B.E. MECHANICAL ENGINEERING
Minimum Credits to be Earned 170.0

First Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18ME101	ENGINEERING MATHEMATICS I	I,II	a,b	3	1	0	4
18ME102	ENGINEERING PHYSICS I-STATICS	I,II,III	a,b,i	2	0	2	3
18ME103	ENGINEERING CHEMISTRY I	I,II,III	a,b,c,d,n	2	0	2	3
18ME104	BASICS OF ELECTRICAL ENGINEERING	I,II,III	a,b,c,d,m	2	0	2	3
18HS101	COMMUNICATIVE ENGLISH I	I,II,III	i,j	1	0	2	2
18ME106	COMPUTER PROGRAMMING I	I,II,III	a,b,e,m	0	0	4	2
18ME107	ENGINEERING DRAWING	I,II,III	a,j,m	0	0	4	2
			Total	10	1	16	19.0

Second Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18ME201	ENGINEERING MATHEMATICS II	I,II	a,b	3	1	0	4
18ME202	ENGINEERING PHYSICS II - DYNAMICS	I,II,III	a,b,m	2	1	0	3
18ME203	ENGINEERING CHEMISTRY II	I,II,III	a,b,c,d,n	2	0	2	3
18ME204	BASIC ELECTRONICS ENGINEERING	I,II,III	a,b,c,d,m	2	0	2	3
18ME205	MANUFACTURING PROCESSES	I,II,III	a,b,g,i,j,n	2	0	2	3
	LANGUAGE ELECTIVE	-	-	-	-	-	2
18ME206	COMPUTER PROGRAMMING II	I,II,III	a,b,e,f,m	0	0	4	2
			Total	11	2	10	20.0

Third Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18ME301	ENGINEERING MATHEMATICS III	I,II	a,b	3	1	0	4
18ME302	FLUID MECHANICS AND MACHINERY	I,II,III	a,b,d,e,i,o	2	1	2	4
18ME303	ENGINEERING THERMODYNAMICS	I,II,III	a,b,c,d,e,f,g,m ,o	3	1	0	4
18ME304	MANUFACTURING TECHNOLOGY	I,II,III	a,b,g,i,j,l,n	2	0	2	3
18ME305	KINEMATICS OF MACHINES	I,II,III	a,b,l,m	3	1	0	4
18ME306	MACHINE DRAWING LABORATORY	I,II,III	a,b,c,f,h,i,j,m	1	0	2	2
18ME307	COMPUTER AIDED MODELLING LABORATORY I	I,II,III	e,i,j,m	0	0	4	2
18GE301	SOFT SKILLS - VERBAL ABILITY	-	-	2	0	0	0
			Total	16	4	10	23.0

Fourth Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18ME401	NUMERICAL METHODS	I,II	a,b	3	1	0	4
18ME402	APPLIED HYDRAULICS AND PNEUMATICS	I,II,III	a,b,c,e,l	2	0	2	3
18ME403	DYNAMICS OF MACHINES	I,II,III	a,b,l,m	2	1	2	4
18ME404	STRENGTH OF MATERIALS	I,II,III	a,b,c,d,e,f,j,l, m	2	1	2	4
18ME405	THERMAL ENGINEERING	I,II,III	a,b,c,e,g,o	2	1	2	4
18ME406	MICROPROCESSORS AND MICROCONTROLLER	I,II,III	a,b,c,e,m	2	0	2	3
18ME407	COMPUTER AIDED MODELLING LABORATORY II	I,II,III	e,i,j,m	0	0	4	2
18HS001	ENVIRONMENTAL SCIENCE	I,II	a,b	2	0	0	0
18GE401	SOFT SKILLS-REASONING	-	-	2	0	0	0
			Total	17	4	14	24.0

Fifth Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18ME501	METROLOGY AND INSTRUMENTATION	I,II,III	a,b,e,h,i,j,l,n	2	0	2	3
18ME502	DESIGN OF MACHINE ELEMENTS	I,II,III	a,b,c,d,l,m	3	1	0	4
18ME503	COMPUTER AIDED MANUFACTURING I	I,II,III	a,b,e,i,j,l,n	2	0	2	3
18ME504	HEAT AND MASS TRANSFER	I,II,III	a,b,c,d,e,g,o	3	1	2	5
	PROFESSIONAL ELECTIVE I	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE II	-	-	-	-	-	3
18GE501	SOFT SKILLS - APTITUDE I	-	-	0	0	2	0
			Total	10	2	8	21.0

Sixth Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				

18HS002	PROFESSIONAL ETHICS IN ENGINEERING	-	-	2	0	0	2
18ME602	MECHATRONICS	I,II,III	a,b,c,e,l,m	2	0	2	3
18ME603	FINITE ELEMENT ANALYSIS	I,II,III	a,b,c,l,m	3	1	0	4
18ME604	DESIGN OF TRANSMISSION SYSTEMS	I,II,III	a,b,c,l,m,n	3	1	0	4
18ME605	COMPUTER AIDED MANUFACTURING II	I	a	2	0	2	3
	PROFESSIONAL ELECTIVE III	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IV	-	-	-	-	-	3
18ME608	COMPUTER AIDED ENGINEERING LABORATORY	I	a	0	0	4	2
18GE601	SOFT SKILLS-APTITUDE II	-	-	0	0	2	0
			Total	12	2	10	24.0

Seventh Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
18HS003	PRINCIPLES OF MANAGEMENT	-	-	2	0	0	2
18ME702	AUTOMOBILE ENGINEERING	I,II,III	a,b,c,e,n	3	0	0	3
18ME703	OPERATION RESEARCH	I,II,III	a,b,c,e,f,m	3	1	0	4
18ME704	INDUSTRIAL ROBOTICS	I,II,III	a,b,f,l,m,n,o	2	0	2	3
	PROFESSIONAL ELECTIVE V	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE VI	-	-	-	-	-	3
18ME707	PROJECT WORK I	I,II,III	a,b,c,d,e,f,g,h,i,j,k,l	0	0	6	3
			Total	10	1	8	21.0

Eight Semester

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
	PROFESSIONAL ELECTIVE VII	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE VIII	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IX	-	-	-	-	-	3
18ME804	PROJECT WORK II	I	a	0	0	18	9
			Total	0	0	18	18.0

Electives

Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
LANGUAGE ELECTIVES							
18HSC01	CHINESE	-	-	1	0	2	2
18HSF01	FRENCH	I	j	1	0	2	2
18HSG01	GERMAN	-	-	1	0	2	2
18HSH01	HINDI	-	-	1	0	2	2
18HSJ01	JAPANESE	-	-	1	0	2	2
DISCIPLINE ELECTIVES							
18ME001	COMPUTER AIDED DESIGN	I,II,III	a,b,m,n	3	0	0	3
18ME002	DESIGN OF JIGS, FIXTURES AND PRESS TOOLS	I,II,III	a,b,c,f,m,n	3	0	0	3
18ME003	NON - TRADITIONAL MACHINING PROCESSES	I,II,III	a,b,e,n	3	0	0	3
18ME004	WELDING TECHNOLOGY	I,II,III	a,b,c,d,e,f,g,m,n	3	0	0	3
18ME006	PROCESS PLANNING AND COST ESTIMATION	I,II,III	a,b,c,h,i,j,k,l,m,n	3	0	0	3
18ME007	INTERNAL COMBUSTION ENGINES	I,II,III	a,f,g,l,o	3	0	0	3
18ME008	REFRIGERATION AND AIR-CONDITIONING	I,II,III	a,b,e,f,g,l,o	3	0	0	3
18ME010	STATISTICAL QUALITY CONTROL AND RELIABILITY ENGINEERING	I,II,III	a,b,c,d,e,m,n	3	0	0	3
18ME011	MECHANICAL VIBRATIONS	I,II,III	a,b,c,d,e,j,l,m,n	3	0	0	3
18ME012	SUPPLY CHAIN MANAGEMENT	I,II,III	a,b,e,f,g,h,i,j,k,n	3	0	0	3
18ME013	COMPUTER INTEGRATED MANUFACTURING	I,II,III	a,b,c,e,n	3	0	0	3
18ME014	ADVANCED CASTING AND FORMING PROCESSES	I,II,III	a,b,c,k,l,n	3	0	0	3
18ME015	INDUSTRIAL SAFETY ENGINEERING	I,II,III	a,b,e,f,h,i,j,l,m,n,o	3	0	0	3
18ME016	ADDITIVE MANUFACTURING	I,II,III	a,b,c,e,n	3	0	0	3
18ME017	NON - DESTRUCTIVE TESTING	I,II,III	a,b,c,d,g,n	3	0	0	3
18ME018	RENEWABLE ENERGY SOURCES	I,II,III	a,c,d,f,g,l,m,o	3	0	0	3
18ME019	CRYOGENIC ENGINEERING	I,II,III	a,b,c,e,f,g,o	3	0	0	3
18ME020	ENGINEERING TRIBOLOGY	I,II,III	a,b,c,g,k,l,m	3	0	0	3
18ME021	POWER PLANT ENGINEERING	I,II,III	a,b,c,f,g,k,o	3	0	0	3
18ME022	OPTIMIZATION TECHNIQUES	I,II,III	a,b,c,d,e,f,g,i,j,l,m	3	0	0	3
18ME023	DESIGN FOR MANUFACTURE AND ASSEMBLY	I,II,III	a,b,c,e,g,l,n	3	0	0	3
18ME024	INDUSTRIAL ENGINEERING	I,II,III	a,b,c,e,n	3	0	0	3

18ME025	INDUSTRIAL MAINTENANCE ENGINEERING	I,II,III	a,b,c,e,f,g,i,j,k,m,n	3	0	0	3
18ME026	COMPUTATIONAL FLUID DYNAMICS	I,II,III	a,b,c,d,e,n,o	3	0	0	3
18ME027	FUELS AND COMBUSTION	I,II,III	a,b,f,g,o	3	0	0	3
18ME028	PRODUCTION AND OPERATIONS MANAGEMENT	I,II,III	a,b,c,k,n	3	0	0	3
18ME029	GREEN MANUFACTURING	I,II,III	a,b,c,d,g,m,n	3	0	0	3
18ME030	PRODUCT DEVELOPMENT AND REVERSE ENGINEERING	I,II,III	a,b,c,d,e,f,j,m,n	3	0	0	3
18ME031	NANOMATERIALS AND NANOTECHNOLOGY	I,II,III	a,b,c,d,e,f,g,n	3	0	0	3
18ME032	TOTAL QUALITY MANAGEMENT	I,II,III	a,b,c,e,f,g,h,k,m,n	3	0	0	3
18ME033	GAS DYNAMICS AND TURBO MACHINERY	I,II	a,b	3	0	0	3
18ME034	ENERGY CONSERVATION AND MANAGEMENT	-	-	3	0	0	3
ENTREPRENEURSHIP ELECTIVES							
18GE0E1	ENTREPRENEURSHIP DEVELOPMENT I	II,III	f,g,i	3	0	0	3
18GE0E2	ENTREPRENEURSHIP DEVELOPMENT II	II,III	f,g,i	3	0	0	3
ONE CREDIT COURSES							
18ME0XO	PRODUCT VALIDATION TECHNIQUES AND ENVIRONMENTAL TESTING	-	-	1	0	0	1
18ME0XP	8D PROBLEM SOLVING METHODOLOGY	I	a	1	0	0	1
18ME0XQ	ADVANCED PRODUCT QUALITY PLANNING	I	a	1	0	0	1
OPEN ELECTIVES							
18GE0C1	CORROSION SCIENCE AND ENGINEERING	I,II,III	a,b,g	3	0	0	3
18GE0C2	ENERGY STORING DEVICES	I,II	a,b	3	0	0	3
18GE0C3	POLYMER SCIENCE	I,II,III	a,b,c	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
18MC0YC	MICRO ELECTRO MECHANICAL SYSTEMS	-	-	3	0	0	3
18ME0YA	INDUSTRIAL PROCESS ENGINEERING	I,II,III	a,b,c,e,k,n	3	0	0	3
18ME0YB	SAFETY ENGINEERING	I,II,III	a,b,e,f,h,i,j,l,m,n,o	3	0	0	3
18ME0YC	MAINTENANCE ENGINEERING	I,II,III	a,b,c,e,f,g,n	3	0	0	3
18ME0YD	BASICS OF NON-DESTRUCTIVE TESTING	I,II,III	a,b,c,d,g,n	3	0	0	3
18ME0YE	DIGITAL MANUFACTURING	I,II,III	a,b,c,e,m,n	3	0	0	3
18ME0YF	WORK STUDY AND ERGONOMICS	I,II,III	a,b,c,e,f,h,k,m	3	0	0	3
18ME0YG	METROLOGY IN INDUSTRY	I,II,III	a,b,e,l,n	3	0	0	3
18ME0YH	PLANT LAYOUT AND MATERIAL HANDLING	I,II,III	a,b,c,d,f,m,n	3	0	0	3
18ME0YI	CONCEPTS OF ENGINEERING DESIGN	I,II,III	b,c,e,g,m,n	3	0	0	3
18ME0YL	LEAN SIX SIGMA	I,II,III	a,c,d,e,i,k,n	3	0	0	3
18ME0YM	HEATING VENTILATION AND AIRCONDITIONING	I,II,III	a,b,c,e,f,g,o	3	0	0	3
ADDITIONAL ONE CREDIT COURSE							
18GE0XA	ETYMOLOGY	-	-	1	0	0	1
18GE0XB	GENERAL PSYCHOLOGY	-	-	1	0	0	1
18GE0XC	NEURO BEHAVIORAL SCIENCE	II,III	i	1	0	0	1
18GE0XD	VISUAL MEDIA AND FILM MAKING	I,II,III	b,f	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
18GE0XH	CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING	-	-	1	0	0	1
18GE0XI	BLOG WRITING	I,III	f,h,j	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	II,III	g,i	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	II,III	i	1	0	0	1
DISCIPLINE ELECTIVES							
18ME005	ADVANCED STRENGTH OF MATERIALS	I,II,III	a,c,d,e,f,m	3	0	0	3
18ME009	COMPOSITE MATERIALS	I,II,III	a,b,l,n	3	0	0	3
ONE CREDIT COURSES							
18ME0XA	GEOMETRIC DIMENSIONING AND TOLERANCING	I	a	1	0	0	1
18ME0XB	LEAN MANUFACTURING	-	-	1	0	0	1
18ME0XC	PIPING ENGINEERING	-	-	1	0	0	1
18ME0XD	PROBLEM SOLVING TECHNIQUES	-	-	1	0	0	1
18ME0XE	AUTOMOTIVE EXHAUST SYSTEM	-	-	1	0	0	1

18ME0XF	CONTINUOUS IMPROVEMENT	-	-	1	0	0	1
18ME0XG	INDIAN PATENT LAW	-	-	1	0	0	1
18ME0XH	RAILWAY TRACK TECHNOLOGY	-	-	1	0	0	1
18ME0XI	GLASS ENGINEERING	-	-	1	0	0	1
18ME0XJ	PLASTICS-DESIGN,PROCESSING,TOOLING,ASSEMBLY AND TESTING	-	-	1	0	0	1
18ME0XK	5S-INTRODUCTION AND IMPLEMENTATION	-	-	1	0	0	1
18ME0XL	ENERGY AUDITING AND INSTRUMENTS	-	-	1	0	0	1
18ME0XM	INDUSTRIAL CONTROL VALVES	-	-	1	0	0	1
18ME0XN	INDUSTRIAL GEAR BOX DESIGN	-	-	1	0	0	1
OPEN ELECTIVES							
18ME0YJ	OIL HYDRAULICS AND PNEUMATICS	I,II,III	a,b,c,e,m	3	0	0	3
18ME0YK	ENERGY AUDITING AND MANAGEMENT	I,II,III	a,b,f,g,k,l,m,o	3	0	0	3
LANGUAGE ELECTIVES							
18HS201	COMMUNICATIVE ENGLISH II	I,II,III	i,j	1	0	2	2
OPEN ELECTIVES							
18AE0YA	NON-DESTRUCTIVE TESTING	I,II	a,b	3	0	0	3
18AE0YB	SMART MATERIALS	-	-	3	0	0	3
18AE0YC	FUNDAMENTALS OF AIRCRAFT ENGINEERING	-	-	3	0	0	3
18AG0YA	ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY	-	-	3	0	0	3
18AG0YB	HUMAN ENGINEERING AND SAFETY IN AGRICULTURE	-	-	3	0	0	3
18AG0YC	ENERGY MANGEMENT IN AGRICULTURE	-	-	3	0	0	3
18AG0YD	FARM MECHANISATION	-	-	3	0	0	3
18AU0YA	AUTOMOTIVE ENGINEERING	-	-	3	0	0	3
18AU0YB	VEHICLE CONTROL SYSTEMS	-	-	3	0	0	3
18AU0YC	PUBLIC TRANSPORT MANAGEMENT	-	-	3	0	0	3
18AU0YD	TECHNOLOGIES FOR GREEN MOBILITY	-	-	3	0	0	3
18AU0YE	TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES	-	-	3	0	0	3
18BT0YA	BIOFUELS	-	-	3	0	0	3
18BT0YB	MUSHROOM CULTIVATION AND VERMICOMPOSTING	-	-	3	0	0	3
18BT0YC	FORENSIC TECHNOLOGY	-	-	3	0	0	3
18CE0YA	GREEN BUILDINGS	-	-	3	0	0	3
18CE0YB	DISASTER PREPAREDNESS AND PLANNING	-	-	3	0	0	3
18CE0YC	ENVIRONMENTAL IMPACT ASSESSMENT	-	-	3	0	0	3
18CE0YD	BUILDING SERVICES	-	-	3	0	0	3
18CE0YE	INDUSTRIAL WASTE MANAGEMENT	-	-	3	0	0	3
18CE0YF	WEALTH FROM WASTE	-	-	3	0	0	3
18CE0YG	RISK AND SAFETY MANAGEMENT	-	-	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
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	-	-	3	0	0	3
18EC0YC	PCB DESIGN AND PROTOTYPING	-	-	3	0	0	3
18EC0YD	MICROCONTROLLER PROGRAMMING	-	-	3	0	0	3
18EC0YE	ENGINEERING COMPUTATION WITH MATLAB	-	-	3	0	0	3
18EC0YF	BASICS OF HARDWARE DESCRIPTION LANGUAGES	-	-	3	0	0	3
18EC0YG	FUNDAMENTALS OF EMBEDDED SYSTEMS	-	-	3	0	0	3
18EC0YH	PRINCIPLES OF COMMUNICATION SYSTEMS	-	-	3	0	0	3
18EC0YI	ELECTRONIC PRODUCT DESIGN AND PACKAGING	-	-	3	0	0	3
18EC0YJ	PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS	-	-	3	0	0	3
18EE0YA	ENERGY CONSERVATION AND MANAGEMENT	-	-	3	0	0	3
18EE0YB	ELECTRICAL SAFETY	-	-	3	0	0	3
18EE0YC	INDUSTRIAL DRIVES AND CONTROL	-	-	3	0	0	3
18EI0YA	PROGRAMMABLE LOGIC CONTROLLERS	-	-	3	0	0	3
18EI0YB	SENSOR TECHNOLOGY	-	-	3	0	0	3
18EI0YC	FUNDAMENTALS OF VIRTUAL INSTRUMENTATION	-	-	3	0	0	3
18EI0YD	OPTOELECTRONICS AND LASER INSTRUMENTATION	-	-	3	0	0	3

18FD0YA	TRADITIONAL FOODS	-	-	3	0	0	3
18FD0YB	FOOD LAWS AND REGULATIONS	-	-	3	0	0	3
18FD0YC	POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES	-	-	3	0	0	3
18FT0YA	FASHION CRAFTS	-	-	3	0	0	3
18FT0YB	FASHION ACCESSORIES	-	-	3	0	0	3
18FT0YC	FASHION VISUAL MERCHANDISING	-	-	3	0	0	3
18FT0YD	INTERIOR DESIGN	-	-	3	0	0	3
18FT0YE	SURFACE EMBELLISHMENT	-	-	3	0	0	3
18GE01	BUSINESS ANALYTICS	-	-	3	0	0	3
18GE02	INDUSTRIAL SAFETY	II,III	f,g,i	3	0	0	3
18GE03	OPERATIONS RESEARCH	-	-	3	0	0	3
18GE04	COST MANAGEMENT OF ENGINEERING PROJECTS	-	-	3	0	0	3
18GE05	COMPOSITE MATERIALS	-	-	3	0	0	3
18GE06	WASTE TO ENERGY	-	-	3	0	0	3
18IT0YA	DATABASE MANAGEMENT SYSTEMS	-	-	3	0	0	3
18IT0YB	DATA STRUCTURES AND ALGORITHMS	-	-	3	0	0	3
18IT0YC	DATA SCIENCES AND ANALYTICS	-	-	3	0	0	3
18IT0YD	OBJECT ORIENTED PROGRAMMING	-	-	3	0	0	3
18IT0YE	ARTIFICIAL INTELLIGENCE	-	-	3	0	0	3
18TT0YA	YARN AND FABRIC MANUFACTURE	-	-	3	0	0	3
18TT0YB	COLOURATION OF TEXTILES	-	-	3	0	0	3
18TT0YC	TEXTILES IN ENGINEERING APPLICATION	-	-	3	0	0	3
18TT0YD	GENERAL TEXTILE TECHNOLOGY	-	-	3	0	0	3