006 18CS009 18CS001 18CS011 18CS012 18CS013 18CS014 18CS015 18CS016 18CS015 18CS018 18CS019 18CS019 18CS020 18CS021	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE		8.Outcomes POs  - j	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS012  18CS013  18CS014  18CS015  18CS015  18CS016  18CS016  18CS019  18CS020  18CS022  18CS023  18CS024	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE BUSINESS ANALYTICS		8.Outcomes  POs	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2       2       2       2       2       2       2       2       2       2       2       2       2       3       4       4       5       6       6       7       8       9       9       9       9       9       9       9       9       9       9 <t< td=""></t<>
Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSH01  DISCIPLINE E  18CS003  18CS004  18CS005  18CS006  18CS007  18CS008  18CS009  18CS011  18CS011  18CS012  18CS013  18CS014  18CS015  18CS016  18CS016  18CS016  18CS018  18CS020  18CS021  18CS022  18CS023  18CS024	CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CYBER SECURITY DISTRIBUTED COMPUTING BIG DATA ANALYTICS INFORMATION STORAGE MANAGEMENT TCP/IP WIRELESS NETWORK TECHNOLOGIES SOFTWARE QUALITY ASSURANCE XML AND WEB SERVICES INTERNET OF THINGS E-COMMERCE MANAGEMENT INFORMATION SYSTEMS TOTAL QUALITY MANAGEMENT DEEP LEARNING TECHNIQUES HUMAN COMPUTER INTERACTION VIRTUAL REALITY DIGITAL MARKETING SOCIAL NETWORK ANALYSIS NATURAL LANGUAGE PROCESSING WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE BUSINESS ANALYTICS OPEN STACK ESSENTIALS		## Application   Pos	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P  2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2       2       2       2       2       2       2       2       2       2       2       2       2       3       4       4       5       6       6       7       8       9       9       9       9       9       9       9       9       9       9 <t< td=""></t<>

ONE CREDIT COURSES           18CS0XA         3D ANIMATIONS         -         -         0           18CS0XB         QUANTUM COMPUTING         -         -         0           18CS0XC         AGILE PROGRAMMING         -         -         0           18CS0XD         MOBILE OPERATING SYSTEMS         -         -         0           18CS0XE         INTERNET MARKETING         -         -         0           18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1           18CS0XH         AUTOMATION TESTING USING QTP         -         -         0			
18CS0XB         QUANTUM COMPUTING         -         -         0           18CS0XC         AGILE PROGRAMMING         -         -         0           18CS0XD         MOBILE OPERATING SYSTEMS         -         -         0           18CS0XE         INTERNET MARKETING         -         -         0           18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1	0	0	1
18CS0XC         AGILE PROGRAMMING         -         -         0           18CS0XD         MOBILE OPERATING SYSTEMS         -         -         0           18CS0XE         INTERNET MARKETING         -         -         0           18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1	0	0	1
18CS0XD         MOBILE OPERATING SYSTEMS         -         -         0           18CS0XE         INTERNET MARKETING         -         -         0           18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1	0	0	1
18CS0XE         INTERNET MARKETING         -         -         0           18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1	0	0	1
18CS0XF         SCRIPTING LANGUAGES         -         -         1           18CS0XG         RASPBERRY PI         -         -         1	0	0	1
18CS0XG RASPBERRY PI 1	0	0	1
	0	0	1
10CSOAR ACTOMATION TESTING CSING QTF	0	0	1
18CS0XI CODE AUGMENTED REALITY 0	0	0	1
	-	_	
18CS0XJ ANGULAR JAVA 0	0	0	1
18CS0XK TENSOR FLOW 1	0	0	1
18CS0XL STATISTICAL ANALYSIS USING R - 0	0	0	1
18CS0XM MACHINE LEARNING FOR ENGINEERS - 0	0	0	1
18CS0XN BLOCK CHAIN TECHNOLOGIES - 0	0	0	1
18CS0XO .NET PROGRAMMING 1	0	0	1
18CS0XP GO PROGRAMMING 1	0	0	1
OPEN ELECTIVES			
18CS0YA E-LEARNING TECHNIQUES - a,b,c,m 3	0	0	3
18CS0YB SOFTWARE TESTING AND QUALITY ASSURANCE - a,b,e 3	0	0	3
18CS0YD NETWORK ENGINEERING AND MANAGEMENT - c,d,e 3	0	0	3
18CS0YE AGENT BASED INTELLIGENT SYSTEMS - a,b,c,d,m 3	0	0	3
18CS0YF E-BUSINESS - c,f,k,l 3	0	0	3
18CS0YG KNOWLEDGE DISCOVERY IN DATABASES - a,b,c,d,m 3	0	0	3
18CS0YH SOCIAL NETWORK ANALYSIS CONCEPTS - a,b,c,d,e,f 3	0	0	3
18CS0YI OPERATING SYSTEM CONCEPTS - a,b,c,e 3	0	0	3
18CS0YJ OBJECT ORIENTED PROGRAMMING - a,b,c,e 3	0	0	3
18GE0C1 CORROSION SCIENCE AND ENGINEERING - a,b,g 3	0	0	3
18GE0C2 ENERGY STORING DEVICES - a,b 3	0	0	3
18GE0C3 POLYMER SCIENCE - a,b,c 3	0	0	3
	0	0	3
18GE0P1 NANOMATERIALS SCIENCE - a,b 3 18GE0P2 SEMICONDUCTOR PHYSICS AND DEVICES 3	0	0	3
			-
18GE0P3 APPLIED LASER SCIENCE 3	0	0	3
18GE0P4 BIO-PHOTONICS 3	0	0	3
18GE0P5 PHYSICS OF SOFT MATTER 3	0	0	3
18MC0YA INDUSTRIAL ROBOTICS 3	0	0	3
ADDITIONAL ONE CREDIT COURSE			
18GE0XA ETYMOLOGY - 1	0	0	1
18GE0XB GENERAL PSYCHOLOGY 1	0	0	1
18GE0XC NEURO BEHAVIORAL SCIENCE - i 1	0	0	1
18GE0XD VISUAL MEDIA AND FILM MAKING - b,f 1	0	0	1
18GE0XE YOGA FOR HUMAN EXCELLENCE - i,k 1	0	0	1
	0	0	
18GE0XF VEDIC MATHEMATICS 1	0	0	1
	$\overline{}$	U	1
18GE0XF VEDIC MATHEMATICS 1 18GE0XG HEALTH AND FITNESS 1 18GE0XH CONCEPT, METHODOLOGY AND APPLICATIONS OF 1			1
18GE0XF     VEDIC MATHEMATICS     -     -     1       18GE0XG     HEALTH AND FITNESS     -     -     1       18GE0XH     CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING     -     -     -     1	0	0	
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         -         1	0	0	1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         -         1	0	0 0	1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1           18GE0XL         NATIONAL CADET CORPS         -         g,i         1	0	0	1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1	0	0 0	1 1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1           18GE0XL         NATIONAL CADET CORPS         -         g,i         1	0 0	0 0 0	1 1 1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         -         1           18GE0XI         BLOG WRITING         -         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1           18GE0XL         NATIONAL CADET CORPS         -         g,i         1           18GE0XM         COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT         -         -         1	0 0 0	0 0 0 0 0	1 1 1 1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         1           18GE0XI         BLOG WRITING         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1           18GE0XL         NATIONAL CADET CORPS         -         g,i         1           18GE0XM         COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT         -         -         1           18GE0XN         DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES         -         -         1	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1
18GE0XF         VEDIC MATHEMATICS         -         -         1           18GE0XG         HEALTH AND FITNESS         -         -         1           18GE0XH         CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING         -         -         1           18GE0XI         BLOG WRITING         -         -         1           18GE0XJ         INTERPERSONAL SKILLS         -         -         1           18GE0XL         NATIONAL CADET CORPS         -         g,i         1           18GE0XM         COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT         -         -         1           18GE0XN         DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES         -         -         1           18GE0XO         SOCIAL PSYCHOLOGY         -         i         1	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1
18GE0XF	0 0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1 1 1 1
18GE0XF   VEDIC MATHEMATICS   -   -   1   1   1   1   1   1   1   1	0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1 1 1
18GE0XF   VEDIC MATHEMATICS   -   -   1   1   1   1   1   1   1   1	0 0 0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 1 1 1 1 1
18GE0XF   VEDIC MATHEMATICS   -   -   1   1   1   1   1   1   1   1	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	1 1 1 1 1 1 1 1 1 1
18GE0XF   VEDIC MATHEMATICS   -   -   1   1   1   1   1   1   1   1	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	1 1 1 1 1 1 1 1 1 1 3 3 3
18GE0XF   VEDIC MATHEMATICS   -   -   1     18GE0XG   HEALTH AND FITNESS   -   -   1     18GE0XH   CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING   -   -   1     18GE0XI   BLOG WRITING   -   -   1     18GE0XJ   INTERPERSONAL SKILLS   -   -   1     18GE0XL   NATIONAL CADET CORPS   -                           18GE0XM   COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT   -   -   1     18GE0XN   DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES   -     1     18GE0XO   SOCIAL PSYCHOLOGY   -       1     18CS001   FREE OPEN SOURCE SOFTWARE   -                       18CS002   DATA ANALYTICS   -	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	1 1 1 1 1 1 1 1 1 3 3 3 3 3
18GE0XF	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	1 1 1 1 1 1 1 1 1 1 3 3 3 3 3
18GE0XF   VEDIC MATHEMATICS   -   -   1   18GE0XG   HEALTH AND FITNESS   -   -   1   1   1   1   1   1   1   1	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	1 1 1 1 1 1 1 1 1 3 3 3 3 3
18GE0XF   VEDIC MATHEMATICS   -   -   1   18GE0XG   HEALTH AND FITNESS   -   -   1   1   18GE0XG   HEALTH AND FITNESS   -   -   1   1   18GE0XH   CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING   -   -   1   1   18GE0XI   BLOG WRITING   -   -   1   1   18GE0XJ   INTERPERSONAL SKILLS   -   -   1   1   18GE0XL   NATIONAL CADET CORPS   -           1   1   1   1   1   1   1	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 3 3 3 3 3 3
18GE0XF   VEDIC MATHEMATICS   -   -   1   18GE0XG   HEALTH AND FITNESS   -   -   1   1   1   1   1   1   1   1	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	1 1 1 1 1 1 1 1 1 1 3 3 3 3 3
18GEOXF   VEDIC MATHEMATICS     1     18GEOXG   HEALTH AND FITNESS     -   1   1   1   1   1   1   1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3
18GEOXF   VEDIC MATHEMATICS   -   -   1     18GEOXG   HEALTH AND FITNESS   -   -   -   1     18GEOXH   CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING   -   -   1     18GEOXH   VERMICOMPOSTING   -   -   1     18GEOXI   BLOG WRITING   -   -   1     18GEOXJ   INTERPERSONAL SKILLS   -   -   1     18GEOXL   NATIONAL CADET CORPS   -   g,i   1     18GEOXM   COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT   -   1     18GEOXM   DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES   -   1     18GEOXO   SOCIAL PSYCHOLOGY   -   i   1     18GEOXO   FREE OPEN SOURCE SOFTWARE   -   b,g   3     18CS001   FREE OPEN SOURCE SOFTWARE   -   b,g   3     18CS002   DATA ANALYTICS   -   a,b,c,d,e,f   3     18CS010   GRAPHICS AND MULTIMEDIA   -   b,c   3     18CS017   MOBILE APPLICATION DEVELOPMENT   -   b,c   3     18CS017   SOFT COMPUTING   -   b,c   3     OPEN ELECTIVES   -   a,b,c,d,e   3     18CSOYK   JAVA FUNDAMENTALS   -   a,b,c,d,e   3     18CSOYK   JAVA FUNDAMENTALS   -   a,b,c,d,e   3     18CSOYK   NEW AGE INNOVATION AND ENTREPRENEURSHIP   -     1     LANGUAGE ELECTIVES   18HS201   COMMUNICATIVE ENGLISH II   -     i,j   1	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 3 3 3 3 3 3
18GE0XF   VEDIC MATHEMATICS		0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3
18GEOXF   VEDIC MATHEMATICS   -   -   1     18GEOXG   HEALTH AND FITNESS   -   -   -   1     18GEOXH   CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING   -   -   1     18GEOXH   VERMICOMPOSTING   -   -   1     18GEOXI   BLOG WRITING   -   -   1     18GEOXJ   INTERPERSONAL SKILLS   -   -   1     18GEOXL   NATIONAL CADET CORPS   -   g,i   1     18GEOXM   COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT   -   1     18GEOXM   DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES   -   1     18GEOXO   SOCIAL PSYCHOLOGY   -   i   1     18GEOXO   FREE OPEN SOURCE SOFTWARE   -   b,g   3     18CS001   FREE OPEN SOURCE SOFTWARE   -   b,g   3     18CS002   DATA ANALYTICS   -   a,b,c,d,e,f   3     18CS010   GRAPHICS AND MULTIMEDIA   -   b,c   3     18CS017   MOBILE APPLICATION DEVELOPMENT   -   b,c   3     18CS017   SOFT COMPUTING   -   b,c   3     OPEN ELECTIVES   -   a,b,c,d,e   3     18CSOYK   JAVA FUNDAMENTALS   -   a,b,c,d,e   3     18CSOYK   JAVA FUNDAMENTALS   -   a,b,c,d,e   3     18CSOYK   NEW AGE INNOVATION AND ENTREPRENEURSHIP   -     1     LANGUAGE ELECTIVES   18HS201   COMMUNICATIVE ENGLISH II   -     i,j   1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 3

18AE0YC	FUNDAMENTALS OF AIRCRAFT ENGINEERING		I	3	0	0	3
	ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY	ļ .	-	3	U	U	3
18AG0YA	MANAGEMENT FOOD INDUSTRY	-	-	3	0	0	3
18AG0YB	HUMAN ENGINEERING AND SAFETY IN AGRICULTURE	<del> </del> -	<del> </del>	3	0	0	3
18AG0YC	ENERGY MANGEMENT IN AGRICULTURE	<del>-</del>		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	-	-	3	0	0	3
18BT0YB	MUSHROOM CULTIVATION AND VERMICOMPOSTING	-	-	3	0	0	3
18BT0YC	FORENSIC TECHNOLOGY	-	-	3	0	0	3
18CE0YA	GREEN BUILDINGS	1-	-	3	0	0	3
18CE0YB	DISASTER PREPAREDNESS AND PLANNING	-	-	3	0	0	3
18CE0YC	ENVIRONMENTAL IMPACT ASSESSMENT	-	-	3	0	0	3
18CE0YD	BUILDING SERVICES	-	-	3	0	0	3
18CE0YE	INDUSTRIAL WASTE MANAGEMENT	-	-	3	0	0	3
18CE0YF	WEALTH FROM WASTE	-	_	3	0	0	3
18CE0YG	RISK AND SAFETY MANAGEMENT	<del> </del> -	<del> </del>	3	0	0	3
18CE0YH	ENERGY SCIENCE AND ENGINEERING	-		3	0	0	3
	CONCEPTS OF REMOTE SENSING	ļ-	-		_	_	
18CE0YI		ļ-	ļ	3	0	0	3
18EC0YA	BASICS OF ANALOG AND DIGITAL ELECTRONICS	-	-	3	0	0	3
18EC0YB	AUTOMOTIVE ELECTRONICS	-	-	3	0	0	3
18EC0YC	PCB DESIGN AND PROTOTYPING	-	-	3	0	0	3
18EC0YD	MICROCONTROLLER PROGRAMMING	-	-	3	0	0	3
18EC0YE	ENGINEERING COMPUTATION WITH MATLAB	-	-	3	0	0	3
18EC0YF	BASICS OF HARDWARE DESCRIPTION LANGUAGES	-	-	3	0	0	3
18EC0YG	FUNDAMENTALS OF EMBEDDED SYSTEMS	-	-	3	0	0	3
18EC0YH	PRINCIPLES OF COMMUNICATION SYSTEMS	-	-	3	0	0	3
18EC0YI	ELECTRONIC PRODUCT DESIGN AND PACKAGING	-	-	3	0	0	3
18EC0YJ	PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS	-	-	3	0	0	3
18EE0YA	ENERGY CONSERVATION AND MANAGEMENT	-	-	3	0	0	3
18EE0YB	ELECTRICAL SAFETY	-	-	3	0	0	3
18EE0YC	INDUSTRIAL DRIVES AND CONTROL	-	-	3	0	0	3
18EI0YA	PROGRAMMABLE LOGIC CONTROLLERS	-	-	3	0	0	3
18EI0YB	SENSOR TECHNOLOGY	-	-	3	0	0	3
18EI0YC	FUNDAMENTALS OF VIRTUAL INSTRUMENTATION	-	_	3	0	0	3
	OPTOELECTRONICS AND LASER INSTRUMENTATION			3	0	0	3
		ļ-	ļ	·	_	0	3
18FD0YA	TRADITIONAL FOODS		-	3	0	U	J
18FD0YB	FOOD LAWS AND REGULATIONS			_	$\overline{}$	_	$\overline{}$
18FD0YC		-	-	3	0	0	3
	POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES	-	-	3	0	0	3
18FT0YA	FASHION CRAFTS	-	- - -	3	0	0	3
18FT0YA 18FT0YB	FASHION CRAFTS FASHION ACCESSORIES	- - -	- - -	3 3	0 0	0 0	3 3
18FT0YA	FASHION CRAFTS	-	- - - -	3	0	0	3
18FT0YA 18FT0YB 18FT0YC 18FT0YD	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN	-	- - - -	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING	-	-	3 3 3	0 0 0	0 0 0	3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN	-	-	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT	-	- - - - - - - -	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS	-	- - - - - - - -	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY	-		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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH	-		3 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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS	-		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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY	-		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	3 3 3 3 3 3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS	-		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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS	- - - - - - - - - - - - -		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
18FT0YA 18FT0YB 18FT0YC 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND 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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING			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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YC	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE			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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YC	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING			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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YC 18FT0YC 18FT0YC 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YC 18IT0YD 18IT0YE	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING			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
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18FT0YA 18FT0YB 18FT0YB 18FT0YC 18FT0YC 18FT0YC 18FT0YC 18FT0YC 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YC 18ME0YA 18ME0YC 18ME0YC 18ME0YC 18ME0YC	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING DIGITAL MANUFACTURING			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
18FT0YA 18FT0YB 18FT0YB 18FT0YC 18FT0YD 18FT0YC 18FT0YC 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YC 18ME0YF	FASHION CRAFTS FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING DIGITAL MANUFACTURING WORK STUDY AND ERGONOMICS			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

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