

DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI - 600 025
BOARD EXAMINATIONS :: OCTOBER 2025
DRAFT EQUIVALENCE OF PRACTICAL SUBJECTS (N/Z SCHEME TO R2023)

Course Code			Course Name							Page ##	
1010			CIVIL ENGINEERING (FULL TIME)							1	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4010350	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL - I	P	1010233440	BUILDING PLANNING AND DRAWING	1010	3	P	
3	6	0	4010360	MATERIAL TESTING LABORATORY - I	P	1010233640	MATERIAL TESTING LAB	1010	3	P	
3	7	0	4010370	SURVEYING PRACTICE - I	P	1010233340	SURVEYING PRACTICE	1010	3	P	
4	4	0	4010440	HYDRAULICS LABORATORY	P	1010233540	HYDRAULICS	1010	3	P	
4	5	0	4010450	MATERIAL TESTING LABORATORY – II	P	1010233640	MATERIAL TESTING LAB	1010	3	P	

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1010			CIVIL ENGINEERING (FULL TIME)							2	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4010460	CONSTRUCTION PRACTICE LABORATORY	P	1010234540	CONSTRUCTION PRACTICES	1010	4	P	
4	7	0	4010470	SURVEYING PRACTICE – II	P	1010233340	SURVEYING PRACTICE	1010	3	P	
5	4	0	4010540	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL II	P	*** NO EQUIVALENT ***					
5	5	0	4010550	ENVIRONMENTAL ENGINEERING LABORATORY	P	1010235540	ENVIRONMENTAL ENGINEERING	1010	5	P	
5	6	1	4010561	ADVANCED SURVEYING AND BASIC GIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	2	4010562	CONCRETE TECHNOLOGY PRACTICAL	P	1010234440	CONCRETE TECHNOLOGY	1010	4	P	
5	6	3	4010563	GEOTECHNICAL ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1010235654	INNOVATION AND STARTUP	1010	5	P	

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Course Code			Course Name							Page ##	
1012			ARCHITECTURAL ASSISTANTSHIP (FULL TIME)							3	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4012340	BUILDING CONSTRUCTION AND DETAILING - I	P	1012233740	BUILDING CONSTRUCTION AND DETAILING - I	1012	3	P	
3	5	0	4012350	ARCHITECTURAL DRAWING - I	P	AA232260	ARCHITECTURAL DRAWING - I	1012	2	P	
3	6	0	4012360	BASIC DESIGN	P	AA232440	BASIC DESIGN & VISUAL ARTS	1012	2	P	
3	7	0	4012370	COMPUTER APPLICATION IN ARCHITECTURE - I	P	1012233620	COMPUTER STUDIO-I	1012	3	P	
4	5	0	4012450	BUILDING CONSTRUCTION AND DETAILING II	P	1012234740	BUILDING CONSTRUCTION AND DETAILING-II	1012	4	P	

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1012			ARCHITECTURAL ASSISTANTSHIP (FULL TIME)							4	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4012460	ARCHITECTURAL DRAWING – II	P	1012233420	ARCHITECTURAL DRAWING-II	1012	3	P	
4	7	0	4012470	ARCHITECTURAL DESIGN STUDIO I	P	1012233520	ARCHITECTURAL DESIGN STUDIO-I	1012	3	P	
5	4	0	4012540	COMPUTER APPLICATION IN ARCHITECTURE	P	1012234520	COMPUTER STUDIO-II	1012	4	P	
5	5	0	4012550	ARCHITECTURAL DESIGN STUDIO II	P	1012234420	ARCHITECTURAL DESIGN STUDIO-II	1012	4	P	
5	6	1	4012562	ELEMENTS OF INTERIOR DESIGN PRACTICAL	P	1012236241	INTERIOR DESIGN AND DETAILING	1012	6	P	
5	6	2	4012561	ARCHITECTURAL MODEL MAKING	P	1012235641	ARCHITECTURAL MODEL MAKING	1012	5	P	
5	6	3	4012563	SURVEYING PRACTICE	P	*** NO EQUIVALENT ***					
5	6	4	4012561	ARCHITECTURAL MODEL MAKING	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1012235754	INNOVATION & STARTUP	1012	5	P	

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1013			CIVIL AND ENVIRONMENTAL ENGINEERING (FULL TIME)							5	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4013350	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL	P	1010233440	BUILDING PLANNING AND DRAWING	1013	3	P	
3	6	0	4013360	MATERIAL TESTING LABORATORY - I	P	1013233640	CONSTRUCTION MATERIALS AND TESTING LAB	1013	3	P	
3	7	0	4013370	SURVEYING PRACTICE - I	P	1010233340	SURVEYING PRACTICE	1013	3	P	
4	4	0	4013440	HYDRAULICS LABORATORY	P	1010233540	HYDRAULICS	1013	3	P	
4	5	0	4013450	MATERIAL TESTING LABORATORY - II	P	1013233640	CONSTRUCTION MATERIALS AND TESTING LAB	1013	3	P	

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1013			CIVIL AND ENVIRONMENTAL ENGINEERING (FULL TIME)							6	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4013460	CONSTRUCTION PRACTICE LABORATORY	P	1010234540	CONSTRUCTION PRACTICES	1013	4	P	
4	7	0	4013470	SURVEYING PRACTICE - II	P	1010233340	SURVEYING PRACTICE	1013	3	P	
5	4	0	4013540	ENVIRONMENTAL STRUCTURAL DRAWING IN CADD	P	*** NO EQUIVALENT ***					
5	5	0	4013550	ENVIRONMENTAL ENGINEERING LABORATORY	P	1013235540	ENVIRONMENTAL CHEMISTRY AND TESTING PRACTICES	1013	5	P	
5	6	1	4013561	HIGHWAY ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
5	6	2	4013562	GEOTECHHNICAL ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
5	6	3	4013563	ADVANCED SURVEYING AND BASIC GIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1010235654	INNOVATION AND STARTUP	1013	5	P	

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1020			MECHANICAL ENGINEERING (FULL TIME)							7	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	1020	3	P	
3	6	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1020233320	WORKSHOP PRACTICES	1020	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	1020	4	P	
4	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	6	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	*** NO EQUIVALENT ***					

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1020			MECHANICAL ENGINEERING (FULL TIME)							8	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1020	3	P	
5	4	0	4020540	PROCESS AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	1020	6	P	
5	5	0	4020550	THERMAL ENGINEERING PRACTICAL	P	1020234540	HEAT POWER ENGINEERING	1020	4	P	
5	6	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	1020	5	P	
5	6	2	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P	1020236248	GREEN ENERGY & ENGINEERING	1020	6	P	
5	6	3	4020563	MECHATRONICS PRACTICAL	P	1047233640	INTRODUCTION TO MECHATRONICS SYSTEMS	1047	3	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	1020	5	P	

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1021			AUTOMOBILE ENGINEERING (FULL TIME)							9	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4021350	MATERIAL TESTING AND FLUID MECHANICS & PNEUMATICS	P	1021233340	MECHANICS OF MATERIALS	1021	3	P	
3	6	0	4021360	PRODUCTION TECHNOLOGY PRACTICAL	P	1021234340	MANUFACTURING TECHNOLOGY II	1021	4	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	1021	4	P	
4	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1021233540	AUTOMOBILE ENGINEERING DRAWING	1021	3	P	
4	6	0	4021460	AUTOMOTIVE ELECTRICAL AND ELECTRONICS SYSTEMS PRACTICAL	P	1021233440	AUTOMOTIVE ELECTRICAL AND ELECTRONICS SYSTEMS	1021	3	P	

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4	7	0	4021470	AUTOMOTIVE ENGINES PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4021540	AUTOMOBILE SERVICING PRACTICAL	P	1021235440	AUTOMOBILE SERVICING PRACTICAL	1021	5	P	
5	5	0	4021550	ENGINE TESTING AND EMISSION MEASUREMENT PRACTICAL	P	1021235547	ENGINE TESTING	1021	5	P	
5	6	1	4021561	TWO WHEELER AND THREE WHEELER TECHNOLOGY PRACTICAL	P	1021235542	TWO-WHEELER AND THREE-WHEELER TECHNOLOGY	1021	5	P	
5	6	2	4021562	TRACTOR AND FARM EQUIPMENT PRACTICAL	P	1023235420	FARM TRACTOR PRACTICAL	1023	5	P	
5	6	3	4021563	INDUSTIRAL AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	1021	6	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1021235654	INNOVATION & STARTUP	1021	5	P	

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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4023340	PRINCIPLES OF CROP PRODUCTION PRACTICAL	P	1023233640	PRINCIPLES OF CROP PRODUCTION	1023	3	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1023233540	MACHINE DRAWING & CAD	1023	3	P	
3	6	0	4023360	SURVEYING AND LEVELLING PRACTICAL	P	1010233340	SURVEYING PRACTICE	1023	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4023450	MECHANICAL TESTING & FLUID POWER PRACTICAL	P	1023234520	FLUID MECHANICS PRACTICAL	1023	4	P	

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4	6	0	4023460	MACHINE SHOP – I PRACTICAL (LATHE AND WELDING)	P	1023234640	MACHINE SHOP PRACTICE	1023	4	P	
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1023	3	P	
5	5	0	4023550	TRACTOR AND ITS POWER UNITS PRACTICAL	P	1023235420	FARM TRACTOR PRACTICAL	1023	5	P	
5	6	0	4023560	MACHINE SHOP II PRACTICAL (GRINDING AND MILLING)	P	1023234640	MACHINE SHOP PRACTICE	1023	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1023235654	INNOVATION & STARTUP	1023	5	P	

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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	1025	3	P	
3	6	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1020233320	WORKSHOP PRACTICES	1025	3	P	
3	7	0	4025370	METROLOGY AND METALLOGRAPHY PRACTICAL	P	1025233640	METROLOGY AND METALLOGRAPHY	1025	3	P	
4	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	6	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	1025234320	METAL CUTTING AND CNC MACHINES	1025	4	P	

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4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1025	3	P	
5	4	0	4020540	PROCESS AUTOMATION PRACTICAL	P	1025234640	APPLIED HYDRAULICS AND PNEUMATICS	1025	4	P	
5	5	0	4025550	THERMAL ENGINEERING AND IC ENGINES PRACTICAL	P	1025234540	THERMAL ENGINEERING AND AUTOMOBILE TECHNOLOGY	1025	4	P	
5	6	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1025234320	METAL CUTTING AND CNC MACHINES	1025	4	P	
5	6	2	4025562	MECHANICAL INSTRUMENTATION PRACTICAL	P	1025234440	MECHANICAL INSTRUMENTATION	1025	4	P	
5	6	3	4020563	MECHATRONICS PRACTICAL	P	1025234640	APPLIED HYDRAULICS AND PNEUMATICS	1025	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	1025	5	P	

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1026			METALLURGY (FULL TIME)							15	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4026340	METALLOGRAPHY PRACTICAL	P	1026233640	METALLOGRAPHY PRACTICAL	1026	3	P	
3	5	0	4026350	FUELS TESTING AND METALLURGICAL ANALYSIS	P	1026233320	FUEL TESTING PRACTICAL	1026	3	P	
3	6	0	4026360	FOUNDRY PRACTICAL	P	1026233420	FOUNDRY PRACTICAL	1026	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4026450	CAD IN METALLURGY PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1026			METALLURGY (FULL TIME)							16	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4026460	HEAT TREATMENT PRACTICAL	P	1026234440	HEAT TREATMENT PRACTICAL	1026	4	P	
4	7	0	4026470	LATHE AND DRILLING PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4026540	METAL CASTING PRACTICAL	P	1026234640	METAL CASTING PRACTICAL	1026	4	P	
5	5	0	4026550	CNC MACHINES PRACTICAL	P	1020235541	CNC PROGRAMMING	1020	5	P	
5	6	1	4026561	METAL TESTING PRACTICAL	P	1026235541	METAL TESTING	1026	5	P	
5	6	2	4026562	CASTING DESIGN AND SIMULATION PRACTICAL	P	1026236222	CASTING DESIGN AND SIMULATION PRACTICAL	1026	6	P	
5	6	3	4023563	MINERAL DRESSING PRACTICAL	P	1026235542	MINERAL DRESSING PRACTICAL	1026	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1026235654	INNOVATION & START-UP	1026	5	P	

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Course Code			Course Name							Page ##	
1027			MARINE ENGINEERING (FULL TIME)							17	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4027340	MARINE STRENGTH OF MATERIALS PRACTICAL	P	1027233540	MARINE STRENGTH OF MATERIALS AND FLUID MECHANICS	1027	3	P	
3	5	0	4027350	MARINE FLUID MECHANICS PRACTICAL	P	1027233540	MARINE STRENGTH OF MATERIALS AND FLUID MECHANICS	1027	3	P	
3	6	0	4027360	SHIP CONSTRUCTION TECHNOLOGY PRACTICAL	P	1027233320	SHIP CONSTRUCTION TECHNOLOGY PRACTICAL - I	1027	3	P	
3	7	0	4027370	MARINE WORKSHOP TECHNOLOGY - I PRACTICAL	P	1027233640	MARINE WORKSHOP PRACTICE - I	1027	3	P	
4	5	0	4027450	MARINE WORKSHOP TECHNOLOGY II PRACTICAL	P	1027234640	MARINE WORKSHOP PRACTICE	1027	4	P	

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Course Code			Course Name							Page ##	
1027			MARINE ENGINEERING (FULL TIME)							18	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4027460	COMPUTER AIDED MARINE ENGINEERING DRAWING PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1027	3	P	
5	4	0	4027540	ELEMENTARY FIRST AID AND FIRE FIGHTING PRACTICAL	P	1027235440	FIRE FIGHTING	1027	5	P	
5	5	0	4027550	MARINE DIESEL ENGINE AND POWERPLANT PRACTICAL	P	1027234440	MARINE ENGINE MECHANISM	1027	4	P	
5	6	1	4027561	NAVIGATION AND METEOROLOGY PRACTICAL	P	1027235543	NAVIGATIONAL AND METEOROLOGICAL INSTRUMENTS	1027	5	P	
5	6	2	4027562	SEAMANSHIP AND LIFE SAVING APPLIANCES PRACTICAL	P	1027234540	SEAMANSHIP AND LIFE SAVING APPLIANCES	1027	4	P	
5	6	3	4027563	FISHING TECHNOLOGY PRACTICAL	P	1027236242	FISHINGTECHNOLOGY	1027	6	P	
5	7	0	4027570	MARINE ENTREPRENEURSHIP AND STARTUPS	P	1027235654	MARINE INNOVATION & STARTUP	1027	5	P	

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Course Code			Course Name							Page ##	
1030			ELECTRICAL AND ELECTRONICS ENGINEERING (FULL TIME)							19	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4030350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	1030233620	ELECTRICAL MACHINES I PRACTICAL	1030	3	P	
3	6	0	4030360	ELECTRICAL WORK SHOP PRACTICAL	P	1030234540	SERVICING OF ELECTRICAL APPLIANCES	1030	4	P	
3	7	0	4030370	WIRING AND WINDING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4030450	ELECTRICAL MACHINES AND INSTRUMENTATION PRACTICAL	P	1030234620	ELECTRICAL MACHINES II PRACTICAL	1030	4	P	

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1030			ELECTRICAL AND ELECTRONICS ENGINEERING (FULL TIME)							20	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1030233440	ANALOG AND DIGITAL ELECTRONICS	1030	3	P	
4	7	0	4030470	ELECTRICAL CIRCUITS AND SIMULATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	1	4030541	CONTROL OF ELECTRICAL MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	2	4030542	PROGRAMMABLE LOGIC CONTROLLER PRACTICAL	P	1030235440	PLC AND AUTOMATION	1030	5	P	
5	4	3	4030543	RENEWABLE ENERGY SOURCES PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4030550	COMPUTER AIDED ELECTRICAL DRAWING PRACTICAL	P	1030234440	ELECTRICAL CAD DESIGN	1030	4	P	
5	6	0	4040550	MICROCONTROLLER PRACTICAL	P	1030234340	MICROCONTROLLER AND EMBEDDED SYSTEMS	1030	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1030235654	INNOVATION AND START-UPS	1030	5	P	

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Course Code			Course Name							Page ##	
1040			ELECTRONICS AND COMMUNICATION ENGINEERING (FULL TIME)							21	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	1040233320	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	1040	3	P	
3	5	0	4040350	ELECTRICAL CIRCUITS AND INSTRUMENTATION PRACTICAL	P	1040233640	ELECTRICAL CIRCUITS AND MACHINES	1040	3	P	
3	6	0	4040360	PROGRAMMING IN C PRACTICAL	P	1040234540	PROGRAMMING IN C	1040	4	P	
3	7	0	4040370	SIMULATION PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4040440	INDUSTRIAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1040			ELECTRONICS AND COMMUNICATION ENGINEERING (FULL TIME)							22	
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4	6	0	4040450	COMMUNICATION ENGINEERING PRACTICAL	P	1040234340	BASICS OF COMMUNICATION ENGINEERING	1040	4	P	
4	7	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4040540	ANALOG AND DIGITAL COMMUNICATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4040550	MICROCONTROLLER PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	1	4040561	VERY LARGE SCALE INTEGRATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	2	4040562	CONSUMER ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	3	4040563	SIGNAL AND IMAGE PROCESSING PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1000235752		0	0		

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1042			INSTRUMENTATION AND CONTROL ENGINEERING (FULL TIME)							23	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4042340	ELECTRICAL ENGINEERING PRACTICAL	P	1042233440	CIRCUIT THEORY AND MACHINES	1042	3	P	
3	5	0	4042350	ELECTRONICS ENGINEERING PRACTICAL	P	1042233540	PRINCIPLES OF ELECTRONICS ENGINEERING	1042	3	P	
3	6	0	4042360	BASICS OF INSTRUMENTATION PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4042370	C PROGRAMMING PRACTICAL	P	1042233640	BASICS OF C PROGRAMMING	1042	3	P	
4	5	0	4042450	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1042234540	ANALOG AND DIGITAL ELECTRONICS	1042	4	P	

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Course Code			Course Name							Page ##	
1042			INSTRUMENTATION AND CONTROL ENGINEERING (FULL TIME)							24	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4042460	MEASUREMENT OF PROCESS VARIABLES PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4042470	VIRTUAL INSTRUMENTATION PRACTICAL	P	1042234440	VIRTUAL INSTRUMENTATION	1042	4	P	
5	4	0	4042540	PROCESS CONTROL INSTRUMENTATION PRACTICAL	P	1042235420	PROCESS CONTROL INSTRUMENTATION PRACTICAL	1042	5	P	
5	5	0	4042550	CONTROL ENGINEERING SIMULATION PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	1	4042561	MICROCONTROLLER PRACTICAL	P	1042234640	8051 MICROCONTROLLER	1042	4	P	
5	6	2	4042562	INDUSTRIAL INSTRUMENTATION PRACTICAL	P	1042235421	INDUSTRIAL INSTRUMENTATION PRACTICAL	1042	5	P	
5	6	3	4042563	INDUSTRIAL POWER ELECTRONICS PRACTICAL	P	1042235424	INDUSTRIAL POWER ELECTRONICS PRACTICAL	1042	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1042235654	INNOVATION & STARTUP	1042	5	P	

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1046			INFORMATION TECHNOLOGY (FULL TIME)							25	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4052340	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	1046233340	BASICS OF DIGITAL LOGIC DESIGN	1046	3	P	
3	5	0	4052350	LINUX PRACTICAL	P	1052233640	OPERATING SYSTEMS	1046	3	P	
3	6	0	4052360	C PROGRAMMING AND DATA STRUCTURE PRACTICAL	P	1052233440	C PROGRAMMING	1046	3	P	
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	1052234540	E-PUBLISHING TOOLS	1046	4	P	
4	5	0	4052450	WEB DESIGN AND PROGRAMMING PRACTICAL	P	1052233540	WEB DESIGNING	1046	3	P	

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1046			INFORMATION TECHNOLOGY (FULL TIME)							26	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4052460	JAVA PROGRAMMING PRACTCAL	P	1052234340	JAVA PROGRAMMING	1046	4	P	
4	7	0	4052470	RDBMS PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4046540	SYSTEM ADMINISTRATION AND NETWORK SERVICES PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4052540	PYTHON PROGRAMMING PRACTICAL	P	1052234440	PYTHON PROGRAMMING	1046	4	P	
5	6	1	4052561	COMPONENT BASED TECHNOLOGY PRACTICAL	P	1052235543	COMPONENT BASED TECHNOLOGIES	1046	5	P	
5	6	2	4052562	DATA ANALYTICS USING PYTHON PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	3	4046563	MOBILE APPLICATION DEVELOPMENT PRACTICAL	P	1052236245	MOBILEAPPLICATION DEVELOPMENT	1046	6	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1052235654	INNOVATION & STARTUP	1046	5	P	

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1047			MECHATRONICS ENGINEERING (FULL TIME)							27	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4047360	MANUFACTURING TECHNOLOGY PRACTICAL	P	1047233540	MANUFACTURING TECHNOLOGY	1047	3	P	
3	7	0	4047370	CAD PRACTICAL	P	1047233320	CAD FOR AUTOMATION	1047	3	P	
4	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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1047			MECHATRONICS ENGINEERING (FULL TIME)							28	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4047460	INDUSTRIAL INSTRUMENTATION AND SENSORS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4040550	MICROCONTROLLER PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4047540	INDUSTRIAL AUTOMATION PRACTICAL	P	1047234230	LOW COST AUTOMATION	1047	4	PT	
5	5	0	4047550	ROBOTICS PRACTICAL	P	1047235320	ROBOTICS PRACTICAL	1047	5	P	
5	6	1	4047564	C PROGRAMMING LANGUAGE PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	2	4047565	POWER ELECTRONICS AND DRIVES PRACTICAL	P	1047234540	INDUSTRIAL DRIVES AND CONTROL	1047	4	P	
5	6	3	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1047235654	INNOVATION AND START-UPS	1047	5	P	

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1049			ELECTRONICS (ROBOTICS) (FULL TIME)							29	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4047360	MANUFACTURING TECHNOLOGY PRACTICAL	P	1047233540	MANUFACTURING TECHNOLOGY	1049	3	P	
3	7	0	4047370	CAD PRACTICAL	P	1047233320	CAD FOR AUTOMATION	1049	3	P	
4	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1049			ELECTRONICS (ROBOTICS) (FULL TIME)							30	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4047460	INDUSTRIAL INSTRUMENTATION AND SENSORS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4040550	MICROCONTROLLER PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4047540	INDUSTRIAL AUTOMATION PRACTICAL	P	1047234230	LOW COST AUTOMATION	1049	4	PT	
5	5	0	4047550	ROBOTICS PRACTICAL	P	1047235320	ROBOTICS PRACTICAL	1049	5	P	
5	6	1	4047564	C PROGRAMMING LANGUAGE PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	2	4047565	POWER ELECTRONICS AND DRIVES PRACTICAL	P	1047234540	INDUSTRIAL DRIVES AND CONTROL	1049	4	P	
5	6	3	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1047235654	INNOVATION AND START-UPS	1049	5	P	

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Course Code			Course Name							Page ##	
1052			COMPUTER ENGINEERING (FULL TIME)							31	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4052340	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	1052233320	DIGITAL LOGIC DESIGN LAB	1052	3	P	
3	5	0	4052350	LINUX PRACTICAL	P	1052233640	OPERATING SYSTEMS	1052	3	P	
3	6	0	4052360	C PROGRAMMING AND DATA STRUCTURE PRACTICAL	P	1052233440	C PROGRAMMING	1052	3	P	
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	1052234540	E-PUBLISHING TOOLS	1052	4	P	
4	5	0	4052450	WEB DESIGN AND PROGRAMMING PRACTICAL	P	1052233540	WEB DESIGNING	1052	3	P	

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Course Code			Course Name							Page ##	
1052			COMPUTER ENGINEERING (FULL TIME)							32	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4052460	JAVA PROGRAMMING PRACTCAL	P	1052234340	JAVA PROGRAMMING	1052	4	P	
4	7	0	4052470	RDBMS PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4052540	PYTHON PROGRAMMING PRACTICAL	P	1052234440	PYTHON PROGRAMMING	1052	4	P	
5	5	0	4052550	CLOUD COMPUTING AND INTERNET OF THINGS PRACTICAL	P	1052235320	INTERNET OF THINGS & DIGITAL TWINS	1052	5	P	
5	6	1	4052561	COMPONENT BASED TECHNOLOGY PRACTICAL	P	1052235543	COMPONENT BASED TECHNOLOGIES	1052	5	P	
5	6	2	4052562	DATA ANALYTICS USING PYTHON PRACTICAL	P	1052235541	DATA ANALYTICS	1052	5	P	
5	6	3	4052563	MOBILE COMPUTING PRACTICAL	P	1052235542	MOBILECOMPUTING	1052	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1052235654	INNOVATION & STARTUP	1052	5	P	

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Course Code			Course Name							Page ##	
1053			COMPUTER NETWORKING (FULL TIME)							33	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
5	4	0	4053540	HARDWARE SERVICING PRACTICAL	P		*** NO EQUIVALENT ***				
5	5	0	4052550	CLOUD COMPUTING AND INTERNET OF THINGS PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	1	4053561	SYSTEM & NETWORK ADMINISTRATION PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	2	4052540	PYTHON PROGRAMMING PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	3	4052562	DATA ANALYTICS USING PYTHON PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1054			3D ANIMATION AND GRAPHICS (FULL TIME)							34	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	45428	ART AND FOUNDATION - I PRACTICAL	P	AN232460	ART & FOUNDATION - I PRACTICAL	1054	2	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4054340	ART AND FOUNDATION - II PRACTICAL	P	1054233340	ART & FOUNDATION- II	1054	3	P	
3	5	0	4054350	GRAPHIC DESIGNING PRACTICAL	P	1054233620	RASTER& VECTOR GRAPHICS LAB	1054	3	P	
3	6	0	4054360	DIGITAL PHOTOGRAPHY PRACTICAL	P	1054233520	DIGITAL PHOTOGRAPHY LAB	1054	3	P	
3	7	0	4054370	2D GRAPHICS AND ANIMATION PRACTICAL	P	1054233440	TRADITIONAL 2D ANIMATION	1054	3	P	
4	5	0	4054450	3D ANIMATION AND GRAPHICS PRACTICAL	P	1054234620	3D DESIGNING & ANIMATION	1054	4	P	

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Course Code			Course Name							Page ##	
1054			3D ANIMATION AND GRAPHICS (FULL TIME)							35	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4054460	2D DIGITAL ANIMATION PRACTICAL	P	1054234550	2D DIGITAL ANIMATION	1054	4	P	
4	7	0	4054470	WEB DESIGNING PRACTICAL	P	1054234340	UX DESIGNING AND E-PUBLISHING	1054	4	P	
5	4	0	4054540	3D MODELLING AND TEXTURING PRACTICAL	P	1054235320	3D MODELING& TEXTURING TECHNIQUES	1054	5	P	
5	5	0	4054550	3D RIGGING AND ANIMATION PRACTICAL	P	1054235420	3D RIGGING ANIMATION TECHNIQUES	1054	5	P	
5	6	0	4054560	3D LIGHTING AND RENDERING PRACTICAL	P	1054235520	3D LIGHTING RENDERING TECHNIQUES	1054	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1054235654	INNOVATION & STARTUP	1054	5	P	

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Course Code			Course Name							Page ##	
1055			COMMUNICATION AND COMPUTER NETWORKING (FULL TIME)							36	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4055340	ELECTRONIC DEVICES AND COMMUNICATION COMPONENTS	P	1055233540	ELECTRONICS DEVICES AND CIRCUITS	1055	3	P	
3	5	0	4055350	OPERATING SYSTEM AND NOS PRACTICAL	P	1052233640	OPERATING SYSTEMS	1055	3	P	
3	6	0	4040360	PROGRAMMING IN C PRACTICAL	P	1055233440	C PROGRAMMING AND DATA STRUCTURES	1055	3	P	
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1055233320	ANALOG AND DIGITAL ELECTRONICS LAB	1055	3	P	

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Course Code			Course Name							Page ##	
1055			COMMUNICATION AND COMPUTER NETWORKING (FULL TIME)							37	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4040450	COMMUNICATION ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
4	7	0	4052460	JAVA PROGRAMMING PRACTCAL	P	1052234340	JAVA PROGRAMMING	1055	4	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1055235640	INNOVATION & STARTUP	1055	5	T	
5	5	0	4040540	ANALOG AND DIGITAL COMMUNICATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	0	4055550	INTERNET OF THINGS PRACTICAL	P	1055235544	INTERNET OF THINGS	1055	5	P	
5	7	1	4040550	MICROCONTROLLER PRACTICAL	P	1055235543	MICROCONTROLLER AND ITS APPLICATIONS	1055	5	P	
5	7	2	4052540	PYTHON PROGRAMMING PRACTICAL	P	1052234440	PYTHON PROGRAMMING	1055	4	P	
5	7	3	4052563	MOBILE COMPUTING PRACTICAL	P	1055235542	CELLULAR COMMUNICATION AND MOBILE COMPUTING PLATFORM	1055	5	P	

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Course Code			Course Name							Page ##	
1056			ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (FULL TIME)							38	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4052540	PYTHON PROGRAMMING PRACTICAL	P	1056233320	PROGRAMMING PARADIGMS WITH PYTHON	1056	3	P	
3	5	0	4052350	LINUX PRACTICAL	P	1052233640	OPERATING SYSTEMS	1056	3	P	
3	6	0	4056360	DATA STRUCTURES USING PYTHON PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4056450	R PROGRAMMING PRACTICAL	P	1056234340	R PROGRAMMING	1056	4	P	

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Course Code			Course Name							Page ##	
1056			ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (FULL TIME)							39	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4052460	JAVA PROGRAMMING PRACTCAL	P	1056233440	OOPS WITH JAVA	1056	3	P	
4	7	0	4052470	RDBMS PRACTICAL	P	1056233540	INTRODUCTION TO DATABASE CONCEPTS	1056	3	P	
5	4	0	4056540	ARTIFICIAL INTELLIGENCE I PRACTICAL	P	1056235320	ARTIFICIAL INTELLIGENCE LABORATORY	1056	5	P	
5	5	0	4056550	MACHINE LEARNING PRACTICAL	P	1056235440	FUNDAMENTALS OF MACHINE LEARNING	1056	5	P	
5	6	1	4052550	CLOUD COMPUTING AND INTERNET OF THINGS PRACTICAL	P	1056235542	CLOUD COMPUTING & IOT	1056	5	P	
5	6	2	4052562	DATA ANALYTICS USING PYTHON PRACTICAL	P	1052235541	DATA ANALYTICS	1051	5	P	
5	6	3	4052563	MOBILE COMPUTING PRACTICAL	P	1052235542	MOBILECOMPUTING	1046	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1056235654	INNOVATION & STARTUP	1056	5	P	

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Course Code			Course Name							Page ##	
1058			COMPUTER ENGINEERING AND IOT (FULL TIME)							40	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4058340	FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGINEERING	P	*** NO EQUIVALENT ***					
3	5	0	4052350	LINUX PRACTICAL	P	1052233640	OPERATING SYSTEMS	1058	3	P	
3	6	0	4052360	C PROGRAMMING AND DATA STRUCTURE PRACTICAL	P	1052233440	C PROGRAMMING	1058	3	P	
3	7	0	4058370	E-PUBLISHING AND MULTIMEDIA SYSTEM PRACTICAL	P	1058233320	E-PUBLISHING PRACTICAL	1058	3	P	
4	5	0	4058450	DIGITAL ELECTRONICS AND MICROCONTROLLERS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1058			COMPUTER ENGINEERING AND IOT (FULL TIME)							41	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4052460	JAVA PROGRAMMING PRACTCAL	P	1058234440	OBJECT ORIENTED PROGRAMMING IN JAVA	1058	4	P	
4	7	0	4052563	MOBILE COMPUTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4058540	PROGRAMMING IN PYTHON PRACTICAL	P	1058235541	PYTHON PROGRAMMING	1058	5	P	
5	5	0	4052653	DATA SCIENCE AND BIG DATA PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	0	4058560	IOT AND CLOUD COMPUTING PRACTICAL	P	1058235320	INTERNET OF THINGS PRACTICAL	1058	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1052235654	INNOVATION & STARTUP	1058	5	P	

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Course Code			Course Name							Page ##	
1060			TEXTILE TECHNOLOGY (FULL TIME)							42	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4060340	FIBRE IDENTIFICATION - PRACTICAL	P	1060233420	FIBRE IDENTIFICATION PRACTICAL	1060	3	P	
3	5	0	4060350	YARN MANUFACTURE - I PRACTICAL	P	1060233540	TECHNOLOGY OF SPINNING PROCESS - I	1060	3	P	
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	1060233640	TECHNOLOGY OF WEAVING PROCESS - I	1060	3	P	
3	7	0	4060370	QUALITY ANALYSIS IN SPINNING AND WEAVING PREPARATORY -	P	*** NO EQUIVALENT ***					
4	5	0	4060450	YARN MANUFACTURE – II PRACTICAL	P	1060234540	TECHNOLOGY OF SPINNING PROCESS-II	1060	4	P	

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Course Code			Course Name							Page ##	
1060			TEXTILE TECHNOLOGY (FULL TIME)							43	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4060460	FABRIC MANUFACTURE – II PRACTICAL	P	1060234640	TECHNOLOGY OF WEAVING PROCESS -II	1060	4	P	
4	7	0	4060470	FABRIC STRUCTURE PRACTICAL	P	1060234320	FABRIC STRUCTURE ANALYSIS	1060	4	P	
5	4	0	4060540	TEXTILE TESTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4060550	TEXTILE WET PROCESSING PRACTICAL	P	1060234420	TEXTILE CHEMICAL PROCESSING	1060	4	P	
5	6	0	4060560	ADVANCED FABRIC DESIGN ANALYSIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1061			TEXTILE PROCESSING (FULL TIME)							44	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4061340	FIBRE AND CHEMICAL ANALYSIS PRACTICAL	P	1061233420	FIBRE AND CHEMICAL ANALYSIS	1061	3	P	
3	5	0	4061350	PRETREATMENT FOR TEXTILE COLOURATION PRACTICAL	P	1061233520	CHEMICAL PREPARATORY PROCESSES FOR TEXTILES	1061	3	P	
3	6	0	4061360	DYEING OF NATURAL FIBRES PRACTICAL	P	1061233620	TECHNOLOGY OF NATURAL FIBRE DYEING	1061	3	P	
3	7	0	4061370	QUALITY ASSURANCE IN PRETREATMENT AND DYEING	P	1061234520	QUALITY ASSURANCE IN TEXTILE PROCESSING	1061	4	P	
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	1061234640	TEXTILE MANUFACTURING TECHNOLOGY	1061	4	P	

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Course Code			Course Name							Page ##	
1061			TEXTILE PROCESSING (FULL TIME)							45	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4061460	DYEING OF MANMADE FIBRES AND BLENDS PRACTICAL	P	1061234320	TECHNOLOGY OF MAN MADE FIBRES AND BLENDS DYEING	1061	4	P	
4	7	0	4061470	TECHNOLOGY OF TEXTILE FINISHING PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4060540	TEXTILE TESTING PRACTICAL	P	1061235320	PHYSICAL TESTING OF TEXTILES	1061	5	P	
5	5	0	4061550	TECHNOLOGY OF TEXTILE PRINTING PRACTICAL	P	1061234420	TEXTILE PRINTING TECHNIQUES	1061	4	P	
5	6	0	4061560	QUALITY ASSURANCE IN PRINTING AND FINISHING PRACTICAL	P	1061234520	QUALITY ASSURANCE IN TEXTILE PROCESSING	1061	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1061235654	INNOVATION & STARTUP	1061	5	P	

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Course Code			Course Name							Page ##	
1064			TEXTILE MARKETING AND MANAGEMENT (FULL TIME)							46	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4066340	FASHION DESIGNING PRACTICAL	P	1064233520	FASHION SKETCHING	1064	3	P	
3	5	0	4064350	TEXTILE MARKET DATABASE MANAGEMENT - PRACTICAL	P	1064233620	TEXTILE MARKET DATABASE MANAGEMENT	1064	3	P	
3	6	0	4064360	FIBRE ANALYSIS PRACTICAL	P	1064233420	IDENTIFICATION OF TEXTILE FIBRES	1064	3	P	
3	7	0	4066370	FASHION ACCESSORIES PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	1061234640	TEXTILE MANUFACTURING TECHNOLOGY	1064	4	P	

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Course Code			Course Name							Page ##	
1064			TEXTILE MARKETING AND MANAGEMENT (FULL TIME)							47	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4064460	TEXTILE ADVERTISEMENT TECHNOLOGY PRACTICAL	P	1064234320	TEXTILE ADVERTISEMENT TECHNOLOGY	1064	4	P	
4	7	0	4064470	TEXTILE QUALITY MANAGEMENT PRACTICAL	P	1064234420	STATISTICAL QUALITY CONTROL	1064	4	P	
5	4	0	4066540	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	P	1066235541	CHEMICAL PROCESSING AND TESTING OF TEXTILES	1066	5	P	
5	5	0	4064550	TEXTILE EXPORT PROCEDURE PRACTICAL	P	1064235210	TEXTILE EXPORT MARKETING	1064	5	T	
5	6	0	4064560	BASICS OF TEXTILE CONSTRUCTION AND FURNISHING PRACTICAL	P	1066234520	HOME TEXTILES	1064	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1064235654	INNOVATION & STARTUP	1064	5	P	

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Course Code			Course Name							Page ##	
1066			GARMENT TECHNOLOGY (FULL TIME)							48	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4066340	FASHION DESIGNING PRACTICAL	P	1066233520	FASHION ILLUSTRATION	1066	3	P	
3	5	0	4066350	EMBROIDERY PRACTICAL	P	1066233420	SURFACE ORNAMENTATION	1066	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1066233620	BASIC GARMENT CONSTRUCTION	1066	3	P	
3	7	0	4066370	FASHION ACCESSORIES PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4066450	PATTERN DRAFTING – I PRACTICAL	P	1066234640	GARMENT PATTERN DRAFTING I	1066	4	P	

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Course Code			Course Name							Page ##	
1066			GARMENT TECHNOLOGY (FULL TIME)							49	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4066460	GARMENT CONSTRUCTION – I PRACTICAL	P	1066234320	CHILDREN GARMENT CONSTRUCTION	1066	4	P	
4	7	0	4066470	HOME TEXTILES PRACTICAL	P	1066234520	HOME TEXTILES	1066	4	P	
5	4	0	4066540	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	P	1066235541	CHEMICAL PROCESSING AND TESTING OF TEXTILES	1066	5	P	
5	5	0	4066550	PATTERN DRAFTING - II PRACTICAL	P	1066235320	GARMENT PATTERN DRAFTING	1066	5	P	
5	6	0	4066560	GARMENT CONSTRUCTION - II PRACTICAL	P	1066235421	ADVANCED GARMENT CONSTRUCTION	1066	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1066235654	INNOVATION & STARTUP	1066	5	P	

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Course Code			Course Name							Page ##	
1068			TEXTILE TECHNOLOGY (KNITTING) (FULL TIME)							50	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4067340	KNIT STRUCTURES - I PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4066350	EMBROIDERY PRACTICAL	P	1068233420	FABRIC ORNAMENTATION	1068	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1068233640	FUNDAMENTALS OF APPAREL CONSTRUCTION	1068	3	P	
3	7	0	4067370	WOVEN GARMENT PATTERN DRAFTING PRACTICAL	P	1068233320	PATTERN DRAFTING & CONSTRUCTION OF KIDS AND	1068	3	P	
4	5	0	4067450	TEXTILE MANUFACTURING PROCESS PRACTICAL	P	1068234520	SPINNING AND WEAVING	1068	4	P	

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1068			TEXTILE TECHNOLOGY (KNITTING) (FULL TIME)							51	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4067460	KNIT STRUCTURES-II	P	1068234640	ADVANCED KNITTING TECHNOLOGY	1068	4	P	
4	7	0	4067470	KNITTED GARMENT PATTERN DRAFTING PRACTICAL	P	1068234320	PATTERN DRAFTING & CONSTRUCTION OF KID	1068	4	P	
5	4	0	4067540	TEXTILE TESTING PRACTICAL	P	1068235421	TEXTILE TESTING	1068	5	P	
5	5	0	4067550	TEXTILE WET PROCESSING PRACTICAL	P	1068235541	TEXTILE WET PROCESSING	1068	5	P	
5	6	0	4067560	WOVEN GARMENT CONSTRUCTION PRACTICAL	P	1068234420	PATTERN DRAFTING & CONSTRUCTION OF MEN	1068	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1068235654	INNOVATION & STARTUP	1068	5	P	

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Course Code			Course Name							Page ##	
1069			APPAREL TECHNOLOGY (FULL TIME)							52	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4066340	FASHION DESIGNING PRACTICAL	P	1066233520	FASHION ILLUSTRATION	1069	3	P	
3	5	0	4066350	EMBROIDERY PRACTICAL	P	1066233420	SURFACE ORNAMENTATION	1069	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1066233620	BASIC GARMENT CONSTRUCTION	1069	3	P	
3	7	0	4066370	FASHION ACCESSORIES PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4069450	PATTERN DRAFTING – I PRACTICAL	P	1066234640	GARMENT PATTERN DRAFTING I	1069	4	P	

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Course Code			Course Name							Page ##	
1069			APPAREL TECHNOLOGY (FULL TIME)							53	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4069460	GARMENT CONSTRUCTION – I PRACTICAL	P	1066234320	CHILDREN GARMENT CONSTRUCTION	1069	4	P	
4	7	0	4069470	HOME TEXTILES PRACTICAL	P	1066234520	HOME TEXTILES	1069	4	P	
5	4	0	4069540	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	P	1066235541	CHEMICAL PROCESSING AND TESTING OF TEXTILES	1069	5	P	
5	5	0	4069550	PATTERN DRAFTING	P	1066235320	GARMENT PATTERN DRAFTING	1069	5	P	
5	6	0	4069560	GARMENT CONSTRUCTION	P	1066235421	ADVANCED GARMENT CONSTRUCTION	1069	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1066235654	INNOVATION & STARTUP	1069	5	P	

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Course Code			Course Name							Page ##	
1070			CHEMICAL TECHNOLOGY (FULL TIME)							54	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4076350	TECHNICAL ANALYSIS PRACTICAL	P	1076233520	TECHNICAL ANALYSIS PRACTICAL	1070	3	P	
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	1076233640	GENERAL ENGINEERING*	1070	3	P	
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	1076233320	MOMENTUM TRANSFER PRACTICAL*	1070	3	P	
4	5	0	4076450	MECHANICAL OPERATIONS PRACTICAL	P	1076234520	MECHANICAL OPERATIONS PRACTICAL*	1070	4	P	
4	6	0	4076460	HEAT TRANSFER PRACTICAL	P	1076234420	HEAT TRANSFER PRACTICAL*	1070	4	P	

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1070			CHEMICAL TECHNOLOGY (FULL TIME)							55	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4076470	CHEMICAL TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1076235654	INNOVATION & START UP	1070	5	P	
5	5	0	4076550	CHEMICAL PROCESS SIMULATION PRACTICAL	P	1076235521	CHEMICAL PROCESS SIMULATION LAB	1070	5	P	
5	6	0	4076560	PROCESS INSTRUMENTATION & CONTROL PRACTICAL	P	1076234640	PROCESS INSTRUMENTATION AND CONTROL*	1070	4	P	
5	7	0	4076570	PETROLEUM TESTING PRACTICAL	P	1076235522	PETROLEUM TESTING LAB	1070	5	P	

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1074			SUGAR TECHNOLOGY (FULL TIME)							56	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4076350	TECHNICAL ANALYSIS PRACTICAL	P	1074233520	TECHNICAL ANALYSIS PRACTICAL	1074	3	P	
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	SU232460	BASIC ENGINEERING PRACTICAL FOR SUGAR INDUSTRY	1074	2	P	
3	7	0	4074370	SUGAR TECHNOLOGY PRACTICAL - I	P	1074233420	SUGAR TECHNOLOGY PRACTICAL-I	1074	3	P	
4	4	0	4074440	CHEMICAL CONTROL PRACTICAL	P	1074233620	CHEMICAL CONTROL PRACTICAL	1074	3	P	
4	5	0	4074450	FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					

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1074			SUGAR TECHNOLOGY (FULL TIME)							57	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4074460	SUGAR TECHNOLOGY PRACTICAL - II	P	1074234420	SUGAR TECHNOLOGY PRACTICAL-II	1074	4	P	
4	7	0	4074470	CAD PRACTICAL	P	1074234520	CAD PRACTICAL	1074	4	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1074235520	ENTREPRENEURSHIP AND STARTUPS	1074	5	P	
5	5	0	4074550	SUGAR TECHNOLOGY PRACTICAL III	P	1074235420	SUGAR TECHNOLOGY PRACTICAL - III	1074	5	P	
5	6	0	4074560	COMPUTER APPLICATIONS IN SUGAR INDUSTRY PRACTICAL	P	1074235620	COMPUTER APPLICATION IN SUGAR INDUSTRY PRACTICAL	1074	5	P	
5	7	0	4074570	PROCESS INSTRUMENTATION AND CONTROL PRACTICAL	P	1074235330	PROCESS INSTRUMENTATION AND CONTROL	1074	5	PT	

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1075			PETROCHEMICAL ENGINEERING (FULL TIME)							58	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4076350	TECHNICAL ANALYSIS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	1076233640	GENERAL ENGINEERING*	1075	3	P	
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	1076233320	MOMENTUM TRANSFER PRACTICAL*	1075	3	P	
4	5	0	4076450	MECHANICAL OPERATIONS PRACTICAL	P	1076234520	MECHANICAL OPERATIONS PRACTICAL*	1075	4	P	
4	6	0	4076460	HEAT TRANSFER PRACTICAL	P	1076234420	HEAT TRANSFER PRACTICAL*	1075	4	P	

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1075			PETROCHEMICAL ENGINEERING (FULL TIME)							59	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4075470	DISTILLATE TESTING PRACTICAL I	P	1075233520	DISTILLATE TESTING PRACTICAL	1075	3	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1075235654	INNOVATION & STARTUP	1075	5	P	
5	5	0	4076550	CHEMICAL PROCESS SIMULATION PRACTICAL	P	1076235521	CHEMICAL PROCESS SIMULATION LAB	1075	5	P	
5	6	0	4076560	PROCESS INSTRUMENTATION & CONTROL PRACTICAL	P	1076234640	PROCESS INSTRUMENTATION AND CONTROL*	1075	4	P	
5	7	0	4075570	DISTILATE TESTING PRACTICAL - II	P	1075233520	DISTILLATE TESTING PRACTICAL	1075	3	P	

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Course Code			Course Name							Page ##	
1076			CHEMICAL ENGINEERING (FULL TIME)							60	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4076350	TECHNICAL ANALYSIS PRACTICAL	P	1076233520	TECHNICAL ANALYSIS PRACTICAL	1076	3	P	
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	1076233640	GENERAL ENGINEERING*	1076	3	P	
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	1076233320	MOMENTUM TRANSFER PRACTICAL*	1076	3	P	
4	5	0	4076450	MECHANICAL OPERATIONS PRACTICAL	P	1076234520	MECHANICAL OPERATIONS PRACTICAL*	1076	4	P	
4	6	0	4076460	HEAT TRANSFER PRACTICAL	P	1076234420	HEAT TRANSFER PRACTICAL*	1076	4	P	

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1076			CHEMICAL ENGINEERING (FULL TIME)							61	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4076470	CHEMICAL TECHNOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1076235654	INNOVATION & START UP	1076	5	P	
5	5	0	4076550	CHEMICAL PROCESS SIMULATION PRACTICAL	P	1076235521	CHEMICAL PROCESS SIMULATION LAB	1076	5	P	
5	6	0	4076560	PROCESS INSTRUMENTATION & CONTROL PRACTICAL	P	1076234640	PROCESS INSTRUMENTATION AND CONTROL*	1076	4	P	
5	7	0	4076570	PETROLEUM TESTING PRACTICAL	P	1076235522	PETROLEUM TESTING LAB	1076	5	P	

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Course Code			Course Name							Page ##	
1078			FOOD PROCESSING AND PRESERVATION (FULL TIME)							62	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
3	4	0	4078340	FOOD CHEMISTRY PRACTICAL	P	1078233420	FOOD CHEMISTRY	1078	3	P	
3	5	0	4078350	FOOD MICROBIOLOGY PRACTICAL	P	1078233520	FOOD MICROBIOLOGY	1078	3	P	
3	6	0	4078360	FUNDAMENTALS OF NUTRITION PRACTICAL	P	1078233640	FUNDAMENTALS OF NUTRITION	1078	3	P	
3	7	0	4078370	FUNDAMENTALS OF FOOD SCIENCE PRACTICAL	P	1078233740	FUNDAMENTALS OF FOOD SCIENCE	1078	3	P	
4	5	0	4078450	FOOD PROCESSING TECHNOLOGY PRACTICAL	P	1078234520	FOOD PROCESSING TECHNOLOGY	1078	4	P	
4	6	0	4078460	FOOD ANALYSIS AND QUALITY CONTROL PRACTICAL	P	1078234620	FOOD ANALYSIS & QUALITY CONTROL	1078	4	P	
4	7	0	4078470	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	1078234740	ELECTRICAL AND ELECTRONIC ENGINEERING	1078	4	P	
5	5	0	4078550	FOOD PRESERVATION PRACTICAL	P	1078235520	FOOD PRESERVATION	1078	5	P	
5	6	1	4078561	DAIRY TECHNOLOGY PRACTICAL	P	1078235621	DAIRY TECHNOLOGY	1078	5	P	
5	6	2	4078562	BIOCHEMISTRY AND NUTRITION PRACTICAL	P	1078235622	BIO CHEMISTRY & NUTRITION	1078	5	P	

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Course Code			Course Name							Page ##	
1078			FOOD PROCESSING AND PRESERVATION (FULL TIME)							63	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
5	6	3	4078563	AGRO PROCESSING PRACTICAL	P	1078235623	AGRO PROCESSING	1078	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1078235740	ENTREPRENEURSHIP AND STARTUPS	1078	5	P	

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Course Code			Course Name							Page ##	
1079			PAPER TECHNOLOGY (FULL TIME)							64	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4079340	PULPING TECHNOLOGY PRACTICAL	P	1079233320	PULPING TECHNOLOGY PRACTICAL	1079	3	P	
3	5	0	4079350	FLUID MECHANICS PRACTICAL	P	1079233540	FLUID MECHANICS	1079	3	P	
3	6	0	4079360	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	1079233640	ELECTRICAL AND ELECTRONICS ENGINEERING	1079	3	P	
3	7	0	4079370	UNIT OPERATIONS PRACTICAL	P	1079233440	UNIT OPERATIONS	1079	3	P	
4	5	0	4079450	STOCK PREPERATION AND ALLIED CHEMICALS PRACTICAL	P	1079234320	ADVANCED PULPING PROCESSES	1079	4	P	

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1079			PAPER TECHNOLOGY (FULL TIME)							65	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4079460	CHEMICAL RECOVERY PRACTICAL	P	1079234640	CHEMICAL RECOVERY AND ANALYSIS PRACTICAL	1079	4	P	
4	7	0	4079470	CHEMICAL CAD PRACTICAL	P	1079234540	CHEMICAL CAD PRACTICAL	1079	4	P	
5	5	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1079235654	INNOVATION & STARTUP	1079	5	P	
5	6	0	4079560	PAPER TESTING PRACTICAL	P	1079235440	PAPER TESTING PRACTICAL	1079	5	P	
5	7	0	4079570	PROCESS INSTRUMENTATION AND CONTROL PRACTICAL	P	1079235542	PAPER MAKING CHEMISTRY	1079	5	P	

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1080			COMMERCIAL PRACTICE (FULL TIME)							66	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	7	0	48117	OFFICE AUTOMATION LAB - I	P	1080231720	OFFICE AUTOMATION LAB - I	1080	1	P	
2	5	0	48126	OFFICE AUTOMATION LAB II	P	1080232620	OFFICE AUTOMATION LAB - II	1080	2	P	
2	6	0	48127	COMMERCIAL PRACTICE LAB - I	P	1080232540	COMMERCIAL PRACTICES	1080	2	P	
2	7	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
5	6	0	4080560	COMPUTERIZED ACCOUNTING LAB II	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1081			MODERN OFFICE PRACTICE (FULL TIME)							67	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	7	0	48117	OFFICE AUTOMATION LAB - I	P	1080231720	OFFICE AUTOMATION LAB - I	1081	1	P	
2	5	0	48126	OFFICE AUTOMATION LAB II	P	1080232620	OFFICE AUTOMATION LAB - II	1081	2	P	
2	6	0	48127	COMMERCIAL PRACTICE LAB - I	P	1080232540	COMMERCIAL PRACTICES	1081	2	P	
2	7	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
5	6	0	4080560	COMPUTERIZED ACCOUNTING LAB II	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1082			OFFICE MANAGEMENT AND COMPUTER APPLICATIONS (FULL TIME)							68	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
5	6	0	4082560	COMPUTERISED ACCOUNTING LAB-II	P		*** NO EQUIVALENT ***				
5	7	0	4082570	ENTREPRENEURSHIP AND STARTUPS	P		*** NO EQUIVALENT ***				

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1091			AIRCRAFT MAINTENANCE ENGINEERING (AVIONICS)							69	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4092340	BASICS OF ELECTRONICS AND MICROPROCESSOR PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4092350	COMPONENTS OF AIRCRAFT STRUCTURES PRACTICAL	P	1091233420	COMPONENTS OF AIRCRAFT STRUCTURES PRACTICAL	1091	3	P	
3	6	0	4091360	PROGRAMMING LANGUAGE IN C AND C++ PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4092370	AERO MODELING PRACTICAL USING CAD	P	1091234520	AERO MODELING PRACTICAL USING CAD	1091	4	P	
4	5	0	4091450	AVIONICS SYSTEM – I PRACTICAL	P	1091233520	AVIONICS SYSTEM	1091	3	P	

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Course Code			Course Name							Page ##	
1091			AIRCRAFT MAINTENANCE ENGINEERING (AVIONICS)							70	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4092460	AIRCRAFT ELECTRICAL SYSTEMS PRACTICAL	P	1091234320	AIRCRAFT SYSTEM PRACTICAL	1091	4	P	
4	7	0	4091470	FLIGHT MECHANICS PRACTICAL	P	1091234640	FUNDAMENTALS OF CONTROL SYSTEMS	1091	4	P	
5	4	0	4091540	AVIONICS SYSTEM - II PRACTICAL	P	1091234420	AVIONICS SYSTEMS	1091	4	P	
5	5	0	4092560	HELICOPTER MODELING PRACTICAL	P	1091236241	HELICOPTER MODELING	1091	6	P	
5	6	0	4092540	AIRCRAFT SYSTEMS PRACTICAL	P	1091234320	AIRCRAFT SYSTEM PRACTICAL	1091	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1091235654	INNOVATION & STARTUP	1091	5	P	

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1092			AERONAUTICAL ENGINEERING							71	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4092340	BASICS OF ELECTRONICS AND MICROPROCESSOR PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4092350	COMPONENTS OF AIRCRAFT STRUCTURES PRACTICAL	P	1091233420	COMPONENTS OF AIRCRAFT STRUCTURES PRACTICAL	1092	3	P	
3	6	0	4092360	BASICS OF THERMODYNAMICS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4092370	AERO MODELING PRACTICAL USING CAD	P	1091234520	AERO MODELING PRACTICAL USING CAD	1092	4	P	
4	5	0	4092450	MATERIALS AND TESTING PROCESSES PRACTICAL	P	1092233520	MATERIAL AND TESTING PROCESSES PRACTICAL	1092	3	P	

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1092			AERONAUTICAL ENGINEERING							72	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4092460	AIRCRAFT ELECTRICAL SYSTEMS PRACTICAL	P	*** NO EQUIVALENT ***					
4	7	0	4092470	AERODYNAMICS PRACTICAL	P	1092233620	AERODYNAMICS PRACTICAL	1092	3	P	
5	4	0	4092540	AIRCRAFT SYSTEMS PRACTICAL	P	1091234320	AIRCRAFT SYSTEM PRACTICAL	1092	4	P	
5	5	0	4092550	AIRCRAFT ENGINE PROPULSION PRACTICAL	P	1092234420	AIRCRAFT ENGINE PROPULSION PRACTICAL	1092	4	P	
5	6	0	4092560	HELICOPTER MODELING PRACTICAL	P	1091236241	HELICOPTER MODELING	1092	6	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1092235654	INNOVATION & STARTUP	1092	5	P	

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1093			BIOMEDICAL ENGINEERING							73	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4141350	ANATOMY AND PHYSIOLOGY PRACTICAL	P	BM232460	ANATOMY PRACTICES	1093	2	P	
3	6	0	4093360	SENSORS AND MEASUREMENTS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4141370	MEDICAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4141450	MEASURING INSTRUMENTS PRACTICAL	P	1146233640	SENSORS AND SIGNAL CONDITIONING***	1093	3	P	

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1093			BIOMEDICAL ENGINEERING							74	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4141460	DIGITAL ELECTRONICS AND ITS CIRCUITS PRACTICAL	P	1040233420	DIGITAL ELECTRONICS PRACTICAL	1093	3	P	
4	7	0	4141470	BIOMEDICAL INSTRUMENTS PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4093540	BIOMECHANICS AND MEDICAL LABORATORY INSTRUMENTS	P	1093234340	MEDICAL LABORATORY INSTRUMENTS	1093	4	P	
5	5	0	4040550	MICROCONTROLLER PRACTICAL	P	1146234440	MICROCONTROLLER AND ITS APPLICATIONS***	1093	4	P	
5	6	1	4141534	PHYSIOTHERAPY AND OPERATION THEATRE EQUIPMENTS PRACTICAL	P	1141235540	MEDICAL EXPERT SYSTEMS	1141	5	P	
5	6	2	4040563	SIGNAL AND IMAGE PROCESSING PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	3	4093563	MEDICAL COMPUTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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1094			LOGISTICS TECHNOLOGY							75	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	6	0	4094360	BASIC ACCOUNTING	P	1094233640	BASIC ACCOUNTING	1094	3	P	
3	7	0	4094370	DOCUMENTATION PRACTICAL	P	1094233420	DOCUMENTATION IN LOGISTICS PRACTICAL	1094	3	P	
4	5	0	4094450	COLD CHAIN-LOGISTICS AND MAINTENANCE OF COLD STORAGES	P	1094234540	COLD CHAIN-LOGISTICS AND MAINTENANCE OF COLD STORAGES	1094	4	P	
4	6	0	4094460	LOGISTICS INFORMATICS PRACTICAL	P	1094234440	LOGISTICS INFORMATICS	1094	4	P	
4	7	0	4094470	MATERIAL HANDLING EQUIPMENT MAINTENANCE PRACTICAL	P	1094234320	MATERIAL HANDLING EQUIPMENTS AND MAINTENANCE PRACTICAL	1094	4	P	

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1094			LOGISTICS TECHNOLOGY							76	
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5	1	0	4094510	APPRENTICESHIP - ON THE JOB TRAINING	P	1094235351	INTERNSHIP	1094	5	P	
5	2	0	4094520	WAREHOUSING PRACTICAL	P	1094236120	WARE HOUSING PRACTICAL	1094	6	P	

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1121			MINING ENGINEERING (FULL TIME)							77	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4121340	MINING GEOLOGY PRACTICAL - I	P	*** NO EQUIVALENT ***					
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	1121	3	P	
3	6	0	4121360	MINE SUREYING PRACTICAL	P	1121234540	MINE SURVEYING	1121	4	P	
3	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1121	3	P	
4	5	0	4121450	MINING ENVIRONMENTAL PRACTICAL I	P	1121233640	MINING ENVIRONMENTAL ENGINEERING	1121	3	P	

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Course Code			Course Name							Page ##	
1121			MINING ENGINEERING (FULL TIME)							78	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4121460	MATERIALS AND MATTALURGY PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4121470	MINING MACHINERY PRACTICAL	P	1121234640	MINING MACHINERY & MECHANIZATION	1121	4	P	
5	4	0	4121540	MINING GEOLOGY PRACTICAL - II	P			0	0		
5	5	0	4121550	MINE HAZARD AND SAFETY PRACTICAL	P			0	0		
5	6	1	4121561	ROCK MECHANICS AND GROUND CONTROL PRACTICAL	P			0	0		
5	6	2	4121562	DRILLING AND BLASTING PRACTICAL	P			0	0		
5	6	3	4121563	MINERAL PROCESSING PRACTICAL	P			0	0		
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1121235654	INNOVATION & STARTUP	1121	5	P	

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Course Code			Course Name							Page ##	
1122			FIRE TECHNOLOGY AND SAFETY							79	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	42935	SAFETY ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	42936	FIRST AID PRACTICAL	P	1122233540	BASIC FIRST AID	1122	3	P	
3	7	0	42937	PERSONNEL PROTECTIVE EQUIPMENT PRACTICAL	P	1122233640	PERSONAL PROTECTIVE EQUIPMENT	1122	3	P	
4	5	0	42945	ELECTRICAL SAFETY PRACTICAL	P	1122234440	ELECTRICAL SAFETY	1122	4	P	
4	6	0	42946	FIRE SAFETY AND FIGHTING PRACTICAL	P	1122234540	FIRE SAFETY AND FIGHTING	1122	4	P	

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Course Code			Course Name							Page ##	
1122			FIRE TECHNOLOGY AND SAFETY							80	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	42947	INDUSTRIAL HYGIENE PRACTICAL	P	1122234640	INDUSTRIAL HYGIENE	1122	4	P	
5	4	0	42954	HAZARD IDENTIFICATION PRACTICAL	P	1122235340	HAZARD IDENTIFICATION AND RISK MANAGEMENT	1122	5	P	
5	5	0	42955	COMPUTER AIDED RISK ANALYSIS PRACTICAL	P	1122235541	COMPUTER AIDED RISK ANALYSIS	1122	5	P	
5	6	1	42974	MANUFACTURING SAFETY PRACTICAL	P	1122235440	MANUFACTURING SAFETY	1122	5	P	
5	6	2	42975	CHEMICAL SAFETY PRACTICAL	P	1122233340	CHEMICAL SAFETY	1122	3	P	
5	6	3	42976	ENVIRONMENTAL SAFETY PRACTICAL	P	1122234320	ENVIRONMENTAL HAZARD ASSESSMENT	1122	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1122235654	INNOVATION & STARTUP	1122	5	P	

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Course Code			Course Name							Page ##	
1123			MECHANICAL ENGINEERING (CAD)							81	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4123360	THERMAL ENGINEERING PRACTICAL	P	1123233640	THERMAL ENGINEERING	1123	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1123233440	MECHANICAL MEASUREMENTS AND METROLOGY	1123	3	P	
4	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1123233540	PRODUCTION DRAWING PRACTICES	1123	3	P	
4	6	0	4123460	MANUFACTURING TECHNOLOGY PRACTICAL	P	1123233320	MANUFACTURING TECHNOLOGY I PRACTICAL	1123	3	P	

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Course Code			Course Name							Page ##	
1123			MECHANICAL ENGINEERING (CAD)							82	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1123234540	ELECTRICAL DRIVES AND CONTROL	1123	4	P	
5	4	0	4123540	CNC AND COMPUTER AIDED INSPECTION PRACTICAL	P	1123235440	COMPUTER AIDED INSPECTION & FEA SIMULATION	1123	5	P	
5	5	0	4123550	SOLID MODELLING PRACTICAL	P	1123234320	SOLID MODELLING AND 3D PRINTING	1123	4	P	
5	6	1	4123561	FEA AND SIMULATION PRACTICAL	P	1123235440	COMPUTER AIDED INSPECTION & FEA SIMULATION	1123	5	P	
5	6	2	4123562	JIGS AND FIXTURE AND PRESS TOOLS PRACTICAL	P	1123235545	JIGS, FIXTURES & PRESS TOOLS	1123	5	P	
5	6	3	4123563	ROBOTICS AND AUTOMATION PRACTICAL	P	1123235542	INDUSTRIAL ROBOTICS AND AUTOMATION	1123	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	6000236112	ENTREPRENEURSHIP	1123	6	T	

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1141			MEDICAL ELECTRONICS							83	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4141350	ANATOMY AND PHYSIOLOGY PRACTICAL	P	1141233320	HUMAN ANATOMY AND PHYSIOLOGY PRACTICAL	1141	3	P	
3	6	0	4141360	BASIC ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	1141233420	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	1141	3	P	
3	7	0	4141370	MEDICAL ELECTRONICS PRACTICAL	P	1141234440	ANALOG AND DIGITAL ELECTRONICS	1141	4	P	
4	5	0	4141450	MEASURING INSTRUMENTS PRACTICAL	P	*** NO EQUIVALENT ***					

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1141			MEDICAL ELECTRONICS							84	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4141460	DIGITAL ELECTRONICS AND ITS CIRCUITS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4141470	BIOMEDICAL INSTRUMENTS PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4040550	MICROCONTROLLER PRACTICAL	P	1146234440	MICROCONTROLLER AND ITS APPLICATIONS***	1093	4	P	
5	5	0	4141550	MEDICAL LABORATORY INSTRUMENTS PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	1	4141561	PHYSIOTHERAPY AND OPERATION THEATRE EQUIPMENTS PRACTICAL	P	1141235540	MEDICAL EXPERT SYSTEMS	1141	5	P	
5	6	2	4040561	VERY LARGE SCALE INTEGRATION PRACTICAL	P	1141235642	VERY LARGE SCALE INTEGRATION	1141	5	P	
5	6	3	4040563	SIGNAL AND IMAGE PROCESSING PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				

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1142			MEDICAL LABORATORY TECHNOLOGY							85	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	1142233320	ELECTRONIC DEVICES & CIRCUITS	1142	3	P	
3	6	0	4142360	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	1142233540	ELECTRICAL CIRCUITS AND MACHINES	1142	3	P	
3	7	0	4142370	FUNDAMENTALS OF MLT PRACTICAL	P	1142233640	FUNDAMENTALS OF MEDICAL LABORATORY TECHNOLOGY	1142	3	P	
4	4	0	4142440	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1142234320	ANALOG AND DIGITAL ELECTRONICS	1142	4	P	
4	5	0	4142450	SENSORS AND SIGNAL CONDITIONING CIRCUITS	P	1142234540	SENSORS AND TRANSDUCER	1142	4	P	

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1142			MEDICAL LABORATORY TECHNOLOGY							86	
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4	6	0	4142460	MEASUREMENTS AND INSTRUMENTS PRACTICAL	P	1142234420	MEASUREMENTS AND INSTRUMENTS	1142	4	P	
4	7	0	4142470	CLINICAL PATHOLOGY PRACTICAL	P	1142234541	CLINICAL PATHOLOGY	1142	4	P	
5	4	0	4142540	BASICS OF BIOCHEMISTRY PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4142550	BLOOD BANKING TECHNIQUES PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	1	4141533	PHYSIOTHERAPY AND OPERATION THEATRE EQUIPMENTS PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	2	4142562	MICROBIOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	3	4142563	EMBEDDED SYSTEM DESIGN WITH AUDRINO PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1143			TECHNICIAN X-RAY TECHNOLOGY							87	
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1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4143350	RADIATION PHYSICS PRACTICAL	P	1143233540	RADIATION PHYSICS PRACTICAL	1143	3	P	
3	6	0	4143360	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	P	*** NO EQUIVALENT ***					
3	7	0	4143370	MANUFACTURING PROCESS PRACTICAL	P	1143233240	MANUFACTURING TECHNOLOGY	1143	3	P	
4	5	0	4143450	X – RAY MACHINES AND ACCESSORIES INSTALLATION	P	1143233620	HUMAN ANATOMY PHYSIOLOGY AND ORTHOPEDIC RELATED TO X-RAY	1143	3	P	
4	6	0	4143460	HUMAN ANATOMY PHYSIOLOGY AND ORTHOPEDIC RELATED TO X- RAY	P	1143233620	HUMAN ANATOMY PHYSIOLOGY AND ORTHOPEDIC RELATED TO X-RAY	1143	3	P	

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1143			TECHNICIAN X-RAY TECHNOLOGY							88	
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4	7	0	4143470	RADIOGRAPHY PROCEDURES AND IMAGING AND ROLE OF TECHNICIAN	P	1143234620	RADIOGRAPHY TECHNIQUES	1143	4	P	
5	4	0	4143540	RADIOLOGICAL EQUIPMENTS PRACTICAL	P	1143235721	RADIOLOGICAL EQUIPMENTS PRACTICAL	1143	5	P	
5	5	0	4143550	NON DESTRUCTIVE TESTING I PRACTICAL	P	1143235420	NON DESTRUCTIVE TESTING	1143	5	P	
5	6	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1143236243	ENTREPRENEUR SHIP & START-UPS	1143	6	P	
5	7	1	4143571	RADIOGRAPHY OF WELDING AND CASTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	2	4042450	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	3	4143573	ADVANCED RADIOLOGICAL EQUIPMENTS PRACTICAL	P	1143236242	ADVANCED RADIOLOGICAL EQUIPMENTS	1143	6	P	

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1144			AUTOMATION AND ROBOTICS							89	
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1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4049370	PRODUCTION TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4049450	PROGRAMMING IN C PRACTICAL	P	*** NO EQUIVALENT ***					
4	6	0	4049460	FLUID POWER AUTOMATION PRACTICAL	P	*** NO EQUIVALENT ***					

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1144			AUTOMATION AND ROBOTICS							90	
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4	7	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4049540	ROBOTICS PRACTICAL	P		*** NO EQUIVALENT ***				
5	5	0	4049550	PLC AND HMI PRACTICAL	P	2049235440	PLC AND HMI	1144	5	P	
5	6	0	4049560	MICROCONTROLLER PRACTICAL	P	2049234640	MICROCONTROLLERS AND APPLICATIONS	1144	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	2049235654	INNOVATION AND START-UPS	1144	5	P	

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1145			BIOMEDICAL ELECTRONICS							91	
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1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4145350	HUMAN ANATOMY AND PHYSIOLOGY PRACTICAL	P	BM232460	ANATOMY PRACTICES	1145	2	P	
3	6	0	4145360	BASICS OF ELECTRICAL ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4145370	C PROGRAMMING PRACTICAL	P	1040234540	PROGRAMMING IN C	1145	4	P	
4	5	0	4093360	SENSORS AND MEASUREMENTS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1145			BIOMEDICAL ELECTRONICS							92	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4145470	BASICS OF MEDICAL IMAGE PROCESSING PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4141470	BIOMEDICAL INSTRUMENTS PRACTICAL	P	1040233540	LINEAR INTEGRATED CIRCUITS	1040	3	P	
5	5	0	4040550	MICROCONTROLLER PRACTICAL	P	1146234440	MICROCONTROLLER AND ITS APPLICATIONS***	1145	4	P	
5	6	1	4145561	DIAGNOSTIC AND THERAPEUTIC EQUIPMENTS PRACTICAL	P	1146235340	DIAGNOSTIC AND THERAPEUTIC EQUIPMENTS***	1145	5	P	
5	6	2	4040561	VERY LARGE SCALE INTEGRATION PRACTICAL	P	1141235642	VERY LARGE SCALE INTEGRATION	1141	5	P	
5	6	3	4142540	BASICS OF BIOCHEMISTRY PRACTICAL	P	1142235320	BASICS OF BIOCHEMISTRY	1142	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1146			ECG TECHNOLOGY							93	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4146350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4146370	ANATOMY AND PHYSIOLOGY PRACTICAL	P	BM232460	ANATOMY PRACTICES	1146	2	P	
4	5	0	4146450	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1040233420	DIGITAL ELECTRONICS PRACTICAL	1146	3	P	
4	6	0	4146460	SENSORS AND INSTRUMENTATION PRACTICAL	P	1146233640	SENSORS AND SIGNAL CONDITIONING***	1146	3	P	

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Course Code			Course Name							Page ##	
1146			ECG TECHNOLOGY							94	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	7	0	4146470	CLINICAL CARDIOLOGY PRACTICAL	P	1146235440	CLINICAL CARDIOLOGY	1146	5	P	
5	4	0	4146540	BIOSIGNALS AND ECG INSTRUMENTATION PRACTICAL	P	1146235340	DIAGNOSTIC AND THERAPEUTIC EQUIPMENTS***	1146	5	P	
5	5	0	4146550	INTERPRETATION OF ECG PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	0	4042561	MICROCONTROLLER PRACTICAL	P	1146234440	MICROCONTROLLER AND ITS APPLICATIONS***	1146	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1202			PRINTING TECHNOLOGY (FULL TIME)							95	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	48234	PRINTING PRIMER PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	48235	DESIGN STUDIO PRACTICAL	P	1202233640	GRAPHIC DESIGN	1202	3	P	
3	6	0	48236	DIGITAL PRE-PRESS PRACTICAL	P	1202233320	IMAGE MANIPULATION	1202	3	P	
3	7	0	48237	PRINT PRODUCTION PRACTICAL	P	1202234440	PRINTED PRODUCTS DESIGN	1202	4	P	
4	5	0	48245	OFFSET MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1202			PRINTING TECHNOLOGY (FULL TIME)							96	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	48246	DESK TOP PUBLISHING FOR PRINT PRODUCTION PRACTICAL	P	1202233440	DESKTOP PUBLISHING FOR PRINT PRODUCTION	1202	3	P	
4	7	0	48247	PRINT FINISHING PRACTICAL	P	1202233540	PRINT FINISHING	1202	3	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1202235654	INNOVATION & STARTUP	1202	5	P	
5	5	0	48255	E-PUBLISHING PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	0	48256	DIGITAL PRINTING PRACTICAL	P	1202234540	DIGITAL PRINTING	1202	4	P	
5	7	0	48257	PACKAGING PRACTICAL	P	1202235440	PACKAGING DESIGN	1202	5	P	

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Course Code			Course Name							Page ##	
1214			HOTEL MANAGEMENT AND CATERING TECHNOLOGY (FULL TIME)							97	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	8	0	48918	FUNDAMENTALS OF COMPUTERS	P	1214231840	FUNDAMENTALS OF COMPUTERS	1214	1	P	
1	9	0	48919	HOSPITALITY COMMUNICATION PRACTICAL	P	1214231740	HOSPITALITY COMMUNICATION	1214	1	P	
1	10	0	489110	FOOD PRODUCTION AND PATESSERIE PRACTICAL	P	1214232620	FOOD PRODUCTION AND PATESSERIE PRACTICAL	1214	2	P	
1	11	0	489111	FOOD AND BEVERAGE SERVICE PRACTICAL	P	1214232720	FOOD AND BEVERAGE SERVICE	1214	2	P	
1	12	0	489112	ACCOMODATION OPERATION PRACTICAL	P	1214231520	ACCOMMODATION OPERATION	1214	1	P	
1	13	0	489113	FRONT OFFICE OPERATION PRACTICAL	P	1214231620	FRONT OFFICE OPERATION	1214	1	P	
5	5	0	4214550	ADVANCED CULINARY ARTS PRACTICAL	P	1214235520	ADVANCED CULINARY ARTS	1214	5	P	
5	6	0	4214560	FOOD AND BEVERAGE MANAGEMENT PRACTICAL	P	1214235620	FOOD & BEVERAGE MANAGEMENT	1214	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1214235720	ENTREPRENEURSHIP AND STARTUPS	1214	5	P	

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Course Code			Course Name							Page ##	
1220			MECHANICAL ENGINEERING (TOOL AND DIE) (FULL TIME)							98	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4022340	COMPUTER AIDED MACHINE AND TOOL DRAWING	P	*** NO EQUIVALENT ***					
3	5	0	4022350	ENGINEERING METROLOGY PRACTICAL	P	1220233440	ENGINEERING METROLOGY	1220	3	P	
3	6	0	4022360	MANUFACTURING TECHNOLOGY PRACTICAL	P	1220233620	MANUFACTURING TECHNOLOGY PRACTICAL	1220	3	P	
3	7	0	4022370	BASIC ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4022450	MECHANICAL MATERIAL TESTING PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1220			MECHANICAL ENGINEERING (TOOL AND DIE) (FULL TIME)							99	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4022460	HYDRAULICS AND PNEUMATICS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4022470	TOOL ROOM SPECIAL MACHINES PRACTICAL	P	1220234420	SPECIAL MACHINES PRACTICAL	1220	4	P	
5	4	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	1220	5	P	
5	4	2	4020563	MECHATRONICS PRACTICAL	P	1047233640	INTRODUCTION TO MECHATRONICS SYSTEMS	1047	3	P	
5	4	3	4020540	PROCESS AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	1020	6	P	
5	5	0	4022550	JIGS AND FIXTURES PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	0	4022560	PRESS TOOLS PRACTICAL	P	1220234520	PRESS TOOL MAKING PRACTICAL	1220	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	1020	5	P	

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Course Code			Course Name							Page ##	
1221			MECHANICAL ENGINEERING (REFRIGERATION & AIR-CONDITIONING) (FT)							100	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4221340	MECHANICS OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	1221233340	MECHANICS OF MATERIALS	1221	3	P	
3	5	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1221233620	BASIC MANUFACTURING TECHNOLOGY PRACTICAL	1221	3	P	
3	6	0	4221360	ENGINEERING THERMODYNAMICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4221370	HVAC DRAWING AND CAD PRACTICAL	P	1221234340	HVAC CAD DRAWING	1221	4	P	
4	5	0	4221450	APPLIED THERMODYNAMICS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1221			MECHANICAL ENGINEERING (REFRIGERATION & AIR-CONDITIONING) (FT)							101	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1221	3	P	
5	4	0	4221540	REFRIGERATION PRACTICAL	P	1221234520	REFRIGERATION PRACTICAL	1221	4	P	
5	5	0	4221550	AIR CONDITIONING PRACTICAL	P	1221233540	R&A/C WORKSHOP	1221	3	P	
5	6	1	4221561	R AND A C MACHINES PRACTICAL	P	1221235420	HVAC MACHINES PRACTICAL	1221	5	P	
5	6	2	4221562	CRYOGENIC ENGINEERING PRACTICAL	P	1221233540	R&A/C WORKSHOP	1221	3	P	
5	6	3	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P	1020236248	GREEN ENERGY & ENGINEERING	1221	6	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	1221	5	P	

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Course Code			Course Name							Page ##	
1222			AGRICULTURAL TECHNOLOGY (FULL TIME)							102	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4023340	PRINCIPLES OF CROP PRODUCTION PRACTICAL	P	1023233640	PRINCIPLES OF CROP PRODUCTION	1222	3	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1023233540	MACHINE DRAWING & CAD	1222	3	P	
3	6	0	4023360	SURVEYING AND LEVELLING PRACTICAL	P	1010233340	SURVEYING PRACTICE	1222	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4023450	MECHANICAL TESTING & FLUID POWER PRACTICAL	P	1023234520	FLUID MECHANICS PRACTICAL	1222	4	P	

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Course Code			Course Name							Page ##	
1222			AGRICULTURAL TECHNOLOGY (FULL TIME)							103	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4023460	MACHINE SHOP – I PRACTICAL (LATHE AND WELDING)	P	1023234640	MACHINE SHOP PRACTICE	1222	4	P	
4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	1222	3	P	
5	5	0	4023550	TRACTOR AND ITS POWER UNITS PRACTICAL	P	1023235420	FARM TRACTOR PRACTICAL	1222	5	P	
5	6	0	4023560	MACHINE SHOP II PRACTICAL (GRINDING AND MILLING)	P	1023234640	MACHINE SHOP PRACTICE	1222	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1023235654	INNOVATION & STARTUP	1222	5	P	

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Course Code			Course Name							Page ##	
1223			FASHION TECHNOLOGY (FULL TIME)							104	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4078340	FOOD CHEMISTRY PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4066350	EMBROIDERY PRACTICAL	P	1066233420	SURFACE ORNAMENTATION	1223	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1066233620	BASIC GARMENT CONSTRUCTION	1223	3	P	
3	7	0	4066370	FASHION ACCESSORIES PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4078450	FOOD PROCESSING TECHNOLOGY PRACTICAL	P	1066234640	GARMENT PATTERN DRAFTING I	1223	4	P	

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Course Code			Course Name							Page ##	
1223			FASHION TECHNOLOGY (FULL TIME)							105	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4078460	FOOD ANALYSIS AND QUALITY CONTROL PRACTICAL	P	1223234520	FASHION CAD	1223	4	P	
4	7	0	4078470	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4078540	CHEMICAL PROCESSING AND TESTING OF TEXTILE PRACTICAL	P	1066235541	CHEMICAL PROCESSING AND TESTING OF TEXTILES	1223	5	P	
5	5	0	4078550	FOOD PRESERVATION PRACTICAL	P	1066235320	GARMENT PATTERN DRAFTING	1223	5	P	
5	6	0	4078560	FASHION ILLUSTRATIONS PRACTICAL	P	1066233520	FASHION ILLUSTRATION	1223	3	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1223235654	INNOVATION & STARTUP	1223	5	P	

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Course Code			Course Name							Page ##	
1224			TEXTILE TECHNOLOGY (TEXTILE DESIGN AND WEAVING)							106	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4224340	FIBRE SCIENCE AND YARN MANUFACTURE PRACTICAL	P	1224233420	FIBRE IDENTIFICATION	1224	3	P	
3	5	0	4224350	BASICS OF TEXTILE DESIGNING PRACTICAL	P	1224233620	FUNDAMENTALS OF TEXTILE DESIGNS	1224	3	P	
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	1224233520	FABRIC MANUFACTURE - I	1224	3	P	
3	7	0	4224370	WEAVING PREPARATORY PRACTICAL	P	1224233520	FABRIC MANUFACTURE - I	1224	3	P	
4	5	0	4224450	COLOUR AND WEAVE EFFECTS PRACTICAL	P	1224234640	COLOUR AND WEAVE EFFECTS	1224	4	P	

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Course Code			Course Name							Page ##	
1224			TEXTILE TECHNOLOGY (TEXTILE DESIGN AND WEAVING)							107	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4060460	FABRIC MANUFACTURE – II PRACTICAL	P	1224234420	FABRIC MANUFACTURE	1224	4	P	
4	7	0	4224470	FABRIC ANALYSIS PRACTICAL	P	1224234320	FABRIC ANALYSIS	1224	4	P	
5	4	0	4060540	TEXTILE TESTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	0	4060550	TEXTILE WET PROCESSING PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	0	4224560	JACQUARD DESIGNS PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1225			TEXTILE TECHNOLOGY (MAN MADE FIBRE)							108	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4066340	FASHION DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4061350	PRETREATMENT FOR TEXTILE COLOURATION PRACTICAL	P	1061233520	CHEMICAL PREPARATORY PROCESSES FOR TEXTILES	1225	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1225233620	BASIC SEWING TECHNIQUE	1225	3	P	
3	7	0	4225370	SCIENCE OF NATURAL FIBRE PRACTICAL	P	1225233420	ANALYSIS OF TEXTILE NATURAL FIBRES	1225	3	P	
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	1061234640	TEXTILE MANUFACTURING TECHNOLOGY	1225	4	P	

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Course Code			Course Name							Page ##	
1225			TEXTILE TECHNOLOGY (MAN MADE FIBRE)							109	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4225460	SCIENCE OF SYNTHETIC FIBRE PRACTICAL	P	1225234320	ANALYSIS OF TEXTILE SYNTHETIC FIBRE	1225	4	P	
4	7	0	4225470	TECHNOLOGY OF DYEING OF NATURAL AND MANMADE TEXTILE	P	1225234520	DYEING OF MANMADE TEXTILES	1225	4	P	
5	4	0	4060540	TEXTILE TESTING PRACTICAL	P	1061235320	PHYSICAL TESTING OF TEXTILES	1225	5	P	
5	5	0	4061550	TECHNOLOGY OF TEXTILE PRINTING PRACTICAL	P	1061234420	TEXTILE PRINTING TECHNIQUES	1225	4	P	
5	6	0	4225560	GARMENT MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1225235542	GARMENT PATTERN ENGINEERING	1225	5	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1225235654	INNOVATION & STARTUP	1225	5	P	

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Course Code			Course Name							Page ##	
1226			APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)(FULL TIME)							110	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4065340	FASHION SKETCHING AND DRAWING PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4066350	EMBROIDERY PRACTICAL	P	1066233420	SURFACE ORNAMENTATION	1226	3	P	
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	1066233620	BASIC GARMENT CONSTRUCTION	1226	3	P	
3	7	0	4066370	FASHION ACCESSORIES PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4065450	PATTERN DRAFTING AND CONSTRUCTION – I PRACTICAL	P	1066234640	GARMENT PATTERN DRAFTING I	1226	4	P	

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1226			APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)(FULL TIME)							111	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4065460	HANDICRAFTS PRACTICAL	P	1226234520	HANDICRAFTS AND APPLICATIONS	1226	4	P	
4	7	0	4065470	HOME TEXTILES PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4065540	CHEMICAL PROCESSING AND TESTING OF TEXTILES PRACTICAL	P	1066235541	CHEMICAL PROCESSING AND TESTING OF TEXTILES	1226	5	P	
5	5	0	4065550	PATTERN DRAFTING AND CONSTRUCTION	P	1066235320	GARMENT PATTERN DRAFTING	1226	5	P	
5	6	0	4065560	FASHION ILLUSTRATIONS PRACTICAL	P	1066233520	FASHION ILLUSTRATION	1226	3	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1226235654	INNOVATION & STARTUP	1226	5	P	

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Course Code			Course Name							Page ##	
2010			CIVIL ENGINEERING (SANDWICH)							112	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	6	0	4010350	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL - I	P	1010233440	BUILDING PLANNING AND DRAWING	2010	3	P	
3	7	0	4010360	MATERIAL TESTING LABORATORY - I	P	*** NO EQUIVALENT ***					
3	8	0	4010370	SURVEYING PRACTICE - I	P	1010233340	SURVEYING PRACTICE	2010	3	P	
4	2	0	4010450	MATERIAL TESTING LABORATORY - II	P	1010233640	MATERIAL TESTING LAB	2010	3	P	
4	3	0	4010491	INDUSTRIAL TRAINING - I	P	2010234274	INDUSTRIAL TRAINING (SW)	2010	4	P	

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2010			CIVIL ENGINEERING (SANDWICH)							113	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
5	4	0	4010540	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL II	P	*** NO EQUIVALENT ***					
5	5	0	4010550	ENVIRONMENTAL ENGINEERING LABORATORY	P	1010235540	ENVIRONMENTAL ENGINEERING	2010	6	P	
5	6	0	4010460	CONSTRUCTION PRACTICE LABORATORY	P	1010234540	CONSTRUCTION PRACTICES	2010	5	P	
5	7	1	4010561	ADVANCED SURVEYING AND BASIC GIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	2	4010562	CONCRETE TECHNOLOGY PRACTICAL	P	1010234440	CONCRETE TECHNOLOGY	2010	5	P	
5	7	3	4010563	GEOTECHNICAL ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
5	8	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1010235654	INNOVATION AND STARTUP	2010	6	P	

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2020			MECHANICAL ENGINEERING (SANDWICH)							114	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	2020	3	P	
3	6	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1020233320	WORKSHOP PRACTICES	2020	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	2	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	*** NO EQUIVALENT ***					
4	3	0	4020480	INDUSTRIAL TRAINING I	P	2020234274	INDUSTRIAL TRAINING (SW)	2020	4	P	

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2020			MECHANICAL ENGINEERING (SANDWICH)						115	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type
5	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	2021233440	STRENGTH OF MATERIALS AND FLUID MECHANICS	2021	3	P
5	6	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	2020	3	P
5	7	0	4020550	THERMAL ENGINEERING PRACTICAL	P	1020234540	HEAT POWER ENGINEERING	2020	5	P
5	8	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	2020	6	P
5	8	2	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P	1020236248	GREEN ENERGY & ENGINEERING	2020	6	P
5	8	3	4020563	MECHATRONICS PRACTICAL	P	1047233640	INTRODUCTION TO MECHATRONICS SYSTEMS	1047	3	P

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2021			MECHANICAL ENGINEERING (FOUNDRY) (SANDWICH)							116	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4922360	INDUSTRIAL PRODUCTION TECHNOLOGY - I PRACTICAL	P	2021233640	INDUSTRIAL PRODUCTION TECHNOLOGY	2021	3	P	
3	7	0	4922370	SOLID MECHANICS AND FLUID MECHANICS PRACTICAL	P	2021233440	STRENGTH OF MATERIALS AND FLUID MECHANICS	2021	3	P	
3	8	0	4921380	SAND TESTING AND METALLURGY PRACTICAL	P	2021235341	SAND TESTING LABORATORY	2021	5	P	
4	1	0	4921410	METROLOGY AND METALLOGRAPHY PRACTICAL	P	*** NO EQUIVALENT ***					

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2021			MECHANICAL ENGINEERING (FOUNDRY) (SANDWICH)							117	
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4	2	0	4022420	FLUID POWER AND THERMAL ENGINEERING	T		*** NO EQUIVALENT ***				
4	3	0	4921430	INDUSTRIAL TRAINING I	P	2021234373	INDUSTRIAL TRAINING	2021	4	P	
5	5	0	4022550	JIGS AND FIXTURES PRACTICAL	P	1025235546	JIGS, FIXTURES AND PRESS TOOL DESIGN	1025	5	P	
5	6	0	4921560	FOUNDRY TECHNOLOGY PRACTICAL	P	2021234120	FOUNDRY PRACTICAL	2021	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	2021236680	INNOVATION & STARTUP	2021	6	P	
5	8	1	4022580	ELECTRICAL CONTROL SYSTEMS PRACTICAL	P	2021235540	INDUSTRIAL DRIVES AND CONTROL	2021	5	P	
5	8	2	4921582	COMPUTER AIDED DESIGN AND MANUFACTURING PRACTICAL	P	2021233540	PRODUCTION DRAWING AND MODELING	2021	3	P	
5	8	3	4921583	AUTOMOBILE ENGINEERING PRACTICAL	P	1021235440	AUTOMOBILE SERVICING PRACTICAL	1021	5	P	

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2022			MECHANICAL ENGINEERING (MACHINE TOOL MAINTENANCE & REPAIRS) (SWC)							118	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	2022	3	P	
3	6	0	4922360	INDUSTRIAL PRODUCTION TECHNOLOGY - I PRACTICAL	P	2022233620	INDUSTRIAL PRODUCTION TECHNOLOGY	2022	3	P	
3	7	0	4922370	SOLID MECHANICS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	8	0	4922380	INDUSTRIAL EQUIPMENTS AND METROLOGY PRACTICAL	P	2022234220	ENGINEERING METROLOGY LAB	2022	4	P	
4	1	0	4922410	MAINTENANCE I LAB	P	*** NO EQUIVALENT ***					

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2022			MECHANICAL ENGINEERING (MACHINE TOOL MAINTENANCE & REPAIRS) (SWC)							119	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	2	0	4922420	FOUNDRY AND WELDING PRACTICAL	P		*** NO EQUIVALENT ***				
4	3	0	4922430	INDUSTRIAL TRAINING I (REPORT WRITING AND VIVA VOCE)	P		*** NO EQUIVALENT ***				
5	5	0	4922550	INDUSTRIAL PRODUCTION TECHNOLOGY II PRACTICAL	P	2022235620		0	0		
5	6	0	4922560	HYDRAULICS AND PNEUMATICS LAB	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				
5	8	0	4922580	ELECTRICAL CONTROL SYSTEMS PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	2022	3	P	

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2023			AUTOMOBILE ENGINEERING (SANDWICH)							120	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4021350	MATERIAL TESTING AND FLUID MECHANICS & PNEUMATICS	P	1021233640	FLUID POWER SYSTEMS	2023	3	P	
3	6	0	4021360	PRODUCTION TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	2	0	4021470	AUTOMOTIVE ENGINES PRACTICAL	P	*** NO EQUIVALENT ***					
4	3	0	4021480	INDUSTRIAL TRAINING - I	P	*** NO EQUIVALENT ***					

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2023			AUTOMOBILE ENGINEERING (SANDWICH)							121	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
5	5	0	4021540	AUTOMOBILE SERVICING PRACTICAL	P	1021235440	AUTOMOBILE SERVICING PRACTICAL	1021	5	P	
5	6	0	4021550	ENGINE TESTING AND EMISSION MEASUREMENT PRACTICAL	P	1021235547	ENGINE TESTING	1021	5	P	
5	7	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1021233540	AUTOMOBILE ENGINEERING DRAWING	2023	3	P	
5	8	1	4021561	TWO WHEELER AND THREE WHEELER TECHNOLOGY PRACTICAL	P	1021235542	TWO-WHEELER AND THREE-WHEELER TECHNOLOGY	1021	5	P	
5	8	2	4021562	TRACTOR AND FARM EQUIPMENT PRACTICAL	P	1023235420	FARM TRACTOR PRACTICAL	1023	5	P	
5	8	3	4021563	INDUSTIRAL AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	1020	6	P	

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DRAFT EQUIVALENCE OF PRACTICAL SUBJECTS (N/Z SCHEME TO R2023)

Course Code			Course Name							Page ##	
2030			ELECTRICAL AND ELECTRONICS ENGINEERING(SANDWICH)							122	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4030350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	1030233620	ELECTRICAL MACHINES I PRACTICAL	2030	3	P	
3	6	0	4030360	ELECTRICAL WORK SHOP PRACTICAL	P	1030234540	SERVICING OF ELECTRICAL APPLIANCES	2030	5	P	
3	7	0	4030370	WIRING AND WINDING PRACTICAL	P	*** NO EQUIVALENT ***					
4	2	0	4030450	ELECTRICAL MACHINES AND INSTRUMENTATION PRACTICAL	P	1030234620	ELECTRICAL MACHINES II PRACTICAL	2030	5	P	

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Course Code			Course Name							Page ##	
2030			ELECTRICAL AND ELECTRONICS ENGINEERING(SANDWICH)							123	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	3	0	4020491	INDUSTRIAL TRAINING – I	P	2030234274	INDUSTRIAL TRAINING	2030	4	P	
5	6	0	4030450	ELECTRICAL MACHINES AND INSTRUMENTATION PRACTICAL	P	1030234620	ELECTRICAL MACHINES II PRACTICAL	2030	5	P	
5	7	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1030233440	ANALOG AND DIGITAL ELECTRONICS	2030	3	P	
5	8	0	4030470	ELECTRICAL CIRCUITS AND SIMULATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	9	0	4030514	CONTROL OF ELECTRICAL MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
2047			MECHATRONICS ENGINEERING (SANDWICH)							124	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4047360	MANUFACTURING TECHNOLOGY PRACTICAL	P	1047233540	MANUFACTURING TECHNOLOGY	2047	3	P	
3	8	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	2	0	4047460	INDUSTRIAL INSTRUMENTATION AND SENSORS PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
2047			MECHATRONICS ENGINEERING (SANDWICH)							125	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	3	0	4047480	INDUSTRIAL TRAINING – I	P	2047234274	INDUSTRIAL TRAINING(SW) - I	2047	4	P	
5	5	0	4047370	CAD PRACTICAL	P	1047233320	CAD FOR AUTOMATION	2047	3	P	
5	6	0	4040550	MICROCONTROLLER PRACTICAL	P	1047234320	EMBEDDED PROGRAMMING	2047	5	P	
5	7	0	4047540	INDUSTRIAL AUTOMATION PRACTICAL	P	1047234230	LOW COST AUTOMATION	2047	5	PT	
5	8	1	4047564	C PROGRAMMING LANGUAGE PRACTICAL	P	*** NO EQUIVALENT ***					
5	8	2	4047565	POWER ELECTRONICS AND DRIVES PRACTICAL	P	1047234540	INDUSTRIAL DRIVES AND CONTROL	2047	6	P	
5	8	3	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
2049			MECHATRONICS ENGINEERING (SANDWICH)							126	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P		*** NO EQUIVALENT ***				
3	6	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P		*** NO EQUIVALENT ***				
3	7	0	4049370	PRODUCTION TECHNOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
2060			TEXTILE TECHNOLOGY (SANDWICH)							127	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	4	0	4060340	FIBRE IDENTIFICATION - PRACTICAL	P	1060233420	FIBRE IDENTIFICATION PRACTICAL	2060	3	P	
3	5	0	4060350	YARN MANUFACTURE - I PRACTICAL	P	1060233540	TECHNOLOGY OF SPINNING PROCESS - I	2060	3	P	
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	1060233640	TECHNOLOGY OF WEAVING PROCESS - I	2060	3	P	
3	7	0	4060370	QUALITY ANALYSIS IN SPINNING AND WEAVING PREPARATORY -	P	*** NO EQUIVALENT ***					
4	5	0	4060450	YARN MANUFACTURE – II PRACTICAL	P	1060234540	TECHNOLOGY OF SPINNING PROCESS-II	2060	4	P	

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Course Code			Course Name							Page ##	
2060			TEXTILE TECHNOLOGY (SANDWICH)							128	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
4	6	0	4060460	FABRIC MANUFACTURE – II PRACTICAL	P	1060234640	TECHNOLOGY OF WEAVING PROCESS -II	2060	4	P	
4	7	0	4060470	FABRIC STRUCTURE PRACTICAL	P	1060234320	FABRIC STRUCTURE ANALYSIS	2060	4	P	
5	4	0	4060540	TEXTILE TESTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	5	1	4060550	TEXTILE WET PROCESSING PRACTICAL	P	1060234420	TEXTILE CHEMICAL PROCESSING	2060	4	P	
5	5	2	4060560	ADVANCED FABRIC DESIGN ANALYSIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	3	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					

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2061			TEXTILE PROCESSING (SANDWICH)							129	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	4	0	4061340	FIBRE AND CHEMICAL ANALYSIS PRACTICAL	P	1061233420	FIBRE AND CHEMICAL ANALYSIS	1061	3	P	
3	5	0	4061350	PRETREATMENT FOR TEXTILE COLOURATION PRACTICAL	P	1061233520	CHEMICAL PREPARATORY PROCESSES FOR TEXTILES	1061	3	P	
3	6	0	4061360	DYEING OF NATURAL FIBRES PRACTICAL	P	1061233620	TECHNOLOGY OF NATURAL FIBRE DYEING	1061	3	P	
3	7	0	4061370	QUALITY ASSURANCE IN PRETREATMENT AND DYEING	P	1061234520	QUALITY ASSURANCE IN TEXTILE PROCESSING	1061	4	P	
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	1061234640	TEXTILE MANUFACTURING TECHNOLOGY	1061	4	P	

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2061			TEXTILE PROCESSING (SANDWICH)							130	
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4	6	0	4061460	DYEING OF MANMADE FIBRES AND BLENDS PRACTICAL	P	1061234320	TECHNOLOGY OF MAN MADE FIBRES AND BLENDS DYEING	1061	4	P	
4	7	0	4061470	TECHNOLOGY OF TEXTILE FINISHING PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4061540	TEXTILE TESTING PRACTICAL	P	1061235320	PHYSICAL TESTING OF TEXTILES	1061	5	P	
5	5	0	4061550	TECHNOLOGY OF TEXTILE PRINTING PRACTICAL	P	1061234420	TEXTILE PRINTING TECHNIQUES	1061	4	P	
5	6	0	4061560	QUALITY ASSURANCE IN PRINTING AND FINISHING PRACTICAL	P	1061234520	QUALITY ASSURANCE IN TEXTILE PROCESSING	1061	4	P	
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1061235654	INNOVATION & STARTUP	1061	5	P	

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2074			POLYMER TECHNOLOGY (SANDWICH)							131	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	4	0	4974340	POLYMER ENGINEERING DRAWING PRACTICAL	P	2074233420	POLYMER ENGINEERING DRAWING PRACTICAL	2074	3	P	
3	5	0	4974350	POLYMER SCIENCE PRACTICAL	P	2074233320	POLYMER SCIENCE PRACTICAL	2074	3	P	
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	1076233640	GENERAL ENGINEERING*	1070	3	P	
3	7	0	4974370	COMPUTER AIDED DESIGN PRACTICAL	P	*** NO EQUIVALENT ***					
4	4	0	4974440	CHEMICAL ENGINEERING PRACTICAL	P	1076234520	MECHANICAL OPERATIONS PRACTICAL*	1070	4	P	

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4	5	0	4974450	POLYMER PROCESS MEASUREMENT AND CONTROL PRACTICAL	P	1076234640	PROCESS INSTRUMENTATION AND CONTROL*	1070	4	P	
4	6	0	4974460	POLYMER PREPARATION AND ANALYSIS PRACTICAL	P	2074233320	POLYMER SCIENCE PRACTICAL	2074	3	P	
4	7	0	4974470	POLYMER IDENTIFICATION PRACTICAL	P	2074233540	RUBBER MATERIALS	2074	3	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	2074235620	INNOVATION & STARTUP	2074	5	P	
5	5	0	4974550	RUBBER COMPOUNDING AND SPECIMEN PREPARATION	P	2074234320	RUBBER COMPOUNDING PRACTICAL	2074	4	P	
5	6	0	4974560	POLYMER PROCESSING PRACTICAL	P	2074234420	POLYMER PROCESSING PRACTICAL	2074	4	P	
5	7	1	4974571	POLYMER COMPOSITES PRACTICAL	P	2074234420	POLYMER PROCESSING PRACTICAL	2074	4	P	
5	7	2	4974572	TYRE TECHNOLOGY PRACTICAL	P	2074235440	POLYMER TESTING	2074	5	P	
5	7	3	4974573	POLYMER RECYCLING PRACTICAL	P	2074235440	POLYMER TESTING	2074	5	P	

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2079			CHEMICAL ENGINEERING (SANDWICH))							133	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4076350	TECHNICAL ANALYSIS PRACTICAL	P	1076233520	TECHNICAL ANALYSIS PRACTICAL	2079	3	P	
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	1076233640	GENERAL ENGINEERING*	2079	3	P	
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	1076233320	MOMENTUM TRANSFER PRACTICAL*	2079	3	P	
4	5	0	4076450	MECHANICAL OPERATIONS PRACTICAL	P	1076234520	MECHANICAL OPERATIONS PRACTICAL*	2079	4	P	
4	6	0	4076460	HEAT TRANSFER PRACTICAL	P	1076234420	HEAT TRANSFER PRACTICAL*	2079	4	P	

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2079			CHEMICAL ENGINEERING (SANDWICH))							134	
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4	7	0	4076470	CHEMICAL TECHNOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1076235654	INNOVATION & START UP	2079	5	P	
5	5	0	4076550	CHEMICAL PROCESS SIMULATION PRACTICAL	P	1076235521	CHEMICAL PROCESS SIMULATION LAB	2079	5	P	
5	6	0	4076560	PROCESS INSTRUMENTATION & CONTROL PRACTICAL	P	1076234640	PROCESS INSTRUMENTATION AND CONTROL*	2079	4	P	
5	7	0	4076570	PETROLEUM TESTING PRACTICAL	P	1076235522	PETROLEUM TESTING LAB	2079	5	P	

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2080			CERAMIC TECHNOLOGY(SANDWICH)							135	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4980350	GEOLOGY LABORATORY	P	*** NO EQUIVALENT ***					
3	6	0	4980360	CERAMIC RAW MATERIALS ANALYSIS LABORATORY	P	*** NO EQUIVALENT ***					
3	7	0	4980370	CERAMIC TESTING LABORATORY - I	P	*** NO EQUIVALENT ***					
4	5	0	4980450	CERAMIC TESTING LABORATORY - II	P	2080234250	CERAMIC PRODUCT ANALYSIS LABORATORY	2080	4	P	
4	6	0	4980460	MOULDING LABORATORY	P	2080234260	CERAMIC MOULDING LABORATORY	2080	4	P	

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2080			CERAMIC TECHNOLOGY(SANDWICH)							136	
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4	7	0	4980470	CERAMIC PROCESSING LABORATORY	P	2080234440	CERAMIC FABRICATION LABORATORY	2080	4	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	2080236112	ENTREPRENEURSHIP AND START-UPS	0	0	T	
5	5	0	4980550	SLIP TESTING LABORATORY	P	2080235252	SLIP TESTING LABORATORY	2080	5	P	
5	6	0	4980560	REFRATORIES LABORATORY	P	2080235240	REFRATORIES LABORATORY	2080	5	P	
5	7	0	4980570	CERAMIC BODY PREPARATION LABORATORY	P	2080235251	CERAMIC BODY PREPARATION LABORATORY	2080	5	P	

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2101			LEATHER TECHNOLOGY (SANDWICH)							137	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
3	5	0	4090350	PRE-TANNING CHEMICALS TESTING PRACTICAL	P	2101233340	APPLIED LEATHER CHEMISTRY	2101	3	P	
3	6	0	4090360	PRE-TANNING PROCESS PRACTICAL	P	2101233420	PRE TANNING PROCESS PRACTICAL	2101	3	P	
3	7	0	4090370	HEAVY LEATHER MANUFACTURE PRACTICAL	P	2101233540	PROCESS OF HEAVY AND SPORTS LEATHER	2101	3	P	
4	5	0	4090450	LEATHER MACHINES BASIC OPERATION PRACTICAL	P	2101234520	LEATHER MACHINES BASIC OPERATION PRACTICAL	2101	4	P	
4	6	0	4090460	LIGHT LEATHER MANUFACTURE PRACTICAL	P	2101234420	LIGHT LEATHER MANUFACTURE PRACTICAL	2101	4	P	

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2101			LEATHER TECHNOLOGY (SANDWICH)							138	
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4	7	0	4090470	LEATHER FINISHING PRACTICAL	P	*** NO EQUIVALENT ***					
5	1	0	4090510	INDUSTRIAL TRAINING REPORT AND ASSESSMENT	P	2101235120	INDUSTRIAL TRAINING	2101	5	P	

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Course Code			Course Name							Page ##	
2149			ROBOTICS AND AUTOMATION ENGINEERING (SANDWICH)							139	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
1	6	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	2000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	2000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	2000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4047350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	2049233440	ELEMENTS OF ELECTRICAL ENGINEERING	2149	3	P	
3	7	0	4049370	PRODUCTION TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
3	8	0	4049450	PROGRAMMING IN C PRACTICAL	P	2049233320	PROGRAMMING IN C	2149	3	P	
4	2	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	2049233640	ANALOG AND DIGITAL CIRCUITS	2149	3	P	

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2149			ROBOTICS AND AUTOMATION ENGINEERING (SANDWICH)							140	
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4	3	0	4049910	INDUSTRIAL TRAINING – I	P	2149234274	INDUSTRIAL TRAINING (SW) - I	2149	4	P	
5	6	0	4049450	PROGRAMMING IN C PRACTICAL	P	2049234540	FLUID POWER AUTOMATION	2149	5	P	
5	7	0	4049540	ROBOTICS PRACTICAL	P	*** NO EQUIVALENT ***					
5	8	0	4049550	PLC AND HMI PRACTICAL	P	2049235440	PLC AND HMI	2149	6	P	

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Course Code			Course Name							Page ##	
3010			CIVIL ENGINEERING (PART TIME)							141	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
2	5	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	3000	2	P	
2	6	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	3000	2	P	
2	7	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	3010	2	P	
3	5	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	3000	2	P	
4	4	0	4010360	MATERIAL TESTING LABORATORY - I	P	*** NO EQUIVALENT ***					
4	5	0	4010370	SURVEYING PRACTICE - I	P	1010233340	SURVEYING PRACTICE	3010	4	P	
4	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
5	3	0	4010350	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL - I	P	1010233440	BUILDING PLANNING AND DRAWING	3010	4	P	
5	4	0	4010440	HYDRAULICS LABORATORY	P	1010233540	HYDRAULICS	3010	4	P	
5	5	0	4010470	SURVEYING PRACTICE – II	P	1010233340	SURVEYING PRACTICE	3010	4	P	

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Course Code			Course Name							Page ##	
3020			MECHANICAL ENGINEERING (PART TIME)							142	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
2	5	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	3000	2	P	
2	6	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	3000	2	P	
2	7	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	3020	2	P	
3	4	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	3000	2	P	
3	5	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	4	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1020233320	WORKSHOP PRACTICES	3020	4	P	
4	5	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
5	4	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	3020	4	P	
5	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	2021233440	STRENGTH OF MATERIALS AND FLUID MECHANICS	2021	3	P	

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Course Code			Course Name							Page ##	
3030			ELECTRICAL AND ELECTRONICS ENGINEERING (PART TIME)							143	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
2	5	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	3000	2	P	
2	6	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	3000	2	P	
2	7	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	3030	2	P	
3	4	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	3000	2	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
4	3	0	4030350	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	DP232270	DRAFTING PRACTICES	3000	2	P	
4	4	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
4	5	0	4030360	ELECTRICAL WORK SHOP PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4030450	ELECTRICAL MACHINES AND INSTRUMENTATION PRACTICAL	P	1030234620	ELECTRICAL MACHINES II PRACTICAL	3030	5	P	
5	5	0	4030370	WIRING AND WINDING PRACTICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
3040			ELECTRONICS AND COMMUNICATION ENGINEERING (PART TIME)							144	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
2	5	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	3000	2	P	
2	6	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232452	APPLIED CHEMISTRY - II	3000	2	P	
2	7	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	3040	2	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	1040233320	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	1040	3	P	
3	5	0	4040350	ELECTRICAL CIRCUITS AND INSTRUMENTATION PRACTICAL	P	*** NO EQUIVALENT ***					
4	4	0	4040360	PROGRAMMING IN C PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4040370	SIMULATION PRACTICAL	P	*** NO EQUIVALENT ***					
5	3	0	4040440	INDUSTRIAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
5	4	0	4040450	COMMUNICATION ENGINEERING PRACTICAL	P	1040234340	BASICS OF COMMUNICATION ENGINEERING	3040	5	P	
5	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1040233420	DIGITAL ELECTRONICS PRACTICAL	3040	4	P	

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7010			CIVIL ENGINEERING (TAMIL MEDIUM)							145	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4010350	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL - I	P	1010233440	BUILDING PLANNING AND DRAWING	7010	3	P	
3	6	0	4010360	MATERIAL TESTING LABORATORY - I	P	1010233640	MATERIAL TESTING LAB	7010	3	P	
3	7	0	4010370	SURVEYING PRACTICE - I	P	1010233340	SURVEYING PRACTICE	7010	3	P	
4	4	0	4010440	HYDRAULICS LABORATORY	P	1010233540	HYDRAULICS	7010	3	P	
4	5	0	4010450	MATERIAL TESTING LABORATORY - II	P	1010233640	MATERIAL TESTING LAB	7010	3	P	

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7010			CIVIL ENGINEERNG (TAMIL MEDIUM)							146	
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4	6	0	4010460	CONSTRUCTION PRACTICE LABORATORY	P	1010234540	CONSTRUCTION PRACTICES	7010	4	P	
4	7	0	4010470	SURVEYING PRACTICE – II	P	1010233340	SURVEYING PRACTICE	7010	3	P	
5	4	0	4010540	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL II	P	*** NO EQUIVALENT ***					
5	5	0	4010550	ENVIRONMENTAL ENGINEERING LABORATORY	P	1010235540	ENVIRONMENTAL ENGINEERING	7010	5	P	
5	6	1	4010561	ADVANCED SURVEYING AND BASIC GIS PRACTICAL	P	*** NO EQUIVALENT ***					
5	6	2	4010562	CONCRETE TECHNOLOGY PRACTICAL	P	1010234440	CONCRETE TECHNOLOGY	7010	4	P	
5	6	3	4010563	GEOTECHNICAL ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1010235654	INNOVATION AND STARTUP	7010	5	P	

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7020			MECHANICAL ENGINEERING (TAMIL MEDIUM)							147	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1000	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232441	APPLIED PHYSICS - I	1000	2	P	
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1000	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	7020	3	P	
3	6	0	4020360	MANUFACTURING TECHNOLOGY - I PRACTICAL	P	1020233320	WORKSHOP PRACTICES	7020	3	P	
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	7020	4	P	
4	5	0	4020450	STRENGTH OF MATERIALS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	6	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	*** NO EQUIVALENT ***					

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7020			MECHANICAL ENGINEERING (TAMIL MEDIUM)						148	
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4	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	7020	3	P
5	4	0	4020540	PROCESS AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	7020	6	P
5	5	0	4020550	THERMAL ENGINEERING PRACTICAL	P	1020234540	HEAT POWER ENGINEERING	7020	4	P
5	6	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	7020	5	P
5	6	2	4020562	GREEN ENERGY AND ENERGY CONSERVATION PRACTICAL	P	1020236248	GREEN ENERGY & ENGINEERING	7020	6	P
5	6	3	4020563	MECHATRONICS PRACTICAL	P	1047233640	INTRODUCTION TO MECHATRONICS SYSTEMS	1047	3	P
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	7020	5	P