	B.Tech. COMPUTER TECHN Minimum Credits to be Earn						
First Semester		eu 167.0					
riisi semesie	! 	T			<u> </u>	<u> </u>	<u> </u>
Code No.	Course	Objective	s &Outcomes	L	Т	P	l c
		PEOs	POs				
19CT101	ENGINEERING MATHEMATICS I	1,11	a,b	3	1	0	4
19CT102	ENGINEERING PHYSICS I	1,11,111	a,b,i	2	0	2	3
19CT103	ENGINEERING CHEMISTRY I	1,11	a,b,g	2	0	2	3
19CT104	COMPUTER PROGRAMMING	1,11	a,b,c,e	2	0	2	3
19HS101	COMMUNICATIVE ENGLISH I	1,11,111	i,j	1	0	2	2
19CT106	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	1,11,111	a,l	2	0	2	3
19CT107	PC HARDWARE AND TROUBLESHOOTING	I,II	a,b,e	0	0	2	1
		•	Total	12	1	12	19.0
Second Seme	ster						
	Objectives &Outcome				_		
Code No.	Course	PEOs	POs	L	T	P	C
19CT201	ENGINEERING MATHEMATICS II	I,II	a,b	3	1	0	4
19CT201	ENGINEERING PHYSICS II	1,11,111	a,b,i	2	0	2	3
19CT202	ENGINEERING CHEMISTRY II						
	PROBLEM SOLVING AND PROGRAMMING USING PYTHON	1,11	a,b,g	2	0	2	3
19CT204		I,II	a,b,c	3	0	2	4
4007000	LANGUAGE ELECTIVE	-	-	-	-	-	2
19CT206	DIGITAL SYSTEM DESIGN	1,11	a,b,c	3	0	2	4
19CT207	ENGINEERING GRAPHICS	1,11,111	a,i,m	1	0	4	3
			Total	14	1	12	23.0
Third Semeste	er						
O-d-N-	0	Objective	s &Outcomes	١.	l _	١.	
Code No.	Course	PEOs	POs	L	т	P	C
19CT301	ENGINEERING MATHEMATICS III	I,II	a,b	3	1	0	4
19CT301	COMPUTER ORGANIZATION AND ARCHITECTURE			3	0	0	3
		1,11	a,b,c		-	_	
19CT303	DATA STRUCTURES AND ALGORITHMS	1,11	a,b,c	3	0	0	3
19CT304	DATABASE TECHNOLOGY	1,11	a,b,c,e	3	0	0	3
19CT305	OPERATING SYSTEMS	1,11	a,c,e	3	1	0	4
19CT306	JAVA PROGRAMMING	1,11	a,b,c	2	0	4	4
19CT307	DATA STRUCTURES AND ALGORITHMS LABORATORY	1,11	е	0	0	4	2
19CT308	DATABASE TECHNOLOGY LABORATORY	1,11	a,b,c,e	0	0	4	2
18GE301	SOFT SKILLS - VERBAL ABILITY	-	-	2	0	0	0
			Total	19	2	12	25.0
Fourth Semes	ter						
O-d-N-	0	Objectives &Outcomes		L	т	Р	С
Code No.	Course	PEOs	PEOs POs				
19CT402	ANALYSIS OF ALGORITHMS	1,11	a,b,c	3	1	0	4
19CT402	THEORY OF COMPUTATION	1,11		3	1	0	4
19CT403	SOFTWARE ENGINEERING		a,b,c	3	0	0	3
		1,11	a,b,c			_	
19CT406	COMPUTER NETWORKS	1,11	e,g	3	0	2	4
18GE401	SOFT SKILLS-REASONING	-	-	2	0	0	0
18HS001	ENVIRONMENTAL SCIENCE	1-	-	2	0	0	0
19CT401	PROBABILITY AND STATISTICS	1,11	a,b	3	1	0	4
19CT405	MICROPROCESSORS AND MICROCONTROLLERS	1,11	b,e	3	0	0	3
19CT407	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	1,11,111	a,b,c,e,g,h,i	0	0	4	2
			Total	22	3	6	24.0
Fifth Semester	r						
		Objective	s &Outcomes			l	
Code No.	Course	PEOs		L	T	P	C
1007504	COMPILED DECICAL		POs	2	1		<del>                                     </del>
19CT501	COMPILER DESIGN	1,11	b,c,e	3	1	0	4
19CT502	WEB TECHNOLOGY	1,11	a,c,e,f,m	2	0	0	2
19CT503	EMBEDDED SYSTEMS	1,11	a,c,d	3	0	2	4
19CT504	ARTIFICIAL INTELLIGENCE	1,11	a,b,c	3	0	0	3
	PROFESSIONAL ELECTIVE I	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE II	-	-	-	-	-	3
19CT507	WEB TECHNOLOGY LABORATORY	1,11	a,c,e,f,m	0	0	2	1
19CT508	ARTIFICIAL INTELLIGENCE LABORATORY	1,11	a,b,c	0	0	2	1
						2	0
18GE501	SOFT SKILLS - APTITUDE I	-	-	0	0		<u> </u>
18GE501	SOFT SKILLS - APTITUDE I	-	- Total	11	1	8	21.0
18GE501 Sixth Semeste		<u> </u> -	Total				
		- Objective	Total				

	I						
l		PEOs	POs	1			
18HS003	PRINCIPLES OF MANAGEMENT	-	-	2	0	0	2
19CT602	MACHINE LEARNING TECHNIQUES	-	-	2	1	0	3
19CT603	SECURITY IN COMPUTING	-	-	2	0	0	2
19CT604	PARALLEL AND DISTRIBUTED COMPUTING	-	-	3	0	0	3
	PROFESSIONAL ELECTIVE III	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IV	-	-	-	-	-	3
19CT607	MACHINE LEARNING LABORATORY		-	0	0	2	1
19CT608	SECURITY LABORATORY		-	0	0	2	1
18GE601	SOFT SKILLS-APTITUDE II	_	-	0	0	2	0
1002001	OOT FORMELO AN THIODE II		Total	9	1	6	18.0
Seventh Seme	ester		10141	ŭ	·		10.0
Ocveniin Genie						T	T
Code No.	Course	Objectives	&Outcomes	l∟∣	Т	Р	l c
		PEOs	POs	1			
18HS002	PROFESSIONAL ETHICS IN ENGINEERING	-	-	2	0	0	2
19CT702	DATA SCIENCE	-	-	2	0	0	2
19CT703	BLOCKCHAIN TECHNOLOGY	<del>-  </del> -	1-	2	0	0	2
19CT704	CLOUD COMPUTING TECHNIQUES	-	-	2	0	0	2
	PROFESSIONAL ELECTIVE V		-	-	<u> </u>	Ť	3
	PROFESSIONAL ELECTIVE VI	<del>-  </del> .	1-	-		<u> </u>	3
19CT707	BLOCKCHAIN TECHNOLOGY LABORATORY		1-	0	0	2	1
19CT707	CLOUD COMPUTING LABORATORY	<u> </u>	ľ	0	0	2	1
19CT708	PROJECT WORK I	<u></u>	<u> </u>	•	,		3
1901709	PROJECT WORKT	-	<u> </u>	0	0	6	
			Total	8	0	10	19.0
Eight Semeste	<u>}r</u>						
Codo No	Ca	Objectives	&Outcomes	Ι. Ι	т	P	l c
Code No.	Course	PEOs	POs	L	!		١٢
	PROFESSIONAL ELECTIVE VII	1 203	103	-	-		3
	PROFESSIONAL ELECTIVE VIII	-	-	_	_		3
	PROFESSIONAL ELECTIVE IX		-	-	_		3
1007001			-		-	- 40	9
19CT804	PROJECT WORK II	-	<u> </u>	0	0	18	_
			Total	0	0	18	18.0
Electives	T						
Code No.	Course	Objectives	&Outcomes	[	Т	P	Ιc
		PEOs	POs	-		-	`
CORE-THEOR	Y						
21CT501	DOMPH ED DECION						
21CT502	COMPILER DESIGN	<u> </u>	-	3	1	0	4
2101302		-	-		1	0	4
21CT502 21CT504	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE	-	- -	3 3 3			
	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE	-	-	3	1	0	4
21CT504 CORE-LABOR	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE	-	-	3	0	0	3
21CT504 CORE-LABOR 21CT507	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY	-	-  -  -  -	3 3	0	0 0	3
21CT504 CORE-LABOR 21CT507 21CT508	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY	- - -	-  -  -  -	3	0	0	3
21CT504 CORE-LABOR 21CT507 21CT508 LANGUAGE E	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE EATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES	-	-  -  -  -  -	3 3	0 0	0 0	1 1
21CT504 CORE-LABOR 21CT507 21CT508 LANGUAGE E 18HS201	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II	- - - -	-  -  -  -  -	3 3 0 0 0	1 0 0 0	0 0	1 1 2
21CT504 CORE-LABOR 21CT507 21CT508 LANGUAGE E 18HS201 18HSC01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II CHINESE	- - - -	-  -  -  -  -  -	3 3 0 0	1 0 0 0	0 0 2 2 2	4 3 1 1 1 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE  ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH	- - - - -	-  -  -  -  -  -  -	3 3 0 0	1 0 0 0	0 0 2 2 2 2 2	1 1 1 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE  ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY ILECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN	- - - - - -	- - - - - - -	3 3 0 0 1 1 1	0 0 0 0	0 0 0 2 2 2 2 2 2	1 1 1 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI	- - - - - - -	-  -	0 0 1 1 1 1 1 1 1	0 0 0 0 0 0	2 2 2 2 2 2 2	4 3 1 1 1 2 2 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE	- - - - - - - -	- - - - - - - - -	3 3 0 0 1 1 1	0 0 0 0	0 0 0 2 2 2 2 2 2	1 1 1 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES	- - - - - - - -	- - - - - - - - -	3 3 3 0 0 0	0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2	4 3 1 1 1 2 2 2 2 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01 18HSH01 18HSJ01 DISCIPLINE E 19CT008	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING	- - - - - - - - -		3 3 3 0 0 0	1 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2	4 3 1 1 1 2 2 2 2 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSG01 18HSH01 18HSH01 18HSJ01 DISCIPLINE E 19CT008	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES	- - - - - - - - - - -	-  -	3 3 3 0 0 0 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2	4 3 1 1 1 2 2 2 2 2 2 2 2 2 2 2
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS	- - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0	4 3 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE	- - - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2	1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING	- - - - - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0	4 3 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE	- - - - - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0	1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING	- - - - - - - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0	4 3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023 19CT024	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING	- - - - - - - - - - - - - - - - - - -		3 3 3 0 0 0 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0	4 3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023 19CT024 19CT026	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION			3 3 3 0 0 0 1 1 1 1 1 1 1 1 1 1 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023 19CT024 19CT026	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION CYBER FORENSICS			3 3 3 0 0 0 1 1 1 1 1 1 1 1 1 1 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023 19CT024 19CT026 19CT027 21CT007	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION CYBER FORENSICS AGILE SOFTWARE DEVELOPMENT			3 3 3 0 0 0 1 1 1 1 1 1 1 1 1 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSJ01  DISCIPLINE E 19CT008 19CT010 19CT014 19CT023 19CT024 19CT026 19CT027 21CT008	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY ELECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION CYBER FORENSICS AGILE SOFTWARE DEVELOPMENT UI AND UX DESIGN			3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504  CORE-LABOR 21CT507 21CT508  LANGUAGE E 18HS201 18HSF01 18HSF01 18HSH01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT009 19CT010 19CT014 19CT023 19CT024 19CT026 19CT027 21CT008 21CTH01 21CTH01	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION CYBER FORENSICS AGILE SOFTWARE DEVELOPMENT UI AND UX DESIGN EXPLORATORY DATA ANALYSIS RECOMMENDED SYSTEMS			3 3 3 0 0 0 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0	3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
21CT504 CORE-LABOR 21CT507 21CT508 LANGUAGE E 18HS201 18HSC01 18HSF01 18HSH01 18HSH01 18HSJ01 DISCIPLINE E 19CT008 19CT010 19CT014 19CT023 19CT024 19CT026 19CT027 21CT008 21CT008	WEB TECHNOLOGY ARTIFICIAL INTELLIGENCE ATORY  WEB TECHNOLOGY LABORATORY ARTIFICIAL INTELLIGENCE LABORATORY  LECTIVES  COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  SOFTWARE TESTING XML AND WEB SERVICES SOCIAL NETWORK ANALYSIS NOSQL DATABASE ETHICAL HACKING DATA MINING AND DATA WAREHOUSING HUMAN COMPUTER INTERACTION CYBER FORENSICS AGILE SOFTWARE DEVELOPMENT UI AND UX DESIGN EXPLORATORY DATA ANALYSIS RECOMMENDED SYSTEMS			3 3 3 0 0 0 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0	3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3

19CT0XB 19CT0XC	COMPUTER VISION	_	_	1	0	0	<b>l</b> 1
A TOUR TITIX ( )	GAME PROGRAMMING	<del></del>		1	0	0	1
SPECIAL COL			I	' '	U		<u> </u>
	SOFT SKILLS Ä?? APTITUDE I	-	-	0	0	2	0
OPEN ELECT				Ů	Ü		<u> </u>
OI EN EEEOII	LANGUAGE ELECTIVE	-	-	3	0	0	3
18GE0C1	CORROSION SCIENCE AND ENGINEERING	_	-	3	0	0	3
18GE0C2	ENERGY STORING DEVICES		_	3	0	0	3
18GE0C3	POLYMER SCIENCE	_	-	3	0	0	3
18GE0P1	NANOMATERIALS SCIENCE		-	3	0	0	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
	ONE CREDIT COURSE			, ,			
18GE0XA	ETYMOLOGY	-	-	1	0	0	1
18GE0XB	GENERAL PSYCHOLOGY	-	-	1	0	0	1
18GE0XC	NEURO BEHAVIORAL SCIENCE	-	-	1	0	0	1
18GE0XD	VISUAL MEDIA AND FILM MAKING	-	-	1	0	0	1
18GE0XE	YOGA FOR HUMAN EXCELLENCE	-	-	1	0	0	1
18GE0XF	VEDIC MATHEMATICS	-	-	1	0	0	1
18GE0XG	HEALTH AND FITNESS	-	-	1	0	0	1
	CONCEPT, METHODOLOGY AND APPLICATIONS OF	1		4	0	^	1
18GE0XH	VERMICOMPOSTING		<u> </u>	1	U	0	1
18GE0XI	BLOG WRITING	-	-	1	0	0	1
18GE0XJ	INTERPERSONAL SKILLS	-	-	1	0	0	1
18GE0XK	NEW AGE INNOVATION AND ENTREPRENEURSHIP	-	-	1	0	0	1
18GE0XL	NATIONAL CADET CORPS	-	-	1	0	0	1
18GE0XM	COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT	-	-	1	0	0	1
18GE0XN	DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES	-	-	1	0	0	1
18GE0XO	SOCIAL PSYCHOLOGY	-	-	1	0	0	1
18GE0XP	FM RADIO BROADCASTING TECHNOLOGY	-	-	1	0	0	1
DISCIPLINE E							
19CT020	OPEN SOURCE TECHNOLOGY	-	-	0	0	0	3
ONE CREDIT							
							1
18CS0XF	SCRIPTING LANGUAGES	-	-	1	0	0	1
18CS0XG	RASPBERRY PI	-	-	1	0	0	1
18CS0XG 18CS0XK	RASPBERRY PI TENSOR FLOW	- - -	- - -				
18CS0XG 18CS0XK OPEN ELECT	RASPBERRY PI TENSOR FLOW VES	-	-	1	0	0	1
18CS0XG 18CS0XK OPEN ELECT 18AE0YA	RASPBERRY PI TENSOR FLOW VES NON-DESTRUCTIVE TESTING	-  -  -  -	-	1 1	0 0	0 0	1 1
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB	RASPBERRY PI TENSOR FLOW IVES NON-DESTRUCTIVE TESTING SMART MATERIALS	-	- - - -	1 1 3 3 3	0 0	0 0	1 1 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA	RASPBERRY PI TENSOR FLOW IVES NON-DESTRUCTIVE TESTING SMART MATERIALS FUNDAMENTALS OF AIRCRAFT ENGINEERING	-	- - - - -	1 1	0 0	0 0	1 1
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING SMART MATERIALS FUNDAMENTALS OF AIRCRAFT ENGINEERING ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY		- - - - - -	1 1 3 3 3	0 0	0 0	1 1 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY	-	- - - - - -	1 1 3 3 3 3	0 0 0 0 0	0 0 0 0 0	1 1 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB	RASPBERRY PI TENSOR FLOW IVES NON-DESTRUCTIVE TESTING SMART MATERIALS FUNDAMENTALS OF AIRCRAFT ENGINEERING ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY HUMAN ENGINEERING AND SAFETY IN AGRICULTURE	-	- - - - - -	1 1 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0	1 1 3 3 3 3 3
18CS0XG 18CS0XK  OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY  MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE	-	- - - - - - -	1 1 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0	1 1 3 3 3 3 3 3
18CS0XG 18CS0XK  OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YD	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING SMART MATERIALS FUNDAMENTALS OF AIRCRAFT ENGINEERING ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY HUMAN ENGINEERING AND SAFETY IN AGRICULTURE ENERGY MANGEMENT IN AGRICULTURE FARM MECHANISATION	-	- - - - - - - - -	1 1 3 3 3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0 0	1 1 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK  OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YD 18AG0YD 18AG0YD	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING	- - - - - - - - -	- - - - - - - - - -	1 1 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0	1 1 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YC 18AG0YD 18AG0YD 18AU0YA 18AU0YB	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS	- - - - - - - - - -	- - - - - - - - - - -	1 1 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	1 1 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YB 18AG0YC 18AG0YD 18AU0YA 18AU0YB	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING	- - - - - - - - - - -		1 1 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	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YB 18AG0YC 18AG0YD 18AU0YA 18AU0YB 18AU0YC 18AU0YC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY			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	1 1 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YC 18AG0YC 18AU0YD 18AU0YC 18AU0YC 18AU0YD 18AU0YC	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YC 18AG0YC 18AU0YA 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YC	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YC 18AG0YD 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YE 18BT0YA 18BT0YB	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YC 18AG0YC 18AG0YD 18AU0YA 18AU0YB 18AU0YC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YA 18AG0YC 18AG0YC 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YC 18AG0YC 18AG0YC 18AU0YA 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18BT0YA 18BT0YA 18BT0YC 18CE0YA 18CE0YB	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YC 18AU0YA 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18BT0YA 18BT0YB 18BT0YC 18CE0YA	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CS0XG 18CS0XK OPEN ELECT 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YD 18AU0YA 18AU0YA 18AU0YC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YD 18AU0YA 18AU0YA 18AU0YB 18AU0YC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YD 18AU0YA 18AU0YA 18AU0YB 18AU0YC 18CE0YC 18CE0YC 18CE0YC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AE0YA 18AE0YB 18AE0YC 18AG0YA 18AG0YB 18AG0YC 18AG0YC 18AG0YC 18AU0YA 18AU0YA 18AU0YB 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18AU0YC 18CE0YA 18CE0YA 18CE0YC 18CE0YC 18CE0YF	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT  WEALTH FROM WASTE			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AEOYA 18AEOYB 18AEOYC 18AGOYA 18AGOYA 18AGOYC 18AGOYC 18AGOYC 18AUOYA 18AUOYA 18AUOYB 18AUOYC 18CEOYA 18CEOYA 18CEOYC 18CEOYC 18CEOYC 18CEOYC 18CEOYC 18CEOYC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT  WEALTH FROM WASTE  RISK AND SAFETY MANAGEMENT  ENERGY SCIENCE AND ENGINEERING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AEOYA 18AEOYB 18AEOYC 18AGOYA 18AGOYA 18AGOYC 18AGOYC 18AGOYC 18AUOYC 18CEOYA 18ETOYA 18ETOYA 18CEOYA 18CEOYC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT  WEALTH FROM WASTE  RISK AND SAFETY MANAGEMENT  ENERGY SCIENCE AND ENGINEERING  CONCEPTS OF REMOTE SENSING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECTI 18AEOYA 18AEOYB 18AEOYC 18AGOYA 18AGOYA 18AGOYC 18AGOYC 18AGOYC 18AUOYA 18AUOYA 18AUOYB 18AUOYC 18CEOYA 18CEOYA 18CEOYC 18CEOYC 18CEOYC 18CEOYC 18CEOYC 18CEOYC	RASPBERRY PI TENSOR FLOW  VES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT  WEALTH FROM WASTE  RISK AND SAFETY MANAGEMENT  ENERGY SCIENCE AND ENGINEERING			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
18CSOXG 18CSOXK OPEN ELECT 18AEOYA 18AEOYB 18AEOYC 18AGOYA 18AGOYA 18AGOYC 18AGOYC 18AGOYD 18AUOYA 18AUOYB 18AUOYC 18CEOYA 18CEOYA 18CEOYA 18CEOYC	RASPBERRY PI TENSOR FLOW  IVES  NON-DESTRUCTIVE TESTING  SMART MATERIALS  FUNDAMENTALS OF AIRCRAFT ENGINEERING  ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY  HUMAN ENGINEERING AND SAFETY IN AGRICULTURE  ENERGY MANGEMENT IN AGRICULTURE  FARM MECHANISATION  AUTOMOTIVE ENGINEERING  VEHICLE CONTROL SYSTEMS  PUBLIC TRANSPORT MANAGEMENT  TECHNOLOGIES FOR GREEN MOBILITY  TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES  BIOFUELS  MUSHROOM CULTIVATION AND VERMICOMPOSTING  FORENSIC TECHNOLOGY  GREEN BUILDINGS  DISASTER PREPAREDNESS AND PLANNING  ENVIRONMENTAL IMPACT ASSESSMENT  BUILDING SERVICES  INDUSTRIAL WASTE MANAGEMENT  WEALTH FROM WASTE  RISK AND SAFETY MANAGEMENT  ENERGY SCIENCE AND ENGINEERING  CONCEPTS OF REMOTE SENSING  E-LEARNING TECHNIQUES			1 1 1 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	1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

18CS0YE	AGENT BASED INTELLIGENT SYSTEMS	T-	<b>I</b> -	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	-	-	3	0	0	3
18CS0YI	OPERATING SYSTEM CONCEPTS	-	-	3	0	0	3
18CS0YJ	OBJECT ORIENTED PROGRAMMING	-	-	3	0	0	3
18EC0YA	BASICS OF ANALOG AND DIGITAL ELECTRONICS	-	-	3	0	0	3
18EC0YB	AUTOMOTIVE ELECTRONICS	<del> </del> -	-	3	0	0	3
18EC0YC	PCB DESIGN AND PROTOTYPING	<del> </del> -	-	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	<del> </del> -	-	3	0	0	3
18EC0YG	FUNDAMENTALS OF EMBEDDED SYSTEMS	<del> </del> -	-	3	0	0	3
18EC0YH	PRINCIPLES OF COMMUNICATION SYSTEMS	<del> </del> -	-	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	1-	<del> </del> -	3	0	0	3
18EI0YB	SENSOR TECHNOLOGY	1-	<del> </del> -	3	0	0	3
18EI0YC	FUNDAMENTALS OF VIRTUAL INSTRUMENTATION	<del> </del> -	<del> </del> -	3	0	0	3
18EI0YD	OPTOELECTRONICS AND LASER INSTRUMENTATION	1-	<del> </del> -	3	0	0	3
18FD0YA	TRADITIONAL FOODS	<del> -</del>	<del> </del> -	3	0	0	3
18FD0YB	FOOD LAWS AND REGULATIONS	<del> </del> -	-	3	0	0	3
18FD0YC	POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES	<del> </del> -	1-	3	0	0	3
18FT0YA	FASHION CRAFTS	<del> </del> -	1-	3	0	0	3
18FT0YB	FASHION ACCESSORIES	<del> </del> -	1-	3	0	0	3
18FT0YC	FASHION VISUAL MERCHANDISING	<del> </del> -	1-	3	0	0	3
18FT0YD	INTERIOR DESIGN	<del> </del> -	1-	3	0	0	3
18FT0YE	SURFACE EMBELLISHMENT	<del> </del> -	-	3	0	0	3
18GE01	BUSINESS ANALYTICS	-	-	3	0	0	3
18GE02	INDUSTRIAL SAFETY	-	-	3	0	0	3
18GE03	OPERATIONS RESEARCH	<del> </del> -	-	3	0	0	3
18GE04	COST MANAGEMENT OF ENGINEERING PROJECTS	<del> </del> -	-	3	0	0	3
18GE05	COMPOSITE MATERIALS	<del> </del> -	-	3	0	0	3
18GE06	WASTE TO ENERGY	<del> </del> -	-	3	0	0	3
18IT0YA	DATABASE MANAGEMENT SYSTEMS	<del> </del> -	-	3	0	0	3
18IT0YB	DATA STRUCTURES AND ALGORITHMS	<del> </del> -	-	3	0	0	3
18IT0YC	DATA SCIENCES AND ANALYTICS	†-	<del> </del> -	3	0	0	3
18IT0YD	OBJECT ORIENTED PROGRAMMING	†-	<del> </del> -	3	0	0	3
18IT0YE	ARTIFICIAL INTELLIGENCE	<del> </del> -	-	3	0	0	3
18ME0YA	INDUSTRIAL PROCESS ENGINEERING	<del> </del> -	-	3	0	0	3
18ME0YB	SAFETY ENGINEERING	<del> </del> -	-	3	0	0	3
18ME0YC	MAINTENANCE ENGINEERING	1-	-	3	0	0	3
18ME0YD	BASICS OF NON-DESTRUCTIVE TESTING	1-	-	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	1-	-	3	0	0	3
18ME0YI	CONCEPTS OF ENGINEERING DESIGN	1-	-	3	0	0	3
18ME0YJ	OIL HYDRAULICS AND PNEUMATICS	1-	-	3	0	0	3
18ME0YK	ENERGY AUDITING AND MANAGEMENT	<del> </del> -	-	3	0	0	3
18ME0YL	LEAN SIX SIGMA	1-	-	3	0	0	3
18ME0YM	HEATING VENTILATION AND AIRCONDITIONING	1-	-	3	0	0	3
18TTOYA	YARN AND FABRIC MANUFACTURE	<del> </del> -	-	3	0	0	3
18TTOYB	COLOURATION OF TEXTILES	1-	-	3	0	0	3
18TTOYC	TEXTILES IN ENGINEERING APPLICATION	<del> </del> -	-	3	0	0	3
18TT0YD	GENERAL TEXTILE TECHNOLOGY	1-	-	3	0	0	3
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