

B.E. CIVIL ENGINEERING
Minimum Credits to be Earned 171.0

First Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18CE101	ENGINEERING MATHEMATICS I	I,II,III	a,b	3	1	0	4
18CE102	ENGINEERING PHYSICS I	I,II,III	a,b,i	2	0	2	3
18CE103	ENGINEERING CHEMISTRY I	I,II,III	a,b,m,n	2	0	2	3
18CE104	BASICS OF ELECTRICAL ENGINEERING	I,II,III	a,b,d	2	0	2	3
18HS101	COMMUNICATIVE ENGLISH I	I,II,III	b,i,j	1	0	2	2
18CE105	ENGINEERING DRAWING	I,II,III	a,i,j,m,n	1	0	4	3
Total				11	1	12	18.0

Second Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18CE201	ENGINEERING MATHEMATICS II	I,II,III	a,b	3	1	0	4
18CE202	ENGINEERING PHYSICS II	I,II,III	a,b,i	2	0	2	3
18CE203	ENGINEERING CHEMISTRY II	I,II,III	a,b,m,n	2	0	2	3
18CE204	ENGINEERING MECHANICS	I,II,III	a,b,c	3	0	0	3
18CE205	FUNDAMENTALS OF CIVIL ENGINEERING	I,II,III	a,c,d,e,m,n	2	0	2	3
	LANGUAGE ELECTIVE	-	-	-	-	-	2
18CE206	ENGINEERING PRACTICES LABORATORY	I,II,III	a	0	0	4	2
Total				12	1	10	20.0

Third Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18CE301	ENGINEERING MATHEMATICS III	I,II,III	a,b	3	1	0	4
18CE302	MECHANICS OF DEFORMABLE BODIES	I,II,III	a,b	3	1	0	4
18CE303	APPLIED GEOLOGY	I,II,III	a,b,c,d,e	3	0	0	3
18CE304	SURVEY AND GEOMATICS	I,II,III	a,b,d,e,m,n	3	0	0	3
18CE305	FLUID MECHANICS AND MACHINERIES	I,II,III	a,b,c,e	3	0	2	4
18CE306	COMPUTER PROGRAMMING	I,II,III	a,e,i,l	2	0	2	3
18CE307	COMPUTER AIDED BUILDING DRAWING LABORATORY	I,II,III	a,e,h,i,l,m	0	0	4	2
18CE308	SURVEY LABORATORY	I,II,III	a,b,c,d,e	0	0	4	2
18GE301	SOFT SKILLS - VERBAL ABILITY	-	-	2	0	0	0
Total				19	2	12	25.0

Fourth Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18HS001	ENVIRONMENTAL SCIENCE	I,II,III	a,b	2	0	0	0
18CE401	CONCRETE TECHNOLOGY	I,II,III	a,b,c,e,m,n	3	0	0	3
18CE402	DESIGN OF RCC ELEMENTS	I,II,III	a,b,c,n	3	0	0	3
18CE403	STRUCTURAL ANALYSIS I	I,II,III	b,m	3	1	0	4
18CE404	SOIL MECHANICS	I,II,III	a,b,c,d,m,n	3	0	0	3
18CE405	WATER RESOURCES ENGINEERING	I,II,III	a,b,c,m,n	3	0	0	3
18CE406	CONSTRUCTION TECHNIQUES AND EQUIPMENTS	I,II,III	a,b,c,f,k,m,n	3	0	0	3
18CE407	STRENGTH OF MATERIALS LABORATORY	I,II,III	a,b,c,d,e,f	0	0	4	2
18CE408	GEOTECHNICAL ENGINEERING LABORATORY	I,II,III	a,b,c,d,m,n	0	0	4	2
18GE401	SOFT SKILLS-REASONING	-	-	2	0	0	0
Total				22	1	8	23.0

Fifth Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18CE501	STRUCTURAL ANALYSIS II	I,II,III	a,b,c,m	3	1	0	4
18CE502	DESIGN OF RCC STRUCTURES	I,II,III	a,b,c,m,n	3	0	0	3
18CE503	FOUNDATION ENGINEERING	I,II,III	a,b,c,d,f,m	3	0	0	3
18CE504	IRRIGATION ENGINEERING	I,II,III	a,b,c,g,m,n	3	0	2	4
	PROFESSIONAL ELECTIVE I	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE II	-	-	-	-	-	3
18CE507	CONCRETE AND STRUCTURAL ANALYSIS LABORATORY	I,II,III	a,d,e,f,m	0	0	4	2
18CE508	COMPUTER AIDED DESIGN AND DRAWING LABORATORY	I,II,III	a,b,c	0	0	4	2
18GE501	SOFT SKILLS - APTITUDE I	-	-	0	0	2	0
Total				12	1	12	24.0

Sixth Semester

Code No.	Course	Objectives & Outcomes	L	T	P	C
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		Objectives & Outcomes					
		PEOs	POs				
18HS002	PROFESSIONAL ETHICS IN ENGINEERING	-	-	2	0	0	2
18CE603	ESTIMATION COSTING AND QUANTITY SURVEYING	I,II,III	a,b,c,d,e,f,h,m	3	0	0	3
18CE604	WATER SUPPLY AND WASTE WATER ENGINEERING	I,II,III	a,b,c,m,n	3	0	0	3
	PROFESSIONAL ELECTIVE III	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE IV	-	-	-	-	-	3
18CE607	COMPUTER AIDED PLANNING AND MANAGEMENT LABORATORY	I,II,III	a,b,d,k,m,n	0	0	4	2
18CE602	DESIGN OF STEEL STRUCTURES	I,II,III	a,b,c,m,n	3	0	0	3
18GE601	SOFT SKILLS-APTITUDE II	-	-	0	0	2	0
18CE608	ENVIRONMENTAL ENGINEERING LABORATORY	I,II,III	a,b,c,d,j,m,n	0	0	4	2
Total				11	0	10	21.0
Seventh Semester							
Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
18HS003	PRINCIPLES OF MANAGEMENT	I,II,III	a,b,c,d,e,i,n	2	0	0	2
18CE702	HIGHWAY AND RAILWAY ENGINEERING	I,II,III	a,b,c,m,n	3	0	0	3
18CE703	STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING	I,II,III	a,b,c,d,e,f,m,n	3	0	0	3
18CE704	PRESTRESSED CONCRETE STRUCTURES	I,II,III	a,b,c,m,n	3	0	0	3
	PROFESSIONAL ELECTIVE V	-	-	-	-	-	3
	PROFESSIONAL ELECTIVE VI	-	-	-	-	-	3
18CE707	TRANSPORTATION ENGINEERING LABORATORY	I,II,III	a,b,c,d,m,n	0	0	4	2
18CE708	PROJECT WORK I	I,II,III	a,b,c,d,e,f,g,h,i,k,l	0	0	6	3
Total				11	0	10	22.0
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
18CE804	PROJECT WORK II	I,II,III	a,b,c,d,e,f,g,h,i,k,l	0	0	18	9
Total				0	0	18	18.0
Electives							
Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
ONE CREDIT COURSES							
18CE0XK	CONCEPT AND PRACTICE OF REPAIR AND REHABILITATION OF CONCRETE STRUCTURES	-	-	1	0	0	1
18CE0XM	DESIGN AND DETAILING OF MULTISTORY BUILDINGS USING SOFTWARE ANALYSIS	-	-	1	0	0	1
18CE0XG	URBAN SANITATION	-	-	1	0	0	1
18CE0XH	NON-SEWERED SANITATION	-	-	1	0	0	1
18CE0XI	PRIMARY SECTORS IN CONSTRUCTION INDUSTRY	-	-	1	0	0	1
LANGUAGE ELECTIVES							
18HS201	COMMUNICATIVE ENGLISH II	I,II	i,j	1	0	2	2
18HSC01	CHINESE	-	-	1	0	2	2
18HSF01	FRENCH	I,II	j	1	0	2	2
18HSG01	GERMAN	-	-	1	0	2	2
18HSH01	HINDI	-	-	1	0	2	2
18HSJ01	JAPANESE	I,II	j	1	0	2	2
OPEN ELECTIVES							
18GE0P1	NANOMATERIALS SCIENCE	-	-	3	0	0	3
18GE0P2	SEMICONDUCTOR PHYSICS AND DEVICES	I,II,III	a,b	3	0	0	3
18GE0P4	BIO-PHOTONICS	I,II,III	a,b,i	3	0	0	3
18GE0P5	PHYSICS OF SOFT MATTER	I,II,III	a,b	3	0	0	3
18GE0C1	CORROSION SCIENCE AND ENGINEERING	I,II,III	a,b,g	3	0	0	3
18GE0C2	ENERGY STORING DEVICES	I,II,III	a,b,g	3	0	0	3
18GE0C3	POLYMER SCIENCE	I,II,III	a,b,c	3	0	0	3
18GE0P3	APPLIED LASER SCIENCE	I,II,III	a,b	3	0	0	3
DISCIPLINE ELECTIVES							
18CE001	CONCEPTUAL PLANNING AND BYE LAWS	I,II,III	a,b,c,e,n	3	0	0	3
18CE002	TOTAL STATION AND GPS SURVEYING	I,II,III	a,b,c,d,e	3	0	0	3
18CE003	APPLICATIONS OF NUMERICAL METHODS IN CIVIL ENGINEERING	I,II,III	a,b,c,e,m	3	0	0	3
18CE004	OPEN CHANNEL FLOW	I,II,III	a,b,c	3	0	0	3

18CE005	BUILDING SERVICES	I,II,III	a,b,c,m	3	0	0	3
18CE006	DESIGN OF TIMBER AND MASONRY ELEMENTS	I,II,III	a,b,c,g,m,n	3	0	0	3
18CE007	REMOTE SENSING AND GIS	I,II,III	a,b,c,e	3	0	0	3
18CE008	AIR POLLUTION CONTROL AND MANAGEMENT	I,II,III	a,b,c,m,n	3	0	0	3
18CE009	REPAIR AND REHABILITATION OF STRUCTURES	I,II,III	c,e,f,g,m,n	3	0	0	3
18CE010	TOTAL QUALITY MANAGEMENT	I,II,III	a,b,d,e	3	0	0	3
18CE011	MUNICIPAL SOLID WASTE MANAGEMENT	I,II,III	a,b,g,m,n	3	0	0	3
18CE012	GROUND IMPROVEMENT TECHNIQUES	I,II,III	a,b,c,d,g,m,n	3	0	0	3
18CE013	ARCHITECTURE AND URBAN PLANNING	I,II,III	a,b,c,f,g	3	0	0	3
18CE014	ENVIRONMENTAL IMPACT ASSESSMENT	I,II,III	a,b,d,f,g,m,n	3	0	0	3
18CE015	BRIDGE ENGINEERING	I,II,III	a,b,d,e,f	3	0	0	3
18CE016	INSTRUMENTATION AND SENSOR TECHNOLOGIES FOR CIVIL ENGINEERING	I,II,III	a,b,c,m	3	0	0	3
18CE017	ADVANCED RC DESIGN	I,II,III	a,b,c,d,e,m,n	3	0	0	3
18CE018	TALL STRUCTURES	I,II,III	a	3	0	0	3
18CE019	COST EFFECTIVE CONSTRUCTION AND GREEN BUILDING	I,II,III	a,b,g,m,n	3	0	0	3
18CE020	COASTAL ENGINEERING	I,II,III	a,b,c,f,m,n	3	0	0	3
18CE021	ADVANCED STEEL DESIGN	I,II,III	a,b,c,d,e	3	0	0	3
18CE022	GEOENVIRONMENTAL ENGINEERING	I,II,III	a,b,c,f,m	3	0	0	3
18CE023	AIRPORT, DOCKS AND HARBOUR ENGINEERING	I,II,III	a,b,c,k,m,n	3	0	0	3
18CE024	ENERGY SCIENCE AND ENGINEERING	I,II,III	a,f,g	3	0	0	3
18CE025	MASS TRANSPORTATION SYSTEMS	I,II,III	a,b,c,m,n	3	0	0	3
18CE026	STRUCTURAL HEALTH MONITORING	I,II,III	a,b,c,m,n	3	0	0	3
18CE027	INDUSTRIAL WASTE MANAGEMENT	I,II,III	a,b,c,m,n	3	0	0	3
18CE028	INTRODUCTION TO GEOTECHNICAL EARTHQUAKE ENGINEERING	I,II,III	a,b,d,e,f	3	0	0	3
18CE029	PREFABRICATED STRUCTURES	I,II,III	a,b,c,d,e	3	0	0	3
18CE030	REINFORCED SOIL STRUCTURES	I,II,III	a,b,c,f,g,m	3	0	0	3
18CE031	TRAFFIC ENGINEERING AND MANAGEMENT	I,II,III	a,b,c,d,n	3	0	0	3
18CE032	FINITE ELEMENT ANALYSIS	I,II,III	a,b,c,m,n	3	0	0	3
18CE033	DESIGN OF INDUSTRIAL STRUCTURES	I,II,III	a,b,c,d,n	3	0	0	3
18CE034	ROCK MECHANICS AND APPLICATIONS	I,II,III	a,b,d	3	0	0	3
18CE035	TRANSPORTATION PLANNING AND SYSTEMS	I,II,III	a,b,c,d,m,n	3	0	0	3
18CE036	DISASTER PREPAREDNESS AND PLANNING	I,II,III	b,f,g,m	3	0	0	3
OPEN ELECTIVES							
18CE0YA	GREEN BUILDINGS	I,II,III	a,b,c,d,e,m,n	3	0	0	3
18CE0YB	DISASTER PREPAREDNESS AND PLANNING	I,II,III	b,f,g,m	3	0	0	3
18CE0YC	ENVIRONMENTAL IMPACT ASSESSMENT	I,II,III	a,b,c,e,f,g,h,i,n	3	0	0	3
18CE0YD	BUILDING SERVICES	I,II,III	a,b,c,m	3	0	0	3
18CE0YE	INDUSTRIAL WASTE MANAGEMENT	I,II,III	a,b,c,m,n	3	0	0	3
18CE0YF	WEALTH FROM WASTE	I,II,III	a,b,c,e,f,m,n	3	0	0	3
18CE0YG	RISK AND SAFETY MANAGEMENT	I,II,III	a,b,e,f,m,n	3	0	0	3
18CE0YH	ENERGY SCIENCE AND ENGINEERING	I,II,III	a,f,g	3	0	0	3
18CE0YI	CONCEPTS OF REMOTE SENSING	I,II,III	a,b,c,e	3	0	0	3
ONE CREDIT COURSES							
18CE0XA	ENVIRONMENTAL CONSERVATION IN RIVER BASINS FOR SUSTAINABLE DEVELOPMENT	I,II,III	a,d	1	0	0	1
18CE0XB	CONSTRUCTION CHEMICALS IN CONSTRUCTION INDUSTRY-SIGNIFICANCE	I,II,III	b,m	1	0	0	1
18CE0XC	INTEGRATED WATERSHED DEVELOPMENT AND MANAGEMENT	I,II,III	a,m	1	0	0	1
18CE0XD	INDUSTRIAL APPROACH TO REAL TIME COMPLEX PROBLEMS	I,II,III	a,b,c,d,e,g,j,m,n	1	0	0	1
18CE0XE	ESTIMATION AND BAR BENDING SCHEDULE	I,II,III	a,b,m	1	0	0	1
18CE0XF	CONSTRUCTION PRACTICES AND MIX PROPORTIONING - PRACTICAL APPROACH	I,II,III	a,m	1	0	0	1
ADDITIONAL ONE CREDIT COURSE							
18GE0XA	ETYMOLOGY	-	-	1	0	0	1
18GE0XB	GENERAL PSYCHOLOGY	-	-	1	0	0	1
18GE0XC	NEURO BEHAVIORAL SCIENCE	I,II	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,II,III	f,g,j	1	0	0	1
18GE0XJ	INTERPERSONAL SKILLS	I,II	i	1	0	0	1
18GE0XK	NEW AGE INNOVATION AND ENTREPRENEURSHIP	I,II	i	1	0	0	1
18GE0XL	NATIONAL CADET CORPS	I,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	I,II	i	1	0	0	1
18GE0XQ	Introduction to MATLAB	I,II,III	a,b	1	0	0	1
OPEN ELECTIVES							
18AE0YA	NON-DESTRUCTIVE TESTING	-	-	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
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	-	-	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
18ME0YA	INDUSTRIAL PROCESS ENGINEERING	-	-	3	0	0	3
18ME0YB	SAFETY ENGINEERING	-	-	3	0	0	3

18ME0YC	MAINTENANCE ENGINEERING	-	-	3	0	0	3
18ME0YD	BASICS OF NON-DESTRUCTIVE TESTING	-	-	3	0	0	3
18ME0YE	DIGITAL MANUFACTURING	-	-	3	0	0	3
18ME0YF	WORK STUDY AND ERGONOMICS	-	-	3	0	0	3
18ME0YG	METROLOGY IN INDUSTRY	-	-	3	0	0	3
18ME0YH	PLANT LAYOUT AND MATERIAL HANDLING	-	-	3	0	0	3
18ME0YI	CONCEPTS OF ENGINEERING DESIGN	-	-	3	0	0	3
18ME0YJ	OIL HYDRAULICS AND PNEUMATICS	-	-	3	0	0	3
18ME0YK	ENERGY AUDITING AND MANAGEMENT	-	-	3	0	0	3
18ME0YL	LEAN SIX SIGMA	-	-	3	0	0	3
18ME0YM	HEATING VENTILATION AND AIRCONDITIONING	-	-	3	0	0	3
18TT0YA	YARN AND FABRIC MANUFACTURE	-	-	3	0	0	3
18TT0YB	COLOURATION OF TEXTILES	-	-	3	0	0	3
18TT0YC	TEXTILES IN ENGINEERING APPLICATION	-	-	3	0	0	3
18TT0YD	GENERAL TEXTILE TECHNOLOGY	-	-	3	0	0	3

