	B.E. MECHATRONIC	_					
	Minimum Credits to be Earn	ed 170.0					
First Semeste	r						
	_	Objective	s &Outcomes				Т
Code No.	Course			L	т	P	c
		PEOs	POs				<u> </u>
18MC101	ENGINEERING MATHEMATICS I	1,11	a,b,c	3	1	0	4
18MC102	ENGINEERING PHYSICS I	1,111	a,b,i	2	0	2	3
18MC103	ENGINEERING CHEMISTRY I	1,11	a,b,g	2	0	2	3
18MC104	CIRCUIT THEORY	I	a,b	2	0	2	3
18HS101	COMMUNICATIVE ENGLISH I	III	i,j	1	0	2	2
18MC106	ENGINEERING GRAPHICS	1,111	a,i,j	1	0	4	3
101110100	ENGINEERING GIVILLINGS	.,	Total		1	12	18.0
Second Seme	ctor		Total	'''	'	12	10.0
Second Seme	Ster -						
Code No.	Course Objectives &Outcomes	s &Outcomes	Ι.	Ιτ	١ ۾	l c	
Code No.	Course		POs	L	1 '	P	١٢
40140004	ENCINEEDING MATHEMATICS II	PEOs		_	1	_	<b>—</b>
18MC201	ENGINEERING MATHEMATICS II	<u>'</u>	a,b	3	1	0	4
18MC202	ENGINEERING PHYSICS II - MECHANICS	I	a,b	3	1	0	4
18MC203	ENGINEERING CHEMISTRY - II	I	a,b	2	0	2	3
18MC204	C PROGRAMMING	1,11	a,b,c,e	2	0	2	3
	LANGUAGE ELECTIVE	<u>-</u>	1-	-	-	-	2
18MC206	ELECTRON DEVICES AND CIRCUITS	1,11	a,b,c	2	0	2	3
18MC207	ENGINEERING PRACTICE LABORATORY	1,11,111	a,e,h	0	0	2	1
101010207	ENGINEERING FRACTICE EABORATORY	1,11,111			2		
			Total	12		8	20.0
Third Semeste	er						
		Objective	s &Outcomes	l .	l _	l _	١.
Code No.	Course			L	т	P	C
	ENGINEEDING MATHEMATICO III	PEOs	POs				
18MC301	ENGINEERING MATHEMATICS III	I	a,b	3	1	0	4
18MC302	ELECTRICAL MACHINES	1,11	a,b,c,m	3	0	2	4
18MC303	DIGITAL ELECTRONICS	1,11,111	a,b,c,d,f,m	3	0	0	3
18MC304	STRENGTH OF MATERIALS	ı	a,b,m,n	3	1	0	4
18MC305	FLUID MECHANICS AND HYDRAULIC MACHINES	1,111	a,b,i	2	0	2	3
18MC306	MANUFACTURING TECHNOLOGY	1,11	a,c,m	3	0	0	3
						_	<u> </u>
18MC307	DIGITAL ELECTRONICS LABORATORY	II	c,d,e,m	0	0	2	1
18MC308	MANUFACTURING TECHNOLOGY LABORATORY	1,11,111	a,e,i,m	0	0	2	1
18GE301	SOFT SKILLS - VERBAL ABILITY	-	-	2	0	0	0
			Total	19	2	8	23.0
Fourth Semes	ter						
		Ohioativa	- 9 Out				
Code No.	Course	Objective	s &Outcomes	L	Т	Р	l c
		PEOs					
18MC401	ENGINEERING MATHEMATICS IV	ı	a,b	3	1	0	4
18MC402	SENSORS AND SIGNAL CONDITIONING	1,11	a,c,n	3	0	0	3
18MC403	POWER ELECTRONICS AND DRIVES	1,11	a,b,c,n	3	0	2	4
18MC404	FLUID POWER SYSTEM	1,11	a,c,e,m,n	2	0	2	3
18MC405	THEORY OF MACHINES	1,11	a,b,c,m	3	1	0	4
18MC406	METROLOGY AND MEASUREMENTS	l	a,b,n	3	0	0	3
18MC407	SENSORS LABORATORY	1,11	a,c,e,n	0	0	2	1
18MC408	COMPUTER AIDED DESIGN LABORATORY	1,11	a,e,m	0	0	4	2
18HS001	ENVIRONMENTAL SCIENCE	I,II	a,b,g	2	0	0	0
18GE401	SOFT SKILLS-REASONING	<del>-   '</del>	-	2	0	0	0
1001-01	OST I SINEED INCINOCINITO		Total		2	10	24.0
F:## 0	_		iotai	<u> </u>		10	24.0
Fifth Semeste	r						
		Objective	Objectives &Outcomes		I		
Code No.	Course	•		-	Т Т	Р	C
		PEOs	POs		<u> </u>		$\bot$
18MC501	CONTROL SYSTEMS	1,11	a,b,c,d,n	3	1	0	4
18MC502	ROBOTICS	1,11	b,c,e,m,n	3	0	0	3
18MC503	MICROPROCESSORS AND MICROCONTROLLER	1,11	a,b,c,e,m	3	0	0	3
	THERMODYNAMICS AND HEAT TRANSFER	1,11	a,b,d,n	3	1	0	4
18MC504			1				3
18MC504		-	-	-	-	-	
18MC504	PROFESSIONAL ELECTIVE I	-	-  -				2
	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II	-	-	-	-	-	3
18MC507	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY	- -    ,	- - e,k,m,n	- 0	- 0	- 4	2
18MC507 18MC508	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY MICROPROCESSORS AND MICROCONTROLLER LABORATORY	- -   ,      ,	e,k,m,n	- 0 0	- 0 0	- 4 2	2
18MC507	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY			- 0	- 0	- 4	2 1 0
18MC507 18MC508	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY MICROPROCESSORS AND MICROCONTROLLER LABORATORY			- 0 0	- 0 0	- 4 2	2
18MC507 18MC508	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY MICROPROCESSORS AND MICROCONTROLLER LABORATORY SOFT SKILLS - APTITUDE I		a,b,c,e,m -	- 0 0	- 0 0	- 4 2 2	2 1 0
18MC507 18MC508 18GE501	PROFESSIONAL ELECTIVE I PROFESSIONAL ELECTIVE II ROBOTICS LABORATORY MICROPROCESSORS AND MICROCONTROLLER LABORATORY SOFT SKILLS - APTITUDE I	I,II	a,b,c,e,m -	- 0 0	- 0 0	- 4 2 2	2 1 0

PROJECTION   PRO			I					
BH\$5002								
SHARCACO   ONC TECHNOLOGY			PEOs	POs				
BIRCADON   AACHINE DESIGN			Ш	h,k	2	0	0	2
IBMOCRO# EMBEDOED SYSTEM SESION	18MC602		1,11	a,e,m	3	0	0	3
PROFESSIONAL ELECTIVE IV	18MC603	MACHINE DESIGN	1,11	a,b,c,m	3	1	0	4
PROFESSIONAL ELECTIVE IV	18MC604	EMBEDDED SYSTEM SESIGN	1,11	a,b,c,n	3	0	2	4
BIRCORF   COMPUTER AIDED MANUTACTURING LABORATORY   III   D.L.O., II   D.L.O, II   D.L.O., II   D.L.O., II   D.L.O, II   D.L.O,		PROFESSIONAL ELECTIVE III	-	-	-	-	-	3
18MC0200   OBJECT ORIENTED PROGRAMING LABORATORY   II		PROFESSIONAL ELECTIVE IV	-	-	-	-	-	3
	18MC607	COMPUTER AIDED MANUFACTURING LABORATORY	1,11,111	a,e,i,m	0	0	2	1
Total   11   11   12   12   12   12   12   1	18MC608	OBJECT ORIENTED PROGRAMMING LABORATORY	1,11	a,b,c,e,n	0	0	4	2
Seventh Semester	18GE601	SOFT SKILLS-APTITUDE II	-	-	0	0	2	0
Code No.   Course				Total	11	1	10	22.0
PEOS   POS   C	Seventh Seme	ester					<u> </u>	
PEOS   POS   C			Objectives	2 Outcomes				
1814/030   PRINCIPILES OF MANAGEMENT	Code No.	Course		aoutcomes	L	Т	Р	С
IBBNC792   MIGRO ELECTRO MECHANICAL SYSTEM			PEOs	POs				
ISBMC703   AUTOMOTIVE ELECTRONICS   IJI,   II	18HS003	PRINCIPLES OF MANAGEMENT	11,111	g,i,k	2	0	0	2
IBMC704	18MC702	MICRO ELECTRO MECHANICAL SYSTEM	1,11	a,b,c,e,m,n	3	0	0	3
PROFESSIONAL ELECTIVE V	18MC703	AUTOMOTIVE ELECTRONICS	1,11,111	a,f,g	3	0	0	3
PROFESSIONAL ELECTIVE VI	18MC704	INDUSTRIAL AUTOMATION	1,11	a,c,n	3	0	0	3
IBMC707   NDUSTRIAL AUTOMATION LABORATORY		PROFESSIONAL ELECTIVE V	-	-	-	-	-	3
18MC708   MICRO ELECTRO MECHANICAL SYSTEM LABORATORY		PROFESSIONAL ELECTIVE VI	-	-	-	-	-	3
18MC708   MICRO ELECTRO MECHANICAL SYSTEM LABORATORY	18MC707		1,11	a,c,e.m.n	0	0	2	
Total   Tota						_		1
Total   11			-	-	-	-		
PROFESSIONAL ELECTIVE VII	101110703	TROCEST WORKE		Total	-	-		-
Code No.   Course	Fight Sameste	or .		Total	'''	U	10	22.0
PROFESSIONAL ELECTIVE VIII	Eight Semeste	7 T	1					
PROFESSIONAL ELECTIVE VII	Code No	Course	Objectives	&Outcomes		т	P	l c l
PROFESSIONAL ELECTIVE VIII	oode No.	Course	PEOs	POs	-	•	•	ΙĭΙ
PROFESSIONAL ELECTIVE VIII		PROFESSIONAL ELECTIVE VII	-	-	-	-	_	3
PROFESSIONAL ELECTIVE IX			-	-	_	-	_	
Total   0			<u></u>	_	_	_		-
Total   0   0   18   18.0	18MC804				0	0	10	-
Code No.   Course   Dijectives & Outcomes   L   T   P   C	101010004	FROJECT WORKTI			U	U	10	9
Code No.   Course   Dijectives & Outcomes   PEOs   POs   P				Total	Λ	Λ	10	18 0
Code No.   Course   PEOS   POS   C   T   P   C   C	Flectives			Total	0	0	18	18.0
Name	Electives	T			0	0	18	18.0
18HSC01   CHINESE		Course	Objectives					
18HSF01   FRENCH		Course		&Outcomes				
18HSG01   GERMAN	Code No.			&Outcomes				
18HSH01	Code No.	LECTIVES		&Outcomes	L	Т	Р	С
18HSH01	Code No.  LANGUAGE E  18HSC01	LECTIVES CHINESE	PEOs	&Outcomes	L 1	<b>T</b>	<b>P</b>	<b>C</b>
18HSJ01   JAPANESE	Code No.  LANGUAGE E  18HSC01  18HSF01	LECTIVES CHINESE FRENCH	PEOs	&Outcomes	L 1 1	T 0 0	P 2 2 2	<b>C</b> 2 2
DISCIPLINE ELECTIVES	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01	LECTIVES CHINESE FRENCH GERMAN	PEOs	&Outcomes	L 1 1 1 1	T 0 0 0 0	P 2 2 2 2	2 2 2
18MC021   CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES   I   a,b,m   3   0   0   4   18MC022   PROCESS CONTROL   II   C,e,m,n   3   0   0   3   3   18MC023   AD-HOC AND SENSOR NETWORK   I,II,III   a,b,c,d,e,I,m,n   3   0   0   3   3   18MC024   INDUSTRIAL IOT   I,II,III   a,b,c,d,e,f   3   0   0   3   3   18MC025   INDUSTRIAL DRIVES AND CONTROL   -	Code No.  LANGUAGE E  18HSC01  18HSG01  18HSH01	LECTIVES CHINESE FRENCH GERMAN HINDI	PEOs	&Outcomes	1 1 1	T 0 0 0 0 0 0	P 2 2 2 2 2 2	2 2 2 2 2
18MC022   PROCESS CONTROL	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01	LECTIVES  CHINESE  FRENCH  GERMAN  HINDI  JAPANESE	PEOs	&Outcomes	1 1 1	T 0 0 0 0 0 0	P 2 2 2 2 2 2	2 2 2 2 2
18MC023   AD-HOC AND SENSOR NETWORK   I,II,III   a,b,c,d,e,I,m,n   3   0   0   3     18MC024   INDUSTRIAL IOT   I,II,III   a,b,c,d,e,f   3   0   0   3     18MC025   INDUSTRIAL DRIVES AND CONTROL   2   0   2   3     18MC026   LEAN MANUFACTURING   II,II   a,b,c,d,n   3   0   0   3     18MC027   GREEN MANUFACTURING   II,II   a,b,c,d,n   3   0   0   3     18MC028   WIRELESS SENSOR NETWORK   3   0   0   3     18MC029   COMPUTATIONAL FLUID DYNAMICS   3   0   0   3     18MC029   COMPUTATIONAL FLUID DYNAMICS   3   0   0   3     18MC029   INDUSTRIAL HYDRAULICS   1   0   0   1     18MC0XD   INDUSTRIAL HYDRAULICS   1   0   0   1     18MC0XE   DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB   1   0   0   1     18MC0XF   CNC SERVICING   1   0   0   1     18MC0XG   SMART FACTORY   1   0   0   1     18MC0XG   S	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E	LECTIVES  CHINESE  FRENCH  GERMAN  HINDI  JAPANESE  LECTIVES	PEOs	&Outcomes POs  - j	L 1 1 1 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
18MC024   INDUSTRIAL IOT	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES	PEOs	&Outcomes POs  - j	L 1 1 1 1 1 1 1 1 3	T 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 2 2 2 0	2 2 2 2 2 2
18MC025         INDUSTRIAL DRIVES AND CONTROL         -         -         2         0         2         3           18MC026         LEAN MANUFACTURING         I,III         a,b,c,d,n         3         0         0         3           18MC027         GREEN MANUFACTURING         -         -         3         0         0         3           18MC028         WIRELESS SENSOR NETWORK         -         -         3         0         0         3           18MC029         COMPUTATIONAL FLUID DYNAMICS         -         -         3         0         0         3           ONE CREDIT COURSES         18MC0XD         INDUSTRIAL HYDRAULICS         -         -         1         0         0         1           18MC0XE         DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB         -         -         1         0         0         1           18MC0XF         CNC SERVICING         -         -         1         0         0         1           18MC0XF         SMART FACTORY         -         -         1         0         0         1           18MC0XK         INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS         -         -         1         0         0 <td>Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022</td> <td>LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL</td> <td>PEOs  -                                    </td> <td>&amp;Outcomes POs  - j a,b,m c,e,m,n</td> <td>1 1 1 1 1 1 1 3 3 3 3</td> <td>T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>P 2 2 2 2 2 2 0 0 0</td> <td>2 2 2 2 2 2 2</td>	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL	PEOs  -	&Outcomes POs  - j a,b,m c,e,m,n	1 1 1 1 1 1 1 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
18MC026       LEAN MANUFACTURING       I,II       a,b,c,d,n       3       0       0       3         18MC027       GREEN MANUFACTURING       -       -       -       3       0       0       3         18MC028       WIRELESS SENSOR NETWORK       -       -       -       3       0       0       3         18MC029       COMPUTATIONAL FLUID DYNAMICS       -       -       -       3       0       0       3         ONE CREDIT COURSES         18MC0XD       INDUSTRIAL HYDRAULICS       -       -       -       1       0       0       1         18MC0XE       DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB       -       -       -       1       0       0       1         18MC0XF       CNC SERVICING       -       -       -       1       0       0       1         18MC0XG       SMART FACTORY       -       -       -       1       0       0       1         18MC0XK       INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS       -       -       1       0       0       1         OPEN ELECTIVES         18GE0C1       CORROSION SCIENCE AND ENGINEERING       I,II	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK	PEOs  -       -  -  -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n	L 1 1 1 1 1 1 1 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	2 2 2 2 2 2 2 4 3 3
18MC027       GREEN MANUFACTURING       -       -       -       3       0       0       3         18MC028       WIRELESS SENSOR NETWORK       -       -       -       3       0       0       3         18MC029       COMPUTATIONAL FLUID DYNAMICS       -       -       -       3       0       0       3         ONE CREDIT COURSES         18MC0XD       INDUSTRIAL HYDRAULICS       -       -       -       1       0       0       1         18MC0XE       DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB       -       -       -       1       0       0       1         18MC0XF       CNC SERVICING       -       -       -       1       0       0       1         18MC0XG       SMART FACTORY       -       -       -       1       0       0       1         18MC0XK       INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS       -       -       -       1       0       0       1         OPEN ELECTIVES         18GE0C1       CORROSION SCIENCE AND ENGINEERING       I,II       a,b,g       3       0       0       3         18GE0C2       ENERGY STORING DEVICES       I,I	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT	PEOs  -       -  -  -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n	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 2 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 4 3 3 3
18MC028       WIRELESS SENSOR NETWORK       -       -       3       0       0       3         18MC029       COMPUTATIONAL FLUID DYNAMICS       -       -       -       3       0       0       3         ONE CREDIT COURSES         18MC0XD       INDUSTRIAL HYDRAULICS       -       -       1       0       0       1         18MC0XE       DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB       -       -       1       0       0       1         18MC0XF       CNC SERVICING       -       -       1       0       0       1         18MC0XG       SMART FACTORY       -       -       -       1       0       0       1         18MC0XK       INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS       -       -       -       1       0       0       1         OPEN ELECTIVES         18GE0C1       CORROSION SCIENCE AND ENGINEERING       I,II       a,b,g       3       0       0       3         18GE0C2       ENERGY STORING DEVICES       I       a,b,c       3       0       0       3         18GE0C3       POLYMER SCIENCE       I,II       a,b,c       3       0       0	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	1 1 1 1 1 1 1 3 3 3 3 3 2	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 2	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3
18MC029   COMPUTATIONAL FLUID DYNAMICS   -   -   3   0   0   3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	1 1 1 1 1 1 1 3 3 3 3 3 2 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 2 0 0 0 0 0	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
Note that the color of the co	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC026 18MC027	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 1 1 1 1 1 1 1 3 3 3 3 3 2 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 2 0 0 0 0 0 2 0 0 0 0 0	2 2 2 2 2 2 2 2 2 3 3 3 3 3 3
18MC0XD   INDUSTRIAL HYDRAULICS   -   -   1   0   0   1     18MC0XE   DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB   -   -   1   0   0   1     18MC0XF   CNC SERVICING   -   -   1   0   0   1     18MC0XG   SMART FACTORY   -   -   1   0   0   1     18MC0XK   INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS   -   -   1   0   0   1     18MC0XK   INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS   -   -   1   0   0   1     18GEOC1   CORROSION SCIENCE AND ENGINEERING   I, II     a,b,g   3   0   0   3     18GEOC2   ENERGY STORING DEVICES   I     a,b   3   0   0   3     18GEOC3   POLYMER SCIENCE   I, II     a,b,c   3   0   0   3     18GEOP1   NANOMATERIALS SCIENCE   -   -   3   0   0   3     18GEOP2   SEMICONDUCTOR PHYSICS AND DEVICES   -   -   3   0   0   3	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC026 18MC027	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 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 2 2 3 3 3 3 3 3 3
18MCOXE         DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB         -         -         1         0         0         1           18MCOXF         CNC SERVICING         -         -         -         1         0         0         1           18MCOXG         SMART FACTORY         -         -         -         1         0         0         1           18MCOXK         INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS         -         -         -         1         0         0         1           OPEN ELECTIVES           18GEOC1         CORROSION SCIENCE AND ENGINEERING         I,II         a,b,g         3         0         0         3           18GEOC2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GEOC3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GEOP1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GEOP2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC026 18MC027	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 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 2 2 3 3 3 3 3 3 3
18MCOXF         CNC SERVICING         -         -         1         0         0         1           18MCOXG         SMART FACTORY         -         -         -         1         0         0         1           18MCOXK         INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS         -         -         -         1         0         0         1           OPEN ELECTIVES           18GEOC1         CORROSION SCIENCE AND ENGINEERING         I,II         a,b,g         3         0         0         3           18GEOC2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GEOC3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GEOP1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GEOP2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC025 18MC027 18MC028	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 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 2 2 3 3 3 3 3 3 3
18MCOXG       SMART FACTORY       -       -       -       1       0       0       1         18MCOXK       INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS       -       -       -       1       0       0       1         OPEN ELECTIVES         18GEOC1       CORROSION SCIENCE AND ENGINEERING       I,II       a,b,g       3       0       0       3         18GEOC2       ENERGY STORING DEVICES       I       a,b       3       0       0       3         18GEOC3       POLYMER SCIENCE       I,II       a,b,c       3       0       0       3         18GEOP1       NANOMATERIALS SCIENCE       -       -       3       0       0       3         18GEOP2       SEMICONDUCTOR PHYSICS AND DEVICES       -       -       -       3       0       0       3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT (	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 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 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
18MC0XK         INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS         -         -         -         1         0         0         1           OPEN ELECTIVES           18GE0C1         CORROSION SCIENCE AND ENGINEERING         I,II         a,b,g         3         0         0         3           18GE0C2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GE0C3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GE0P1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GE0P2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT ( 18MC0XD	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	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 3 3 3 3 3 3 3 3 3
OPEN ELECTIVES           18GE0C1         CORROSION SCIENCE AND ENGINEERING         I,II         a,b,g         3         0         0         3           18GE0C2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GE0C3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GE0P1         NANOMATERIALS SCIENCE         -         -         3         0         0         3           18GE0P2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC029  ONE CREDIT ( 18MC0XD	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES  INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	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 3 3 3 3 3 3 3 3 3 1
18GE0C1         CORROSION SCIENCE AND ENGINEERING         I,II         a,b,g         3         0         0         3           18GE0C2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GE0C3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GE0P1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GE0P2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT (  18MC0XD  18MC0XE	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES  INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 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 1 1 1
18GEOC2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GEOC3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GEOP1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GEOP2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT ( 18MC0XD  18MC0XC  18MC0XC  18MC0XC  18MC0XC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 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 1 1 1 1
18GEOC2         ENERGY STORING DEVICES         I         a,b         3         0         0         3           18GEOC3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GEOP1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GEOP2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT ( 18MC0XE  18MC0XF  18MC0XG  18MCOXG	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS	PEOS  -  -      -  -  -  -  -  -  -  -	&Outcomes POs  - j a,b,m c,e,m,n a,b,c,d,e,l,m,n a,b,c,d,e,f -	L 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 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 1 1 1 1
18GE0C3         POLYMER SCIENCE         I,II         a,b,c         3         0         0         3           18GE0P1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GE0P2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSG01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT ( 18MC0XF  18MC0XF  18MC0XG  18MCOXK  OPEN ELECTI	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES		&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 3 3 3 3 3 3 3 3 3 1 1 1 1
18GE0P1         NANOMATERIALS SCIENCE         -         -         -         3         0         0         3           18GE0P2         SEMICONDUCTOR PHYSICS AND DEVICES         -         -         -         3         0         0         3	Code No.  LANGUAGE E  18HSC01  18HSF01  18HSF01  18HSH01  18HSJ01  DISCIPLINE E  18MC021  18MC022  18MC023  18MC024  18MC025  18MC026  18MC027  18MC028  18MC029  ONE CREDIT ( 18MC0XC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES  CORROSION SCIENCE AND ENGINEERING		&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 3 3 3 3 3 3 3 3 3 3 1 1 1 1
18GE0P2 SEMICONDUCTOR PHYSICS AND DEVICES 3 0 0 3	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC026 18MC027 18MC028 18MC029 ONE CREDIT ( 18MC0XD 18MC0XD 18MC0XC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES  CORROSION SCIENCE AND ENGINEERING ENERGY STORING DEVICES		&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 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC025 18MC026 18MC027 18MC028 18MC029 ONE CREDIT ( 18MC0XD 18MC0XD 18MC0XC 18MC0XC 18MCOXC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES  CORROSION SCIENCE AND ENGINEERING ENERGY STORING DEVICES POLYMER SCIENCE		&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
10GLUF 3   AFFLIED LAGEN GOIEINGE	Code No.  LANGUAGE E 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC021 18MC022 18MC023 18MC024 18MC025 18MC026 18MC027 18MC028 18MC029 ONE CREDIT ( 18MC0XD 18MC0XC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS  COURSES  INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES  CORROSION SCIENCE AND ENGINEERING ENERGY STORING DEVICES POLYMER SCIENCE		&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 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18MC022 18MC023 18MC024 18MC025 18MC025 18MC026 18MC027 18MC028 18MC029 ONE CREDIT ( 18MC0XD 18MC0XC	LECTIVES  CHINESE FRENCH GERMAN HINDI JAPANESE LECTIVES  CONTROL SYSTEM AND DRIVES FOR ELECTRIC VEHICLES PROCESS CONTROL AD-HOC AND SENSOR NETWORK INDUSTRIAL IOT INDUSTRIAL DRIVES AND CONTROL LEAN MANUFACTURING GREEN MANUFACTURING WIRELESS SENSOR NETWORK COMPUTATIONAL FLUID DYNAMICS  COURSES INDUSTRIAL HYDRAULICS DESIGN AND ASSEMBLY OF ELECTRONICS COMPONENTS IN PCB CNC SERVICING SMART FACTORY INDUSTRIAL DATA COMMUNICATIONS PROTOCOLS VES  CORROSION SCIENCE AND ENGINEERING ENERGY STORING DEVICES POLYMER SCIENCE NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES		&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 1 1 1 1 1 1 1

18GE0P5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 3 0 3 0 3 0 3 0 3 0 1	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 1 1 1 1 1 1 1 1 1 1 1
18MCOYA	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 3 0 3 0 3 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
18MCOYD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 3 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18MCOYC	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 3 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18MCOYD   INDUSTRIAL DRIVES AND AUTOMATION   -   -   3   ADDITIONAL ONE CREDIT COURSE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0  1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 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 1 1 1 1 1 1 1 1 1
ADDITIONAL ONE CREDIT COURSE   186E0XA   ETYMOLOGY   -   -   -   1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0	
18GE0XA	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GE0XB   GENERAL PSYCHOLOGY	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GEOXC   NEURO BEHAVIORAL SCIENCE   III	0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GEOXD	0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GE0XE	0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1
18GEOXF	0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1
18GE0XG	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1
18GE0XH	0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GE0XH	0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 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 1 1 1 1
18GE0XH	0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 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 1 1 1
18GE0XJ   INTERPERSONAL SKILLS     1	0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 0	1 1 1 1 1 1 1 1 1
18GE0XK   NEW AGE INNOVATION AND ENTREPRENEURSHIP   -   -   1   18GE0XL   NATIONAL CADET CORPS   III, III   g,i   1   1   18GE0XM   COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT   -   -   1   18GE0XN   DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES   -   -   1   1   1   1   1   1   1   1	0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0	1 1 1 1 1 1 1 1
18GEOXL NATIONAL CADET CORPS  18GEOXM COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT  18GEOXN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES  18GEOXO SOCIAL PSYCHOLOGY  III i i 1  ONE CREDIT COURSES  18MCOXA COMMUNICATION PROTOCOLS  18MCOXB AC/DC DRIVES  18MCOXC ADVANCED METROLOGY AND QUALITY CONTROL  DISCIPLINE ELECTIVES  18MC001 ENGINEERING MATERIALS AND METALLURGY  18MC002 INDUSTRIAL ENGINEERING  18MC003 FINITE ELEMENT ANALYSIS  18MC004 DESIGN OF JIGS AND FIXTURES  18HS201 COMMUNICATIVE ENGLISH II  DISCIPLINE ELECTIVES  18HS201 COMMUNICATIVE ENGLISH II  DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS  I,II a,c,m 3  LARGUAGE ELECTIVES	0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0	1 1 1 1 1 1 1
18GEOXL NATIONAL CADET CORPS 18GEOXM COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT 18GEOXN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES 1 18GEOXO SOCIAL PSYCHOLOGY III i i 1  ONE CREDIT COURSES  18MCOXA COMMUNICATION PROTOCOLS III c 0 18MCOXB AC/DC DRIVES 1 18MCOXC ADVANCED METROLOGY AND QUALITY CONTROL 1  DISCIPLINE ELECTIVES  18MC001 ENGINEERING MATERIALS AND METALLURGY I,II a,b,c,n 3 18MC002 INDUSTRIAL ENGINEERING 1,III a,b,c,m 3 18MC004 DESIGN OF JIGS AND FIXTURES I,III a,b,c,m 3  LANGUAGE ELECTIVES  18HS201 COMMUNICATIVE ENGLISH II III i,j 1  DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS I,III a,c,m 3	0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0	1 1 1 1
18GE0XM COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT  18GE0XN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES  18GE0XO SOCIAL PSYCHOLOGY  III i 1  ONE CREDIT COURSES  18MC0XA COMMUNICATION PROTOCOLS  18MC0XB AC/DC DRIVES  18MC0XC ADVANCED METROLOGY AND QUALITY CONTROL  DISCIPLINE ELECTIVES  18MC001 ENGINEERING MATERIALS AND METALLURGY  18MC002 INDUSTRIAL ENGINEERING  18MC003 FINITE ELEMENT ANALYSIS  18MC004 DESIGN OF JIGS AND FIXTURES  18HS201 COMMUNICATIVE ENGLISH II  DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS  I,II a,b,c,m 3  LANGUAGE ELECTIVES	0 0 0 0 0 0	1 0 1 0 1 0 0 0 1 0 1 0	0 0 0	1 1 1 1
18GE0XN   DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES   -   -   1   1   1   1   1   1   1   1	0 0 0 0 0	1 0 1 0 0 0 1 0 1 0	0 0	1 1 1
18GE0XO   SOCIAL PSYCHOLOGY   III   i   1	0 0 0 0 0 0 0	0 0 1 0 1 0	0 0	1 1 1
ONE CREDIT COURSES           18MC0XA         COMMUNICATION PROTOCOLS         II         c         0           18MC0XB         AC/DC DRIVES         -         -         -         1           18MC0XC         ADVANCED METROLOGY AND QUALITY CONTROL         -         -         -         1           DISCIPLINE ELECTIVES           18MC001         ENGINEERING MATERIALS AND METALLURGY         I,II         a,b,d,e,m         3           18MC002         INDUSTRIAL ENGINEERING         I,II         a,b,c,n         3           18MC003         FINITE ELEMENT ANALYSIS         I,II         a,b,c,m         3           18MC004         DESIGN OF JIGS AND FIXTURES         I,II         a,b,c,m         3           LANGUAGE ELECTIVES         III         i,j         1           18MS201         COMMUNICATIVE ENGLISH II         III         i,j         1           DISCIPLINE ELECTIVES         I,III         a,c,m         3	0 0 0	0 0 1 0 1 0	0 0	1 1
18MC0XA   COMMUNICATION PROTOCOLS   II	0 0 0 0 0	1 0 1 0	0	1
18MC0XB	0 0 0 0 0	1 0 1 0	0	1
18MC0XC ADVANCED METROLOGY AND QUALITY CONTROL  DISCIPLINE ELECTIVES  18MC001 ENGINEERING MATERIALS AND METALLURGY I,II a,b,d,e,m 3  18MC002 INDUSTRIAL ENGINEERING I,II a,b,c,n 3  18MC003 FINITE ELEMENT ANALYSIS I,II a,b,c,m 3  18MC004 DESIGN OF JIGS AND FIXTURES I,II a,b,c,m 3  LANGUAGE ELECTIVES  18HS201 COMMUNICATIVE ENGLISH II III i,j 1  DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS I,II a,c,m 3	0 0 0	1 0		
DISCIPLINE ELECTIVES           18MC001         ENGINEERING MATERIALS AND METALLURGY         I,II         a,b,d,e,m         3           18MC002         INDUSTRIAL ENGINEERING         I,II         a,b,c,n         3           18MC003         FINITE ELEMENT ANALYSIS         I,II         a,b,c,m         3           18MC004         DESIGN OF JIGS AND FIXTURES         I,II         a,b,c,m         3           LANGUAGE ELECTIVES         III         i,j         1           18HS201         COMMUNICATIVE ENGLISH II         III         i,j         1           DISCIPLINE ELECTIVES         I,III         a,c,m         3           18MC005         DESIGN OF MATERIAL HANDLING SYSTEMS         I,II         a,c,m         3	0 0	3 0	0	
18MC001         ENGINEERING MATERIALS AND METALLURGY         I,II         a,b,d,e,m         3           18MC002         INDUSTRIAL ENGINEERING         I,II         a,b,c,n         3           18MC003         FINITE ELEMENT ANALYSIS         I,II         a,b,c,m         3           18MC004         DESIGN OF JIGS AND FIXTURES         I,II         a,b,c,m         3           LANGUAGE ELECTIVES         III         i,j         1           18HS201         COMMUNICATIVE ENGLISH II         III         i,j         1           DISCIPLINE ELECTIVES         I,III         a,c,m         3           18MC005         DESIGN OF MATERIAL HANDLING SYSTEMS         I,II         a,c,m         3	0			1
18MC002       INDUSTRIAL ENGINEERING       I,II       a,b,c,n       3         18MC003       FINITE ELEMENT ANALYSIS       I,II       a,b,c,m       3         18MC004       DESIGN OF JIGS AND FIXTURES       I,II       a,b,c,m       3         LANGUAGE ELECTIVES         18HS201       COMMUNICATIVE ENGLISH II       III       i,j       1         DISCIPLINE ELECTIVES         18MC005       DESIGN OF MATERIAL HANDLING SYSTEMS       I,II       a,c,m       3	0			
18MC003         FINITE ELEMENT ANALYSIS         I,II         a,b,c,m         3           18MC004         DESIGN OF JIGS AND FIXTURES         I,II         a,b,c,m         3           LANGUAGE ELECTIVES         IIII         i,j         1           18HS201         COMMUNICATIVE ENGLISH II         IIII         i,j         1           DISCIPLINE ELECTIVES         I,II         a,c,m         3           18MC005         DESIGN OF MATERIAL HANDLING SYSTEMS         I,II         a,c,m         3	0	3 ^	0	3
18MC004 DESIGN OF JIGS AND FIXTURES I,II a,b,c,m 3  LANGUAGE ELECTIVES  18HS201 COMMUNICATIVE ENGLISH II III i,j 1  DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS I,II a,c,m 3		٠ <b>١</b> ٠	0	3
LANGUAGE ELECTIVES  18HS201   COMMUNICATIVE ENGLISH II   III   I,j   1    DISCIPLINE ELECTIVES  18MC005   DESIGN OF MATERIAL HANDLING SYSTEMS   I,II   a,c,m   3	0	3 0	0	3
18HS201     COMMUNICATIVE ENGLISH II     III     i,j     1       DISCIPLINE ELECTIVES       18MC005     DESIGN OF MATERIAL HANDLING SYSTEMS     I,II     a,c,m     3		3 0	0	3
DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS  I,II a,c,m 3				
DISCIPLINE ELECTIVES  18MC005 DESIGN OF MATERIAL HANDLING SYSTEMS  I,II a,c,m 3	0	1 0	2	2
	0	3 0	0	3
· · · · · · · · · · · · · · · · · · ·				
LANGUAGE ELECTIVE  -  -   3	0	3 0	0	3
DISCIPLINE ELECTIVES		<u> </u>	Ů	
	0	3 0	0	3
	0		0	3
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0		0	3
7 7 7 7 7 7	0		0	3
	0		0	3
18MC011 DESIGN FOR MANUFACTURING AND ASSEMBLY I,II,III a,b,c,f,m 3	0	3 0	0	3
18MC012 PROCESS PLANNING AND COST ESTIMATION I,II,IIII a,b,c,k,m 3	0	3 0	0	3
OPEN ELECTIVES				
18AE0YA NON-DESTRUCTIVE TESTING 3	0	3 0	0	3
18AE0YB SMART MATERIALS 3	0	3 0	0	3
18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING 3	0	3 0	0	3
ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY			+	+ -
18AG0YA MANAGEMENT FOOD INDUSTRY 3	0	3   0	0	3
18AG0YB HUMAN ENGINEERING AND SAFETY IN AGRICULTURE 3	0	3 0	0	3
	0	3 0	0	3
	0		0	3
	, ,		0	3
			0	3
	0		0	3
	0		0	3
	0 0	2 1 ^		
	0 0 0		0	3
	0 0 0 0	3 0		3
18BT0YA BIOFUELS 3	0 0 0 0 0	3 0 3 0	0	
18BT0YA         BIOFUELS         -         -         3           18BT0YB         MUSHROOM CULTIVATION AND VERMICOMPOSTING         -         -         3	0 0 0 0	3 0 3 0 3 0	0	3
18BT0YA BIOFUELS 3 18BT0YB MUSHROOM CULTIVATION AND VERMICOMPOSTING 3	0 0 0 0 0	3 0 3 0 3 0		3
18BT0YA         BIOFUELS         -         -         3           18BT0YB         MUSHROOM CULTIVATION AND VERMICOMPOSTING         -         -         -         3           18BT0YC         FORENSIC TECHNOLOGY         -         -         3	0 0 0 0 0	3 0 3 0 3 0 3 0	0	
18BT0YA         BIOFUELS         -         -         3           18BT0YB         MUSHROOM CULTIVATION AND VERMICOMPOSTING         -         -         3           18BT0YC         FORENSIC TECHNOLOGY         -         -         3           18CE0YA         GREEN BUILDINGS         -         -         3	0 0 0 0 0 0	3 0 3 0 3 0 3 0 3 0	0	3
18BT0YA         BIOFUELS         -         -         3           18BT0YB         MUSHROOM CULTIVATION AND VERMICOMPOSTING         -         -         3           18BT0YC         FORENSIC TECHNOLOGY         -         -         3           18CE0YA         GREEN BUILDINGS         -         -         3           18CE0YB         DISASTER PREPAREDNESS AND PLANNING         -         -         3	0 0 0 0 0 0 0	3 0 3 0 3 0 3 0 3 0 3 0	0 0	3
18BT0YA         BIOFUELS         -         -         3           18BT0YB         MUSHROOM CULTIVATION AND VERMICOMPOSTING         -         -         3           18BT0YC         FORENSIC TECHNOLOGY         -         -         3           18CE0YA         GREEN BUILDINGS         -         -         3           18CE0YB         DISASTER PREPAREDNESS AND PLANNING         -         -         3           18CE0YC         ENVIRONMENTAL IMPACT ASSESSMENT         -         -         3	0 0 0 0 0 0 0	3 0 3 0 3 0 3 0 3 0 3 0 3 0	0 0 0	3 3 3

18CE0YF	WEALTH FROM WASTE	1		3	0	0	3
		-	-			_	
18CE0YG	RISK AND SAFETY MANAGEMENT	-	-	3	0	0	3
18CE0YH	ENERGY SCIENCE AND ENGINEERING	-	-	3	0	0	3
18CE0YI	CONCEPTS OF REMOTE SENSING	-	-	3	0	0	3
18CS0YA	E-LEARNING TECHNIQUES	-	-	3	0	0	3
18CS0YB	SOFTWARE TESTING AND QUALITY ASSURANCE	-	-	3	0	0	3
18CS0YC	JAVA FUNDAMENTALS	-	-	3	0	0	3
18CS0YD	NETWORK ENGINEERING AND MANAGEMENT	-	-	3	0	0	3
18CS0YE	AGENT BASED INTELLIGENT SYSTEMS	-	-	3	0	0	3
18CS0YF	E-BUSINESS	-	-	3	0	0	3
	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	-	-	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		-			0	0	3
	PRINCIPLES OF COMMUNICATION SYSTEMS	<del>-</del>	_	3			
18EC0YI	ELECTRONIC PRODUCT DESIGN AND PACKAGING	<u>-</u>	-	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
18EI0YD	OPTOELECTRONICS AND LASER INSTRUMENTATION	<u> </u>	-	3	0	0	3
			-				3
18FD0YA	TRADITIONAL FOODS	-	-	3	0	0	-
18FD0YB	FOOD LAWS AND REGULATIONS	-	-	3	0	0	3
18FD0YC	POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES	I-	-	3	0	0	3
18FT0YA	FASHION CRAFTS	-	-	3	0	0	3
	FASHION CRAFTS FASHION ACCESSORIES	-	-				
18FT0YA		-	-	3	0	0	3
18FT0YA 18FT0YB	FASHION ACCESSORIES	-	-	3	0	0	3
18FT0YA 18FT0YB 18FT0YC	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING	- - - -	-	3 3	0 0	0 0	3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT	- - - - -	- - - -	3 3 3	0 0 0	0 0 0	3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS	- - - - -	-	3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY	- - - - -	-	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0 0	3 3 3 3 3 3
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH	- - - - - -	-	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 18GE04	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 3	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 18GE05	FASHION ACCESSORIES FASHION VISUAL MERCHANDISING INTERIOR DESIGN SURFACE EMBELLISHMENT BUSINESS ANALYTICS INDUSTRIAL SAFETY OPERATIONS RESEARCH COST MANAGEMENT OF ENGINEERING PROJECTS COMPOSITE MATERIALS			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 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	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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA	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	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 18IT0YB	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	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
18FT0YA 18FT0YB 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA	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	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
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18FT0YA 18FT0YB 18FT0YC 18FT0YC 18FT0YD 18FT0YE 18GE01 18GE02 18GE03 18GE04 18GE05 18GE06 18IT0YA 18IT0YB	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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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18MC013	VIRTUAL INSTRUMENTATION	II	c,e,n	3	0	0	3
18MC014	MEDICAL MECHATRONICS	1,11,111	a,f,g,n	3	0	0	3
18MC015	MODELLING OF INDUSTRIAL ROBOTS	1,11	a,b,c,e,n	3	0	0	3
18MC016	FUZZY LOGIC AND ARTIFICIAL NEURAL NETWORK	1,11	a,e,n	3	0	0	3
18MC017	ARTIFICIAL INTELLIGENCE	1,11	a,b,c,m,n	3	0	0	3
18MC018	OPTIMIZATION TECHNIQUES	1,11	a,b,c,e,m,n	3	0	0	3
18MC019	MACHINE LEARNING	1,11	a,c,e,m	3	0	0	3
18MC020	LINEAR INTEGRATED CIRCUITS	1,11	a,b,c,n	3	0	0	3