

DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI - 600 025
BOARD EXAMINATIONS :: APRIL 2026
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	1010	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	1010	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	
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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	
6	4	0	4010640	COMPUTER APPLICATIONS IN CIVIL ENGINEERING PRACTICE	P	1010235320	COMPUTER APPLICATIONS IN CIVIL ENGINEERING.	1010	5	P	
6	5	1	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234640	ESTIMATION AND COSTING	1010	4	P	

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6	5	2	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234640	ESTIMATION AND COSTING	1010	4	P	
6	5	3	4010653	WATER RESOURCES ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
6	6	0	4010660	PROJECT WORK AND INTERNSHIP	P	1010236374	IN-HOUSE PROJECT	1010	6	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	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1012	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	1012	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	*** NO EQUIVALENT ***					
3	5	0	4012350	ARCHITECTURAL DRAWING - I	P	*** NO EQUIVALENT ***					
3	6	0	4012360	BASIC DESIGN	P	*** NO EQUIVALENT ***					
3	7	0	4012370	COMPUTER APPLICATION IN ARCHITECTURE - I	P	*** NO EQUIVALENT ***					
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)							5	
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	
6	4	0	4012640	COMPUTER APPLICATION IN ARCHITECTURE	P	1012235520	COMPUTER STUDIO-III	1012	5	P	

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1012			ARCHITECTURAL ASSISTANTSHIP (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	
6	5	1	4012651	STRUCTURAL DETAILING AND DRAWING	P	1012235644	STRUCTURAL DETAILING AND DRAWING	1012	5	P	
6	5	2	4012652	LANDSCAPE AND DETAILING	P	1012236242	LANDSCAPE DESIGN AND DETAILING	1012	6	P	
6	5	3	4012653	BUILDING SERVICES PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4012660	PROJECT WORK AND INTERNSHIP	P	1012236374	IN-HOUSE PROJECT	1012	6	P	

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1013			CIVIL AND ENVIRONMENTAL 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	1013	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	1013	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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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	
6	4	0	4013640	COMPUTER APPLICATIONS IN CIVIL ENGINEERING PRACTICE	P	1010235320	COMPUTER APPLICATIONS IN CIVIL ENGINEERING.	1013	5	P	
6	5	1	4013651	ESTIMATION AND COSTING LABORATORY	P	1010234640	ESTIMATION AND COSTING	1013	4	P	

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Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	2	4013652	CONCRETE TECHNOLOGY PRACTICAL	P	1010234440	CONCRETE TECHNOLOGY	1013	4	P	
6	5	3	4013653	WATER RESOURCES ENGINEERING	P	*** NO EQUIVALENT ***					
6	6	0	4013660	PROJECT WORK AND INTERNSHIP	P	1010236374	IN-HOUSE PROJECT	1013	6	P	

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1020			MECHANICAL ENGINEERING (FULL TIME)							10	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1020	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	1020	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	1020234320	ADVANCED MANUFACTURING TECHNOLOGY PRACTICAL	1020	4	P	

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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	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	1020	5	P	
6	4	0	4020640	SOLID MODELLING PRACTICAL	P	1020236245	PRODUCT DESIGN & DEVELOPMENT	1020	6	P	
6	5	1	4020651	INDUSTRIAL ROBOTICS AND 3D PRINTING PRACTICAL	P	1020235545	INDUSTRIAL ROBOTICS	1020	5	P	
6	5	2	4020652	REFRIGERATION AND AIR CONDITIONING PRACTICAL	P	1020235546	HVAC SYSTEMS AND COMPONENTS	1020	5	P	

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6	5	3	4020653	AUTOMOBILE TECHNOLOGY PRACTICAL	P	1020235547	AUTOMOBILE TECHNOLOGY	1020	5	P	
6	6	0	4020660	PROJECT WORK AND INTERNSHIP	P	1020236374	IN-HOUSE PROJECT	1020	6	P	

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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1021	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	1021	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	*** NO EQUIVALENT ***					
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	
6	4	0	4021640	HYBRID ELECTRICAL VEHICLE PRACTICAL	P	1021236246	ELECTRICALVEHICLETECHNOLOGYPRACTICAL	1021	6	P	
6	5	1	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	1021	5	P	
6	5	2	4021652	HEAVY VEHICLE ENGINEERING PRACTICAL	P	1021236242	EARTHMOVINGEQUIPMENTS	1021	6	P	

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6	5	3	4021653	HEATING VENTILATION AND AIR CONDITIONING SYSTEMS	P	1020235546	HVAC SYSTEMS AND COMPONENTS	1021	5	P	
6	6	0	4021660	PROJECT WORK AND INTERNSHIP	P	1021236374	IN-HOUSEPROJECT	1021	6	P	

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1023			AGRICULTURAL ENGINEERING (FULL TIME)							16	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1023	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	1023	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	*** NO EQUIVALENT ***					
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4023360	SURVEYING AND LEVELLING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	1020	4	P	
4	5	0	4023450	MECHANICAL TESTING & FLUID POWER PRACTICAL	P	1023234520	FLUID MECHANICS PRACTICAL	1023	4	P	

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Course Code			Course Name							Page ##	
1023			AGRICULTURAL 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	
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	
6	4	0	4023640	FARM MACHINERY PRACTICAL	P	1023235520	FARM MACHINERY PRACTICAL	1023	5	P	
6	5	0	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4023660	PROJECT WORK AND INTERNSHIP	P	1023236352	FELLOWSHIP	1023	6	P	

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Course Code			Course Name							Page ##	
1025			PRODUCTION 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	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1025	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	1025	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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1025			PRODUCTION 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	
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	
6	4	0	4020640	SOLID MODELLING PRACTICAL	P	1020233540	PRODUCTION DRAWING AND MODELING	1025	3	P	
6	5	1	4025651	TOOL DESIGN PRACTICAL	P	1025235546	JIGS, FIXTURES AND PRESS TOOL DESIGN	1025	5	P	
6	5	2	4020652	REFRIGERATION AND AIR CONDITIONING PRACTICAL	P	*** NO EQUIVALENT ***					

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1025			PRODUCTION 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	
6	5	3	4025653	OIL HYDRAULICS AND PNEUMATICS PRACTICAL	P	1025234640	APPLIED HYDRAULICS AND PNEUMATICS	1025	4	P	
6	6	0	4025660	PROJECT WORK AND INTERNSHIP	P	1025236374	IN-HOUSEPROJECT	1025	6	P	

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1026			METALLURGY (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	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1026	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	1026	1	P	
2	9	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	4	0	4026340	METALLOGRAPHY PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4026350	FUELS TESTING AND METALLURGICAL ANALYSIS	P	*** NO EQUIVALENT ***					
3	6	0	4026360	FOUNDRY PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	1020	4	P	
4	5	0	4026450	CAD IN METALLURGY PRACTICAL	P	*** NO EQUIVALENT ***					

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1026			METALLURGY (FULL TIME)							22	
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	*** NO EQUIVALENT ***					
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	
6	4	1	4026641	NON	P	1026236221	NON-DESTRUCTIVE TESTING PRACTICAL	1026	6	P	
6	4	2	4026642	CORROSION & POWDER METALLURGY PRACTICAL	P	1026236223	CORROSION & POWDER METALLURGY PRACTICAL	1026	6	P	

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1026			METALLURGY (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	
6	4	3	4026643	ADVANCED METALLOGRAPHY PRACTICAL	P	1026235543	ADVANCED METALLOGRAPHY PRACTICAL	1026	5	P	
6	5	0	4026650	WELDING PRACTICAL	P	1026234540	WELDING METALLURGY PRACTICAL	1026	4	P	
6	6	0	4026660	PROJECT WORK AND INTERNSHIP	P	1026236374	IN-HOUSE PROJECT	1026	6	P	

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1027			MARINE ENGINEERING (FULL TIME)							24	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1027	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	1027	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	*** NO EQUIVALENT ***					
3	5	0	4027350	MARINE FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4027360	SHIP CONSTRUCTION TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4027370	MARINE WORKSHOP TECHNOLOGY - I PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4027450	MARINE WORKSHOP TECHNOLOGY II PRACTICAL	P	1027234640	MARINE WORKSHOP PRACTICE	1027	4	P	

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1027			MARINE ENGINEERING (FULL TIME)							25	
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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	
6	4	0	4027640	MARINE AUXILIARY MACHINERY PRACTICAL	P	1027235541	SHIP MACHINERY	1027	5	P	
6	5	1	4027651	PERSONAL SURVIVAL TECHNIQUES PRACTICAL	P	1027236241	PERSONALSURVIVALTECHNIQUES	1027	6	P	

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6	5	2	4027652	RULE OF THE ROAD PRACTICAL	P	1027235333	RULE OF THE ROAD	1027	5	PT	
6	5	3	4027653	MARINE WELDING TECHNOLOGY PRACTICAL	P	1027236243	MARINEWELDINGTECHNOLOGY	1027	6	P	
6	6	0	4027660	PROJECT WORK AND INTERNSHIP	P	1027236374	IN-HOUSE PROJECT	1027	6	P	

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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	1030	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1030	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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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	1030235543	CONTROL OF ELECTRICAL MACHINES	1030	5	P	
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	
6	4	0	4030640	ELECTRICAL ESTIMATION AND COSTING PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4030651	POWER ELECTRONICS PRACTICAL	P	1030235340	POWER ELECTRONICS	1030	5	P	

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6	5	2	4030652	BIO MEDICAL INSTRUMENTATION PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4030653	COMPUTER HARDWARE AND NETWORKS PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4030660	PROJECT WORK AND INTERNSHIP	P	1030236374	IN-HOUSE PROJECT	1030	6	P	

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1040			ELECTRONICS AND COMMUNICATION ENGINEERING (FULL TIME)							30	
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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	1040	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1040	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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1040			ELECTRONICS AND COMMUNICATION ENGINEERING (FULL TIME)							31	
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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	1040235752	INNOVATION & STARTUP	1040	5	P	
6	4	0	4040640	COMPUTER HARDWARE SERVICING AND NETWORKING PRACTICAL	P	1040235543	COMPUTER HARDWARE SERVICING	1040	5	P	
6	5	1	4040651	TELEVISION ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					

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1040			ELECTRONICS AND COMMUNICATION 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	
6	5	2	4040652	MOBILE AND OPTICAL COMMUNICATION PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	3	4040653	EMBEDDED SYSTEMS PRACTICAL	P	1040235440	EMBEDDED SYSTEMS	1040	5	P	
6	6	0	4040660	PROJECT WORK AND INTERNSHIP	P	1040236374	IN-HOUSE PROJECT	1040	6	P	

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Course Code			Course Name							Page ##	
1042			INSTRUMENTATION AND CONTROL ENGINEERING (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	
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	1042	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1042	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)							34	
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	1042234320	MEASUREMENT OF PROCESS VARIABLES PRACTICAL	1042	4	P	
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	
6	4	0	4042640	INDUSTRIAL AUTOMATION PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4042651	PROGRAMMABLE LOGIC CONTROLLER PRACTICAL	P	1042235540	INDUSTRIAL AUTOMATION USING PLC	1042	5	P	

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1042			INSTRUMENTATION AND CONTROL ENGINEERING (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	
6	5	2	4042652	P AND ID USING CAD PRACTICAL	P	1042235422	P & ID USING CAD PRACTICAL	1042	5	P	
6	5	3	4042653	EMBEDDED SYSTEM DESIGN WITH ARDUINO PRACTICAL	P	1042235423	EMBEDDED SYSTEM DESIGN WITH ARDUINO PRACTICAL	1042	5	P	
6	6	0	4042660	PROJECT WORK AND INTERNSHIP	P	1042236374	IN-HOUSE PROJECT	1042	6	P	

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1046			INFORMATION TECHNOLOGY (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	1046	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1046	1	P	
3	4	0	4052340	ELECTRICAL AND ELECTRONICS ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4052350	LINUX PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4052360	C PROGRAMMING AND DATA STRUCTURE PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4052450	WEB DESIGN AND PROGRAMMING PRACTICAL	P	1052233540	WEB DESIGNING	1046	3	P	

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Course Code			Course Name							Page ##	
1046			INFORMATION TECHNOLOGY (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	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	
6	4	0	4052640	COMPUTER HARDWARE AND NETWORKING PRACTICAL	P	1052235440	COMPUTER HARDWARE AND NETWORKING	1046	5	P	
6	5	1	4046651	SOCIAL NETWORKING AND ETHICAL HACKING PRACTICAL	P	*** NO EQUIVALENT ***					

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1046			INFORMATION TECHNOLOGY (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	
6	5	2	4052652	MULTIMEDIA SYSTEMS PRACTICAL	P	1052235544	MULTIMEDIASYSTEMS	1046	5	P	
6	5	3	4052653	DATA SCIENCE AND BIG DATA PRACTICAL	P	1052236241	DATASCIENCE	1046	6	P	
6	6	0	4052660	PROJECT WORK AND INTERNSHIP	P	1046236374	IN-HOUSEPROJECT	1046	6	P	

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1047			MECHATRONICS ENGINEERING (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	
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	1047	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1047	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	*** NO EQUIVALENT ***					
3	7	0	4047370	CAD PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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1047			MECHATRONICS ENGINEERING (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	
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	
6	4	0	4047640	CNC PRACTICAL	P	1047235440	CIM & CNC PROGRAMMING	1047	5	P	
6	5	1	4047654	PROCESS CONTROL PRACTICAL	P	1047235230	CONTROL SYSTEM FOR MECHATRONICS	1047	5	PT	

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1047			MECHATRONICS ENGINEERING (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	
6	5	2	4047655	AUTO ELECTRONICS PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4040636	EMBEDDED SYSTEM PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4047660	PROJECT WORK AND INTERNSHIP	P	1047236374	IN-HOUSEPROJECT	1047	6	P	

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Course Code			Course Name							Page ##	
1049			ELECTRONICS (ROBOTICS) (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	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	1049	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1049	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	*** NO EQUIVALENT ***					
3	7	0	4047370	CAD PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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1049			ELECTRONICS (ROBOTICS) (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	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	
6	4	0	4047640	CNC PRACTICAL	P	1047235440	CIM & CNC PROGRAMMING	1049	5	P	
6	5	1	4047654	PROCESS CONTROL PRACTICAL	P	1047235230	CONTROL SYSTEM FOR MECHATRONICS	1049	5	PT	

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1049			ELECTRONICS (ROBOTICS) (FULL TIME)							44	
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6	5	2	4047655	AUTO ELECTRONICS PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4040636	EMBEDDED SYSTEM PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4047660	PROJECT WORK AND INTERNSHIP	P	1047236374	IN-HOUSEPROJECT	1049	6	P	

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1052			COMPUTER ENGINEERING (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	
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	1052	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1052	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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1052			COMPUTER ENGINEERING (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	
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	
6	4	0	4052640	COMPUTER HARDWARE AND NETWORKING PRACTICAL	P	1052235440	COMPUTER HARDWARE AND NETWORKING	1052	5	P	
6	5	1	4052651	SOFTWARE ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					

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1052			COMPUTER ENGINEERING (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	
6	5	2	4052652	MULTIMEDIA SYSTEMS PRACTICAL	P	1052235544	MULTIMEDIASYSTEMS	1052	5	P	
6	5	3	4052653	DATA SCIENCE AND BIG DATA PRACTICAL	P	1052236241	DATASCIENCE	1052	6	P	
6	6	0	4052660	PROJECT WORK AND INTERNSHIP	P	1052236374	IN-HOUSEPROJECT	1052	6	P	

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1053			COMPUTER NETWORKING (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	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	*** NO EQUIVALENT ***					
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
3	5	0	4052350	LINUX PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4053360	C PROGRAMMING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4052370	E-PUBLISHING PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4052450	WEB DESIGN AND PROGRAMMING PRACTICAL	P	1052233540	WEB DESIGNING	1046	3	P	

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Course Code			Course Name							Page ##	
1053			COMPUTER NETWORKING (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	4052460	JAVA PROGRAMMING PRACTCAL	P	1052234340	JAVA PROGRAMMING	1046	4	P	
4	7	0	4053470	COMPUTER NETWORKS & SECURITY PRACTICAL	P	*** NO EQUIVALENT ***					
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 ***					
6	4	0	4053640	NETWORK SYSTEM MANAGEMENT PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4053651	SOCIAL NETWORKS & ETHICAL HACKING PRACTICAL	P	*** NO EQUIVALENT ***					

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1053			COMPUTER NETWORKING (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	
6	5	2	4052652	MULTIMEDIA SYSTEMS PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4052563	MOBILE COMPUTING PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4052660	PROJECT WORK AND INTERNSHIP	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1054			3D ANIMATION AND GRAPHICS (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	
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	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	45428	ART AND FOUNDATION - I PRACTICAL	P	*** NO EQUIVALENT ***					
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1054	1	P	
3	4	0	4054340	ART AND FOUNDATION - II PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4054350	GRAPHIC DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4054360	DIGITAL PHOTOGRAPHY PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4054370	2D GRAPHICS AND ANIMATION PRACTICAL	P	*** NO EQUIVALENT ***					
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)							52	
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	
6	4	0	4054640	DIGITAL EDITING PRACTICAL	P	1054234440	DIGITAL VIDEO EDITING	1054	4	P	
6	5	0	4054650	VISUAL EFX AND COMPOSTING PRACTICAL	P	1054236220	ROTOSCOPIC & COMPOSTING	1054	6	P	
6	6	0	4054660	PROJECTS	P	1054236374	IN-HOUSE PROJECT WORK	1054	6	P	

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Course Code			Course Name							Page ##	
1055			COMMUNICATION AND COMPUTER NETWORKING (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	
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	1055	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1055	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)							54	
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	P	
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	
6	4	0	4055640	NETWORK SECURITY PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4055651	CLOUD COMPUTING PRACTICAL	P	1055235440	CLOUD COMPUTING	1055	5	P	

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Course Code			Course Name							Page ##	
1055			COMMUNICATION AND COMPUTER NETWORKING (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	
6	5	2	4055652	ROUTER ADMINISTRATION PRACTICAL	P	1055235340	ADVANCE COMPUTER NETWORKING	1055	5	P	
6	5	3	4046540	SYSTEM ADMINISTRATION AND NETWORK SERVICES PRACTICAL	P	1055234620	SYSTEM ADMINISTRATION LAB	1055	4	P	
6	6	0	4055670	PROJECT WORK AND INTERNSHIP	P	*** NO EQUIVALENT ***					

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1056			ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (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	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	1056	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1056	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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1056			ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (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	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	*** NO EQUIVALENT ***					
5	6	3	4052563	MOBILE COMPUTING PRACTICAL	P	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1056235654	INNOVATION & STARTUP	1056	5	P	
6	4	0	4057640	ARTIFICIAL INTELLIGENCE - II PRACTICAL	P	1056235320	ARTIFICIAL INTELLIGENCE LABORATORY	1056	5	P	
6	5	1	4052651	SOFTWARE ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					

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1056			ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (FULL TIME)							58	
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6	5	2	4056652	DEEP LEARNING PRACTICAL	P	1056236242	APPLIED AI	1056	6	P	
6	5	3	4052653	DATA SCIENCE AND BIG DATA PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4056660	PROJECT WORK AND INTERNSHIP	P	1056236374	IN-HOUSE PROJECT	1056	6	P	

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1058			COMPUTER ENGINEERING AND IOT (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	
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	1058	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1058	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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1058			COMPUTER ENGINEERING AND IOT (FULL TIME)							60	
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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	
6	4	0	4052640	COMPUTER HARDWARE AND NETWORKING PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4058650	INDUSTRIAL IOT PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4058660	PROJECT WORK AND INTERNSHIP	P	*** NO EQUIVALENT ***					

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1060			TEXTILE TECHNOLOGY (FULL TIME)							61	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1060	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	1060	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	*** NO EQUIVALENT ***					
3	5	0	4060350	YARN MANUFACTURE - I PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	*** NO EQUIVALENT ***					
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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1060			TEXTILE TECHNOLOGY (FULL TIME)							62	
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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 ***					
6	4	0	4060640	GARMENT MANUFACTURING PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4060650	TEXTILE PRODUCT COSTING PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4060660	PROJECT WORK AND INTERNSHIP	P	*** NO EQUIVALENT ***					

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1061			TEXTILE PROCESSING (FULL TIME)							63	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1061	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	1061	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	*** NO EQUIVALENT ***					
3	5	0	4061350	PRETREATMENT FOR TEXTILE COLOURATION PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4061360	DYEING OF NATURAL FIBRES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4061370	QUALITY ASSURANCE IN PRETREATMENT AND DYEING	P	*** NO EQUIVALENT ***					
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	1061234640	TEXTILE MANUFACTURING TECHNOLOGY	1061	4	P	

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1061			TEXTILE PROCESSING (FULL TIME)							64	
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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	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	
6	4	0	4061640	GARMENT MANUFACTURE PRACTICAL	P	1061235441	CLOTHING TECHNOLOGY	1061	5	P	
6	5	0	4061650	SHADE MATCHING IN DYEING AND PRINTING PRACTICAL	P	1061235541	SHADE MATCHING IN DYEING AND PRINTING	1061	5	P	
6	6	0	4061660	PROJECT WORK AND INTERNSHIP	P	1061236374	IN-HOUSE PROJECT	1061	6	P	

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1064			TEXTILE MARKETING AND MANAGEMENT (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	
1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1064	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	1064	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	4064350	TEXTILE MARKET DATABASE MANAGEMENT - PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4064360	FIBRE ANALYSIS PRACTICAL	P	*** NO EQUIVALENT ***					
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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1064			TEXTILE MARKETING AND MANAGEMENT (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	
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	*** NO EQUIVALENT ***					
5	5	0	4064550	TEXTILE EXPORT PROCEDURE PRACTICAL	P	*** NO EQUIVALENT ***					
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	
6	4	0	4060640	GARMENT MANUFACTURING PRACTICAL	P	1061235541	SHADE MATCHING IN DYEING AND PRINTING	1064	5	P	
6	5	0	4064650	TEXTILE AND GARMENT COSTING PRACTICAL	P	1064236242	TEXTILE AND GARMENT COSTING	1064	6	P	
6	6	0	4064660	PROJECT WORK AND INTERNSHIP	P	1064236374	IN-HOUSE PROJECT	1064	6	P	

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Course Code			Course Name							Page ##	
1066			GARMENT TECHNOLOGY (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	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1066	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	1066	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	4066350	EMBROIDERY PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
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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1066			GARMENT TECHNOLOGY (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	
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	
6	4	0	4066640	ADVANCED PATTERN DRAFTING AND CONSTRUCTION PRACTICAL	P	1066235421	ADVANCED GARMENT CONSTRUCTION	1066	5	P	
6	5	0	4066650	FASHION DRAPING PRACTICAL	P	1066236241	FASHION DRAPING	1066	6	P	
6	6	0	4066660	PROJECT WORK AND INTERNSHIP	P	1066236374	IN-HOUSE PROJECT	1066	6	P	

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1068			TEXTILE TECHNOLOGY (KNITTING) (FULL TIME)							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	1068	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	1068	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	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4067370	WOVEN GARMENT PATTERN DRAFTING PRACTICAL	P	*** NO EQUIVALENT ***					
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)							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	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	
6	4	1	4067640	KNITTED GARMENT CONSTRUCTION PRACTICAL	P	1068235320	PATTERN DRAFTING AND CONSTRUCTION OF MEN	1068	5	P	
6	5	2	4067650	GARMENT CAD PRACTICAL	P	1066235423	GARMENT CAD	1068	5	P	
6	6	0	4067660	PROJECT WORK AND INTERNSHIP	P	1068236374	IN-HOUSE PROJECT	1068	6	P	

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1069			APPAREL TECHNOLOGY (FULL TIME)							71	
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	1069	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	1069	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	4066350	EMBROIDERY PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
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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1069			APPAREL TECHNOLOGY (FULL TIME)							72	
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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	
6	4	0	4069640	ADVANCED PATTERN DRAFTING AND CONSTRUCTION PRACTICAL	P	1066235421	ADVANCED GARMENT CONSTRUCTION	1069	5	P	
6	5	0	4069650	FASHION DRAPING PRACTICAL	P	1066236241	FASHION DRAPING	1069	6	P	
6	6	0	4066660	PROJECT WORK AND INTERNSHIP	P	1066236374	IN-HOUSE PROJECT	1069	6	P	

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1070			CHEMICAL TECHNOLOGY (FULL TIME)							73	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1070	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	1070	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	*** NO EQUIVALENT ***					
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	*** NO EQUIVALENT ***					
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)							74	
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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	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	
6	4	0	4076640	MASS TRANSFER PRACTICAL	P	1076235420	MASS TRANSFER PRACTICAL*	1070	5	P	
6	5	0	4076650	CHEMICAL CAD PRACTICAL	P	1076233420	CHEMICAL CAD PRACTICAL*	1070	3	P	
6	6	0	4076660	PROJECT WORK AND INTERNSHIP	P	1076236374	IN-HOUSE PROJECT WORK	1070	6	P	

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1074			SUGAR TECHNOLOGY (FULL TIME)							75	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1074	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	1074	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	*** NO EQUIVALENT ***					
3	7	0	4074370	SUGAR TECHNOLOGY PRACTICAL - I	P	*** NO EQUIVALENT ***					
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)							76	
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	
6	4	0	4074640	SUGAR TECHNOLOGY PRACTICAL IV	P	1074234420	SUGAR TECHNOLOGY PRACTICAL-II	1074	4	P	
6	5	0	4074650	BY PRODUCTS AND QUALITY CONTROL PRACTICAL	P	1074234620	BY PRODUCTS AND QUALITY CONTROL PRACTICAL	1074	4	P	
6	6	0	4074660	PROJECT WORK AND INTERNSHIP	P	1074236374	IN-HOUSE PROJECT WORK	0	0	P	

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1075			PETROCHEMICAL ENGINEERING (FULL TIME)							77	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1075	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	1075	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	*** NO EQUIVALENT ***					
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	*** NO EQUIVALENT ***					
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)							78	
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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	
6	4	0	4076640	MASS TRANSFER PRACTICAL	P	1076235420	MASS TRANSFER PRACTICAL*	1075	5	P	
6	5	0	4076650	CHEMICAL CAD PRACTICAL	P	1076233420	CHEMICAL CAD PRACTICAL*	1075	3	P	
6	6	0	4075660	PROJECT WORK AND INTERNSHIP	P	1075236374	IN-HOUSE PROJECT WORK	0	0	P	

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Course Code			Course Name							Page ##	
1076			CHEMICAL ENGINEERING (FULL TIME)							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	1076	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	1076	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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Course Code			Course Name							Page ##	
1076			CHEMICAL ENGINEERING (FULL TIME)							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	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	
6	4	0	4076640	MASS TRANSFER PRACTICAL	P	1076235420	MASS TRANSFER PRACTICAL*	1076	5	P	
6	5	0	4076650	CHEMICAL CAD PRACTICAL	P	1076233420	CHEMICAL CAD PRACTICAL*	1076	3	P	
6	6	0	4076660	PROJECT WORK AND INTERNSHIP	P	1076236374	IN-HOUSE PROJECT WORK	1076	6	P	

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Course Code			Course Name							Page ##	
1078			FOOD PROCESSING AND PRESERVATION (FULL TIME)							81	
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		*** NO EQUIVALENT ***				
3	5	0	4078350	FOOD MICROBIOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				
3	6	0	4078360	FUNDAMENTALS OF NUTRITION PRACTICAL	P		*** NO EQUIVALENT ***				
3	7	0	4078370	FUNDAMENTALS OF FOOD SCIENCE PRACTICAL	P		*** NO EQUIVALENT ***				
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)							82	
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	
6	5	1	4078651	FOOD PACKING TECHNOLOGY PRACTICAL	P	1078236621	FOOD PACKING TECHNOLOGY	1078	6	P	
6	5	2	4078652	PROCESSING OF MEAT, POULTRY AND FISH PRODUCTS PRACTICAL	P	1078236622	PROCESSING OF MEAT POULTRY & FISH PRODUCTS	1078	6	P	
6	5	3	4078653	TECHNOLOGY OF BEVERAGES PRACTICAL	P	1078236623	TECHNOLOGY OF BEVERAGES	1078	6	P	
6	6	0	4078660	PROJECT	P	1078236774	IN-HOUSE PROJECT WORK	1078	6	P	

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Course Code			Course Name							Page ##	
1079			PAPER TECHNOLOGY (FULL TIME)							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	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1079	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	1079	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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Course Code			Course Name							Page ##	
1079			PAPER TECHNOLOGY (FULL TIME)							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	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	
6	4	0	4079640	PROCESS SIMULATION AND DESIGN PRACTICAL	P	1079236244	PRODUCTION & QUALITY MANAGEMENT	1079	6	P	
6	5	0	4079650	ENVIRONMENTAL ENGINEERING PRACTICAL	P	1079236241	ENVIRONMENTAL ENGINEERING	1079	6	P	
6	6	0	4079660	PROJECT WORK AND INTERNSHIP	P	1079236374	IN-HOUSE PROJECT	1079	6	P	

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Course Code			Course Name							Page ##	
1080			COMMERCIAL PRACTICE (FULL TIME)							85	
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		*** NO EQUIVALENT ***				
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	
3	6	0	4080360	DATA ANALYTICAL LAB	P		*** NO EQUIVALENT ***				
3	7	0	4080370	DESKTOP PUBLISHING LAB	P		*** NO EQUIVALENT ***				
4	6	0	4080460	COMPUTERIZED ACCOUNTING LAB I	P		*** NO EQUIVALENT ***				
4	7	0	4080470	RDBMS LAB	P		*** NO EQUIVALENT ***				
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 ##	
1080			COMMERCIAL PRACTICE (FULL TIME)							86	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	6	0	4080660	PROJECT WORK AND INTERNSHIP	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1081			MODERN OFFICE PRACTICE (FULL TIME)							87	
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	
3	6	0	4080360	DATA ANALYTICAL LAB	P	*** NO EQUIVALENT ***					
3	7	0	4080370	DESKTOP PUBLISHING LAB	P	*** NO EQUIVALENT ***					
4	6	0	4080460	COMPUTERIZED ACCOUNTING LAB I	P	*** NO EQUIVALENT ***					
4	7	0	4080470	RDBMS LAB	P	*** NO EQUIVALENT ***					
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)							88	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	6	0	4080660	PROJECT WORK AND INTERNSHIP	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1082			OFFICE MANAGEMENT AND COMPUTER APPLICATIONS (FULL TIME)							89	
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	6	0	48126	OFFICE AUTOMATION LAB II	P	1080232620	OFFICE AUTOMATION LAB - II	1080	2	P	
2	7	0	48227	WEB DESIGNING LAB	P	CH232451	APPLIED CHEMISTRY - I	1000	2	P	
2	8	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
3	6	0	4082360	C PROGRAMMING LAB	P	*** NO EQUIVALENT ***					
3	7	0	4080370	DESKTOP PUBLISHING LAB	P	*** NO EQUIVALENT ***					
4	6	0	4082460	COMPUTERIZED ACCOUNTING LAB I	P	*** NO EQUIVALENT ***					
4	7	0	4082470	RDBMS LAB	P	*** NO EQUIVALENT ***					
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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Course Code			Course Name							Page ##	
1082			OFFICE MANAGEMENT AND COMPUTER APPLICATIONS (FULL TIME)							90	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	0	4082650	PROBLEM SOLVING USING PYTHON LAB	P		*** NO EQUIVALENT ***				
6	6	0	4082660	PROJECT WORK AND INTERNSHIP	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1091			AIRCRAFT MAINTENANCE ENGINEERING (AVIONICS)							91	
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	1091	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	1091	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	*** NO EQUIVALENT ***					
3	6	0	4091360	PROGRAMMING LANGUAGE IN C AND C++ PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4092370	AERO MODELING PRACTICAL USING CAD	P	*** NO EQUIVALENT ***					
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)							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	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	
6	4	0	4091640	FLIGHT CONTROL PRACTICAL USING MAT LAB	P	1091234640	FUNDAMENTALS OF CONTROL SYSTEMS	1091	4	P	
6	5	0	4091650	AIRCRAFT NAVIGATION SYSTEMS PRACTICAL	P	1091235540	AIRCRAFT NAVIGATION SYSTEM	1091	5	P	
6	6	0	4091660	PROJECT WORK AND INTERNSHIP	P	1091236374	IN-HOUSE PROJECT	1091	6	P	

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1092			AERONAUTICAL ENGINEERING							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	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1092	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	1092	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	*** NO EQUIVALENT ***					
3	6	0	4092360	BASICS OF THERMODYNAMICS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4092370	AERO MODELING PRACTICAL USING CAD	P	*** NO EQUIVALENT ***					
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							94	
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	
6	4	0	4092640	UAV SYSTEM DESIGN PRACTICAL	P	1092235440	ADVANCED AIRFRAME STRUCTURE	1092	5	P	
6	5	0	4092650	AIRCRAFT STRUCTURE REPAIR PRACTICAL	P	1092234640	AIRCRAFT STRUCTURAL REPAIR	1092	4	P	
6	6	0	4092660	PROJECT WORK AND INTERNSHIP	P	1092236374	IN-HOUSE PROJECT	1092	6	P	

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Course Code			Course Name							Page ##	
1093			BIOMEDICAL ENGINEERING							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	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	1093	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	*** NO EQUIVALENT ***					
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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Course Code			Course Name							Page ##	
1093			BIOMEDICAL ENGINEERING							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	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	*** NO EQUIVALENT ***					
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 ***					
6	4	0	4093640	FIBRE OPTICS AND LASER IN MEDICINE PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4142651	INSTALLATION MAINTENANCE & SAFETY HANDLING OF MEDICAL	P	1145235542	INSTALLATION, MAINTENANCE AND SAFETY HANDLING OF MEDICAL	1093	5	P	

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Course Code			Course Name							Page ##	
1093			BIOMEDICAL ENGINEERING							97	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	2	4040640	COMPUTER HARDWARE SERVICING AND NETWORKING PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4040653	EMBEDDED SYSTEMS PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4093660	PROJECT WORK	P	1093236374	IN-HOUSE PROJECT	1093	6	P	

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Course Code			Course Name							Page ##	
1094			LOGISTICS TECHNOLOGY							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	1094	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	1094	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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Course Code			Course Name							Page ##	
1094			LOGISTICS TECHNOLOGY							99	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
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	
6	1	0	4094610	APPRENTICESHIP - ON THE JOB TRAINING	P	1094235252	INTERNSHIP	1094	6	P	
6	2	0	4094620	MATERIAL HANDLING PRACTICAL	P	1094235230	MATERIAL HANDLING PRACTICAL	1094	5	P	

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Course Code			Course Name							Page ##	
1121			MINING ENGINEERING (FULL TIME)							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	1121	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	1121	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	*** NO EQUIVALENT ***					
3	6	0	4121360	MINE SUREYING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	*** NO EQUIVALENT ***					
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)							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	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		*** NO EQUIVALENT ***				
5	5	0	4121550	MINE HAZARD AND SAFETY PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	1	4121561	ROCK MECHANICS AND GROUND CONTROL PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	2	4121562	DRILLING AND BLASTING PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	3	4121563	MINERAL PROCESSING PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1121235654	INNOVATION & STARTUP	1121	5	P	
6	4	0	4121640	MINING ENVIRONMENTAL PRACTICAL II	P	1121233640	MINING ENVIRONMENTAL ENGINEERING	1121	3	P	
6	5	1	4121651	SURFACE MINING PRACTICAL	P		*** NO EQUIVALENT ***				

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1121			MINING ENGINEERING (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	
6	5	2	4121652	MINE VENTILATION PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4121653	STRATA CONTROL PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4121660	PROJECT WORK AND INTERNSHIP	P	1121236374	IN-HOUSEPROJECT	1121	6	P	

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Course Code			Course Name							Page ##	
1122			FIRE TECHNOLOGY AND SAFETY							103	
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	1122	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	1122	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	*** NO EQUIVALENT ***					
3	7	0	42937	PERSONNEL PROTECTIVE EQUIPMENT PRACTICAL	P	*** NO EQUIVALENT ***					
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							104	
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	
6	4	0	42963	SAFETY AND REGULATIONS AUDIT PRACTICAL	P	1122235542	SAFETY AND REGULATIONS AUDIT	1122	5	P	
6	5	1	42984	CONSTRUCTION AND MATERIAL HANDLING SAFETY PRACTICAL	P	1122236243	CONSTRUCTION AND MATERIAL HANDLING	1122	6	P	
6	5	2	42985	TRANSPORT AND ROAD SAFETY PRACTICAL	P	1122236242	TRANSPORT AND ROAD SAFETY	1122	6	P	

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1122			FIRE TECHNOLOGY AND SAFETY							105	
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6	5	3	42986	EMERGENCY PREPAREDNESS PRACTICAL	P	1122236241	EMERGENCY PREPAREDNESS	1122	6	P	
6	6	0	42966	PROJECT WORK AND INTERNSHIP	P	1122236374	IN-HOUSE PROJECT**	1122	6	P	

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1123			MECHANICAL ENGINEERING (CAD)							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	1123	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	1123	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)							107	
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	*** NO EQUIVALENT ***					
6	4	0	4123640	TECHNICAL DRAFTING AND PRODUCTION DRAWING PRACTICAL	P	1123233540	PRODUCTION DRAWING PRACTICES	1123	3	P	
6	5	1	4123651	ADDITIVE MANUFACTURING PRACTICAL	P	1123234320	SOLID MODELLING AND 3D PRINTING	1123	4	P	
6	5	2	4123652	WEB TECHNOLOGY AND INTERNET OF THINGS PRACTICAL	P	1020235543	INDUSTRIAL IOT	1123	5	P	

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1123			MECHANICAL ENGINEERING (CAD)							108	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	3	4020653	AUTOMOBILE TECHNOLOGY PRACTICAL	P	1123235541	AUTOMOBILE ENGINEERING	1123	5	P	
6	6	0	4123660	PROJECT WORK AND INTERNSHIP	P	1123236374	IN-HOUSEPROJECT	1123	6	P	

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1141			MEDICAL ELECTRONICS							109	
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	1141	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1141	1	P	
3	4	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4141350	ANATOMY AND PHYSIOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4141360	BASIC ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4141370	MEDICAL ELECTRONICS PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4141450	MEASURING INSTRUMENTS PRACTICAL	P	*** NO EQUIVALENT ***					

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1141			MEDICAL ELECTRONICS							110	
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		*** NO EQUIVALENT ***				
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 ***				
6	4	0	4141640	INSTALLATION MAINTENANCE AND SAFETY HANDLING OF MEDICAL	P	1141235641	INSTALLATION, MAINTENANCE AND SAFETY HANDLING OF MEDICAL	1141	5	P	
6	5	1	4141661	MICROBIOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1141			MEDICAL ELECTRONICS							111	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	2	4040640	COMPUTER HARDWARE SERVICING AND NETWORKING PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4040653	EMBEDDED SYSTEMS PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4041660	PROJECT WORK	P	1141236374	IN-HOUSE PROJECT**	1141	6	P	

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Course Code			Course Name							Page ##	
1142			MEDICAL LABORATORY TECHNOLOGY							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	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	1000	2	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	*** NO EQUIVALENT ***					
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	*** NO EQUIVALENT ***					
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1142	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1142	1	P	
3	5	0	4040340	ELECTRONIC DEVICES AND CIRCUITS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4142360	ELECTRICAL CIRCUITS AND MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4142370	FUNDAMENTALS OF MLT PRACTICAL	P	*** NO EQUIVALENT ***					
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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Course Code			Course Name							Page ##	
1142			MEDICAL LABORATORY TECHNOLOGY							113	
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	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 ***					
6	4	0	4142640	DIAGNOSTIC AND THERAPEUTIC EQUIPMENTS PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	1	4142651	INSTALLATION MAINTENANCE & SAFETY HANDLING OF MEDICAL	P	*** NO EQUIVALENT ***					

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Course Code			Course Name							Page ##	
1142			MEDICAL LABORATORY TECHNOLOGY							114	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	2	4142652	MEDICAL IMAGE PROCESSING PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4044653	COMPUTER HARDWARE AND SERVICING PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4142660	PROJECT WORK AND INTERNSHIP REPORT	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1143			TECHNICIAN X-RAY TECHNOLOGY							115	
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	*** NO EQUIVALENT ***					
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	1143	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1143	1	P	
3	5	0	4143350	RADIATION PHYSICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4143360	BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING	P	*** NO EQUIVALENT ***					
3	7	0	4143370	MANUFACTURING PROCESS PRACTICAL	P	*** NO EQUIVALENT ***					
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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Course Code			Course Name							Page ##	
1143			TECHNICIAN X-RAY TECHNOLOGY							116	
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	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	*** NO EQUIVALENT ***					
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	
6	4	0	4143640	NON DESTRUCTIVE TESTING II PRACTICAL	P	1143236241	NON-DESTRUCTIVETESTING-II(SPECIALIZATION)	1143	6	P	
6	5	1	4143651	APPLICATIONS OF X	P	*** NO EQUIVALENT ***					
6	5	2	4143652	BIO MEDICAL INSTRUMENTATION PRACTICAL	P	*** NO EQUIVALENT ***					

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1143			TECHNICIAN X-RAY TECHNOLOGY							117	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	3	4053640	NETWORK SYSTEM MANAGEMENT PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4143660	PROJECT WORK AND INTERNSHIP	P	1143236374	IN-HOUSE PROJECT WORK	1143	6	P	

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1144			AUTOMATION AND ROBOTICS							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	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	1144	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1144	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							119	
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	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	
6	4	0	4049640	CIM PRACTICAL	P	2049235540	CIM & CNC PROGRAMMING	1144	5	P	
6	5	0	4049650	INDUSTRIAL ROBOTICS PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4049660	IIOT PRACTICAL	P		*** NO EQUIVALENT ***				
6	7	0	4049670	PROJECT WORK	P	2049236374	IN-HOUSE PROJECT WORK	1144	6	P	

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1145			BIOMEDICAL ELECTRONICS							120	
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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	*** NO EQUIVALENT ***					
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	1145	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1145	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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1145			BIOMEDICAL ELECTRONICS							121	
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		*** NO EQUIVALENT ***				
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		*** NO EQUIVALENT ***				
5	6	3	4142540	BASICS OF BIOCHEMISTRY PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				
6	4	0	4145640	BIO-MECHANICS PRACTICAL	P	1146235340	DIAGNOSTIC AND THERAPEUTIC EQUIPMENTS***	1145	5	P	
6	5	1	4145651	EMBEDDED SYSTEMS AND IOT PRACTICAL	P		*** NO EQUIVALENT ***				

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1145			BIOMEDICAL ELECTRONICS							122	
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6	5	2	4141661	MICROBIOLOGY PRACTICAL	P		*** NO EQUIVALENT ***				
6	5	3	4040640	COMPUTER HARDWARE SERVICING AND NETWORKING PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4145660	PROJECT WORK	P	1145236374	IN-HOUSE PROJECT	1145	6	P	

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Course Code			Course Name							Page ##	
1146			ECG TECHNOLOGY							123	
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	1146	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1146	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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1146			ECG TECHNOLOGY							124	
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	BIO SIGNALS 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 ***					
6	4	0	4146640	INSTALLATION, SERVICING AND MAINTENANCE OF ECG MACHINES	P	1146235542	INSTALLATION, SERVICING AND TROUBLESHOOTING OF ECG	1146	5	P	
6	5	1	4146651	HUMAN ASSIST DEVICES PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	2	4146652	IOT IN HEALTH CARE PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	3	4146653	BIO-MEDICAL INSTRUMENTATION PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4146660	PROJECT WORK AND INTERNSHIP IN INDUSTRIES AND HOSPITALS	P	1146236374	IN-HOUSE PROJECT	1146	6	P	

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Course Code			Course Name							Page ##	
1202			PRINTING TECHNOLOGY (FULL TIME)							125	
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	1202	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	*** NO EQUIVALENT ***					
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1202	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	*** NO EQUIVALENT ***					
3	6	0	48236	DIGITAL PRE-PRESS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	48237	PRINT PRODUCTION PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	48245	OFFSET MACHINES PRACTICAL	P	*** NO EQUIVALENT ***					

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1202			PRINTING TECHNOLOGY (FULL TIME)							126	
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	
6	4	0	48264	PRINT QUALITY ASSURANCE PRACTICAL	P	1202235541	PRINT QUALITY CONTROL AND TESTING	1202	5	P	
6	5	0	48265	MACHINERY MAINTENANCE PRACTICAL	P	1202236242	PRINTING MACHINERY MAINTENANCE	1202	6	P	
6	6	0	48266	PROJECT WORK AND INTERNSHIP	P	1202236374	FELLOWSHIP	1202	6	P	

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Course Code			Course Name							Page ##	
1214			HOTEL MANAGEMENT AND CATERING TECHNOLOGY (FULL TIME)							127	
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		*** NO EQUIVALENT ***				
1	9	0	48919	HOSPITALITY COMMUNICATION PRACTICAL	P		*** NO EQUIVALENT ***				
1	10	0	489110	FOOD PRODUCTION AND PATESSERIE PRACTICAL	P	1214232620	FOOD PRODUCTION AND PATISSERIE 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	
3	5	0	4214350	QUANTITY FOOD PRODUCTION PRACTICAL	P		*** NO EQUIVALENT ***				
3	6	0	4214360	BEVERAGE SERVICE PRACTICAL	P		*** NO EQUIVALENT ***				
3	7	0	4214370	ADVANCED ACCOMMODATION OPERATION PRACTICAL	P		*** NO EQUIVALENT ***				
3	8	0	4214380	ADVANCED FRONT OFFICE OPERATION PRACTICAL	P		*** NO EQUIVALENT ***				

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Course Code			Course Name							Page ##	
1214			HOTEL MANAGEMENT AND CATERING TECHNOLOGY (FULL TIME)							128	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
3	9	0	4214390	PROPERTY MANAGEMENT SYSTEM (PRACTICAL)	P	*** NO EQUIVALENT ***					
3	10	0	4214311	ENGLISH COMMUNICATION PRACTICAL	P	1214233920	ENGLISH COMMUNICATION	1214	3	P	
4	1	0	4214410	INDUSTRIAL TRAINING	P	1214234173	INDUSTRIAL TRAINING	1214	4	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	
6	5	0	4214650	FRONT OFFICE MANAGEMENT PRACTICAL	P	1214236520	FRONT OFFICE MANAGEMENT	1214	6	P	
6	6	1	4214661	SPECIALIZED CULINARY SKILLS AND MANAGEMENT PRACTICAL	P	1214236621	E-II SPECIALIZED CULINARY SKILLS & MANAGEMENT	1214	6	P	
6	6	2	4214662	SPECIALIZED SERVICE SKILLS MANAGEMENT PRACTICAL	P	1214236622	E-II SPECIALIZED SERVICE SKILLS & MANAGEMENT	1214	6	P	
6	6	3	4214663	SPECIALIZED ACCOMMODATION MANAGEMENT PRACTICAL	P	1214236623	E-II SPECIALIZED ACCOMMODATION MANAGEMENT	1214	6	P	

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1214			HOTEL MANAGEMENT AND CATERING TECHNOLOGY (FULL TIME)							129	
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6	7	0	4214670	FRENCH AND HINDI COMMUNICATION PRACTICAL	P	1214235820	FRENCH & HINDI COMMUNICATION	1214	5	P	
6	8	0	4214680	PROJECT WORK AND INTERNSHIP	P	1214236720	PROJECT WORK AND INTERNSHIP	1214	6	P	

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Course Code			Course Name							Page ##	
1220			MECHANICAL ENGINEERING (TOOL AND DIE) (FULL TIME)							130	
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	1220	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	PH232442	APPLIED PHYSICS - II	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	1220	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	*** NO EQUIVALENT ***					
3	6	0	4022360	MANUFACTURING TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
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)							131	
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		*** NO EQUIVALENT ***				
5	4	3	4020540	PROCESS AUTOMATION PRACTICAL	P		*** NO EQUIVALENT ***				
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		*** NO EQUIVALENT ***				
6	4	1	4020640	SOLID MODELLING PRACTICAL	P		*** NO EQUIVALENT ***				
6	4	2	4020651	INDUSTRIAL ROBOTICS AND 3D PRINTING PRACTICAL	P	1020235545	INDUSTRIAL ROBOTICS	1220	5	P	

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1220			MECHANICAL ENGINEERING (TOOL AND DIE) (FULL TIME)							132	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	4	3	4020550	THERMAL ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4022650	PLASTIC MOULDS PRACTICAL	P	1220235420	PLASTIC MOULD MAKING PRACTICAL	1220	5	P	
6	6	0	4022660	PROJECT WORK AND INTERNSHIP	P	1220236374	IN-HOUSEPROJECT	1220	6	P	

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Course Code			Course Name							Page ##	
1221			MECHANICAL ENGINEERING (REFRIGERATION & AIR-CONDITIONING) (FT)							133	
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	1221	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	*** NO EQUIVALENT ***					
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	1221	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	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
4	5	0	4221450	APPLIED THERMODYNAMICS PRACTICAL	P	*** NO EQUIVALENT ***					

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1221			MECHANICAL ENGINEERING (REFRIGERATION & AIR-CONDITIONING) (FT)							134	
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	
6	4	0	4221640	AUTOMOBILE ENGINEERING AND TRANSPORT AIR CONDIONING	P	1221236244	AUTOMOBILE ENGINEERING	1221	6	P	
6	5	1	4221651	DESIGN OF R AND A C SYSTEM PRACTICAL	P	1221236246	HEAT TRANSFER IN HVAC SYSTEM	1221	6	P	

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1221			MECHANICAL ENGINEERING (REFRIGERATION & AIR-CONDITIONING) (FT)							135	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	5	2	4221652	FOOD PROCESSING AND PRESERVATION PRACTICAL	P	1221235541	HVAC MACHINE SERVICE PRACTICE	1221	5	P	
6	5	3	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1221235544	COMPUTER INTEGRATED MANUFACTURING	1221	5	P	
6	6	0	4020660	PROJECT WORK AND INTERNSHIP	P	1020236374	IN-HOUSE PROJECT	1221	6	P	

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1222			AGRICULTURAL TECHNOLOGY (FULL TIME)							136	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1222	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	1222	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	*** NO EQUIVALENT ***					
3	5	0	4020350	MACHINE DRAWING AND CAD PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4023360	SURVEYING AND LEVELLING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4020370	MEASUREMENTS AND METROLOGY PRACTICAL	P	1020234640	METROLOGY AND MEASUREMENTS	1020	4	P	
4	5	0	4023450	MECHANICAL TESTING & FLUID POWER PRACTICAL	P	1023234520	FLUID MECHANICS PRACTICAL	1222	4	P	

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1222			AGRICULTURAL TECHNOLOGY (FULL TIME)							137	
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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	
6	4	0	4023640	FARM MACHINERY PRACTICAL	P	1023235520	FARM MACHINERY PRACTICAL	1222	5	P	
6	5	0	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4023660	PROJECT WORK AND INTERNSHIP	P	1023236374	IN-HOUSE PROJECT WORK	1222	6	P	

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1223			FASHION TECHNOLOGY (FULL TIME)							138	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1223	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	1223	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	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
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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1223			FASHION TECHNOLOGY (FULL TIME)							139	
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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	
6	4	0	4065640	FASHION CONCEPTS AND DESIGN PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4065650	FASHION CAD PRACTICAL	P	1066236241	FASHION DRAPING	1223	6	P	
6	6	0	4065650	FASHION CAD PRACTICAL	P	1223236374	IN-HOUSEPROJECT	1223	6	P	

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1224			TEXTILE TECHNOLOGY (TEXTILE DESIGN AND WEAVING)							140	
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	1224	1	P	
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	*** NO EQUIVALENT ***					
2	7	0	40007	ENGINEERING CHEMISTRY PRACTICAL	P	*** NO EQUIVALENT ***					
2	8	0	40028	BASICS OF INDUSTRIES AND WORKSHOP PRACTICAL	P	WP231360	BASIC WORKSHOP PRACTICES	1224	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	*** NO EQUIVALENT ***					
3	5	0	4224350	BASICS OF TEXTILE DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4224370	WEAVING PREPARATORY PRACTICAL	P	*** NO EQUIVALENT ***					
4	5	0	4224450	COLOUR AND WEAVE EFFECTS PRACTICAL	P	1224234640	COLOUR AND WEAVE EFFECTS	1224	4	P	

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1224			TEXTILE TECHNOLOGY (TEXTILE DESIGN AND WEAVING)							141	
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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 ***					
6	4	0	4224640	GARMENT PRODUCTION PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4224650	MODERN WEAVING TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4224660	PROJECT WORK AND INTERNSHIP	P	*** NO EQUIVALENT ***					

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1225			TEXTILE TECHNOLOGY (MAN MADE FIBRE)							142	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	1225	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	1225	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	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4225370	SCIENCE OF NATURAL FIBRE PRACTICAL	P	*** NO EQUIVALENT ***					
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)							143	
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	
6	4	0	4225640	TECHNOLOGY OF FINISHING OF NATURAL AND MAN MADE TEXTILES	P	1225235441	TEXTILE FINISHING FOR NATURAL AND MAN MADE TEXTILES	1225	5	P	
6	5	0	4225650	GARMENT MANUFACTURING TECHNOLOGY II PRACTICAL	P	1225236241	GARMENT CONSTRUCTION	1225	6	P	
6	6	0	4225660	PROJECT WORK AND INTERNSHIP	P	1225236374	IN-HOUSEPROJECT**	1225	6	P	

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Course Code			Course Name							Page ##	
1226			APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)(FULL TIME)							144	
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	1226	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	1226	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	*** NO EQUIVALENT ***					
3	6	0	4066360	APPAREL DESIGNING PRACTICAL	P	*** NO EQUIVALENT ***					
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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Course Code			Course Name							Page ##	
1226			APPLIED ARTS AND CRAFTS (FASHION AND APPAREL DESIGN)(FULL TIME)							145	
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	
6	4	0	4065640	FASHION CONCEPTS AND DESIGN PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4065650	FASHION CAD PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4065660	PROJECT WORK AND INTERNSHIP	P	1226236374	IN-HOUSEPROJECT	1226	6	P	

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Course Code			Course Name						Page ##	
2010			CIVIL ENGINEERING (SANDWICH)						146	
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	2010	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	2010	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		0	0	
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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Course Code			Course Name							Page ##	
2010			CIVIL ENGINEERING (SANDWICH)							147	
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	
6	5	0	4010440	HYDRAULICS LABORATORY	P	1010233540	HYDRAULICS	2010	3	P	
6	6	0	4010470	SURVEYING PRACTICE – II	P	1010233340	SURVEYING PRACTICE	2010	3	P	
6	7	1	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234640	ESTIMATION AND COSTING	2010	5	P	

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2010			CIVIL ENGINEERING (SANDWICH)							148	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	7	2	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234640	ESTIMATION AND COSTING	2010	5	P	
6	7	3	4010653	WATER RESOURCES ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					

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2020			MECHANICAL ENGINEERING (SANDWICH)						149	
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	2020	1	P
2	6	0	40006	ENGINEERING PHYSICS PRACTICAL	P	1076233320	MOMENTUM TRANSFER PRACTICAL*	1070	3	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	2020	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	1020234640	METROLOGY AND MEASUREMENTS	2020	5	P
4	2	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	1020234320	ADVANCED MANUFACTURING TECHNOLOGY PRACTICAL	2020	5	P
4	3	0	4020480	INDUSTRIAL TRAINING I	P	2020234274	INDUSTRIAL TRAINING (SW)	2020	4	P

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Course Code			Course Name							Page ##	
2020			MECHANICAL ENGINEERING (SANDWICH)							150	
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	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
6	6	0	4020540	PROCESS AUTOMATION PRACTICAL	P	1020236244	PROCESS AUTOMATION	2020	6	P	
6	7	0	4020640	SOLID MODELLING PRACTICAL	P	1020236245	PRODUCT DESIGN & DEVELOPMENT	2020	6	P	
6	8	1	4020651	INDUSTRIAL ROBOTICS AND 3D PRINTING PRACTICAL	P	1020235545	INDUSTRIAL ROBOTICS	2020	6	P	
6	8	2	4020652	REFRIGERATION AND AIR CONDITIONING PRACTICAL	P	1020235546	HVAC SYSTEMS AND COMPONENTS	2020	6	P	

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2020			MECHANICAL ENGINEERING (SANDWICH)							151	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	8	3	4020653	AUTOMOBILE TECHNOLOGY PRACTICAL	P	1020235547	AUTOMOBILE TECHNOLOGY	2020	6	P	

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2021			MECHANICAL ENGINEERING (FOUNDRY) (SANDWICH)							152	
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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	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
3	7	0	4922370	SOLID MECHANICS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	8	0	4921380	SAND TESTING AND METALLURGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	1	0	4921410	METROLOGY AND METALLOGRAPHY PRACTICAL	P	*** NO EQUIVALENT ***					

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2021			MECHANICAL ENGINEERING (FOUNDRY) (SANDWICH)							153	
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	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	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
6	6	0	4022650	PLASTIC MOULDS PRACTICAL	P	*** NO EQUIVALENT ***					
6	7	0	4020540	PROCESS AUTOMATION PRACTICAL	P	*** NO EQUIVALENT ***					

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2021			MECHANICAL ENGINEERING (FOUNDARY) (SANDWICH)							154	
Semester	Column Number	Elec	SubCode (N/Z)	Subject Name (N/Z)	Type	SubCode (R2023)	Subject Name (R2023)	Course (R2023)	Semester (R2023)	Type	
6	8	1	4921681	THERMAL EQUIPMENT PERFORMANCE PRACTICAL	P	2021236540	HEAT POWER ENGINEERING	2021	6	P	
6	8	2	4022560	PRESS TOOLS PRACTICAL	P	*** NO EQUIVALENT ***					
6	8	3	4020563	MECHATRONICS PRACTICAL	P	*** NO EQUIVALENT ***					

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2022			MECHANICAL ENGINEERING (MACHINE TOOL MAINTENANCE & REPAIRS) (SWC)							155	
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	2022	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	2022	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	*** NO EQUIVALENT ***					
3	7	0	4922370	SOLID MECHANICS AND FLUID MECHANICS PRACTICAL	P	*** NO EQUIVALENT ***					
3	8	0	4922380	INDUSTRIAL EQUIPMENTS AND METROLOGY PRACTICAL	P	*** NO EQUIVALENT ***					
4	1	0	4922410	MAINTENANCE I LAB	P	*** NO EQUIVALENT ***					

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2022			MECHANICAL ENGINEERING (MACHINE TOOL MAINTENANCE & REPAIRS) (SWC)							156	
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		*** NO EQUIVALENT ***				
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	
6	6	0	4922650	CNC SIMULATION LAB	P	2022235440	CNC SIMULATION LAB	2022	5	P	
6	7	0	4020540	PROCESS AUTOMATION PRACTICAL	P		*** NO EQUIVALENT ***				
6	8	0	4922660	MAINTENANCE II LAB	P		*** NO EQUIVALENT ***				

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2023			AUTOMOBILE ENGINEERING (SANDWICH)							157	
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	2023	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	2023	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	1020234640	METROLOGY AND MEASUREMENTS	2023	5	P	
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)							158	
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		*** NO EQUIVALENT ***				
5	6	0	4021550	ENGINE TESTING AND EMISSION MEASUREMENT PRACTICAL	P		*** NO EQUIVALENT ***				
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		*** NO EQUIVALENT ***				
5	8	2	4021562	TRACTOR AND FARM EQUIPMENT PRACTICAL	P		*** NO EQUIVALENT ***				
5	8	3	4021563	INDUSTIRAL AUTOMATION PRACTICAL	P		*** NO EQUIVALENT ***				
6	6	0	4021640	HYBRID ELECTRICAL VEHICLE PRACTICAL	P	1021236246	ELECTRICALVEHICLETECHNOLOGYP RACTICAL	1021	6	P	
6	7	0	4021460	AUTOMOTIVE ELECTRICAL AND ELECTRONICS SYSTEMS PRACTICAL	P		*** NO EQUIVALENT ***				
6	8	0	4020561	COMPUTER INTEGRATED MANUFACTURING PRACTICAL	P	1020235541	CNC PROGRAMMING	1020	5	P	

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Course Code			Course Name							Page ##	
2030			ELECTRICAL AND ELECTRONICS ENGINEERING(SANDWICH)							159	
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	*** NO EQUIVALENT ***					
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	*** NO EQUIVALENT ***					
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)							160	
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 ***					
6	5	0	4030540	COMPUTER AIDED ELECTRICAL DRAWING PRACTICAL	P	1030234440	ELECTRICAL CAD DESIGN	1030	4	P	
6	6	0	4040550	MICROCONTROLLER PRACTICAL	P	1030234340	MICROCONTROLLER AND EMBEDDED SYSTEMS	2030	5	P	
6	7	0	4030651	POWER ELECTRONICS PRACTICAL	P	1030235340	POWER ELECTRONICS	1030	5	P	
6	8	0	4040570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1030235654	INNOVATION AND START-UPS	1030	5	P	

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Course Code			Course Name							Page ##	
2047			MECHATRONICS ENGINEERING (SANDWICH)							161	
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	2047	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	2047	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	*** NO EQUIVALENT ***					
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)							162	
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 ***					
6	5	0	4047640	CNC PRACTICAL	P	1047235440	CIM & CNC PROGRAMMING	2047	6	P	
6	6	0	4047550	ROBOTICS PRACTICAL	P	1047235320	ROBOTICS PRACTICAL	2047	6	P	
6	7	1	4047654	PROCESS CONTROL PRACTICAL	P	1047235230	CONTROL SYSTEM FOR MECHATRONICS	2047	5	PT	

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2049			MECHATRONICS ENGINEERING (SANDWICH)							163	
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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)							164	
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	*** NO EQUIVALENT ***					
3	5	0	4060350	YARN MANUFACTURE - I PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4060360	FABRIC MANUFACTURE - I PRACTICAL	P	*** NO EQUIVALENT ***					
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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2060			TEXTILE TECHNOLOGY (SANDWICH)							165	
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 ***					
6	4	1	4060640	GARMENT MANUFACTURING PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	2	4060650	TEXTILE PRODUCT COSTING PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	3	4060660	PROJECT WORK AND INTERNSHIP	P	*** NO EQUIVALENT ***					

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2061			TEXTILE PROCESSING (SANDWICH)							166	
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	4061340	FIBRE AND CHEMICAL ANALYSIS PRACTICAL	P	*** NO EQUIVALENT ***					
3	5	0	4061350	PRETREATMENT FOR TEXTILE COLOURATION PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4061360	DYEING OF NATURAL FIBRES PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4061370	QUALITY ASSURANCE IN PRETREATMENT AND DYEING	P	*** NO EQUIVALENT ***					
4	5	0	4061450	TEXTILE MANUFACTURING TECHNOLOGY PRACTICAL	P	*** NO EQUIVALENT ***					

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2061			TEXTILE PROCESSING (SANDWICH)							167	
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4	6	0	4061460	DYEING OF MANMADE FIBRES AND BLENDS PRACTICAL	P		*** NO EQUIVALENT ***				
4	7	0	4061470	TECHNOLOGY OF TEXTILE FINISHING PRACTICAL	P		*** NO EQUIVALENT ***				
5	4	0	4061540	TEXTILE TESTING PRACTICAL	P		*** NO EQUIVALENT ***				
5	5	0	4061550	TECHNOLOGY OF TEXTILE PRINTING PRACTICAL	P		*** NO EQUIVALENT ***				
5	6	0	4061560	QUALITY ASSURANCE IN PRINTING AND FINISHING PRACTICAL	P		*** NO EQUIVALENT ***				
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P		*** NO EQUIVALENT ***				
6	4	0	4061640	GARMENT MANUFACTURE PRACTICAL	P	1061235441	CLOTHING TECHNOLOGY	1061	5	P	
6	5	0	4061650	SHADE MATCHING IN DYEING AND PRINTING PRACTICAL	P	1061235541	SHADE MATCHING IN DYEING AND PRINTING	1061	5	P	
6	6	0	4061660	PROJECT WORK AND INTERNSHIP	P	1061236374	IN-HOUSE PROJECT	1061	6	P	

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2074			POLYMER TECHNOLOGY (SANDWICH)							168	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	2074	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	2074	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	*** NO EQUIVALENT ***					
3	5	0	4974350	POLYMER SCIENCE PRACTICAL	P	*** NO EQUIVALENT ***					
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4974370	COMPUTER AIDED DESIGN PRACTICAL	P	*** NO EQUIVALENT ***					
4	4	0	4974440	CHEMICAL ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					

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2074			POLYMER TECHNOLOGY (SANDWICH)							169	
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4	5	0	4974450	POLYMER PROCESS MEASUREMENT AND CONTROL PRACTICAL	P	*** NO EQUIVALENT ***					
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	
6	4	0	4974640	POLYMER TESTING PRACTICAL	P	2074235440	POLYMER TESTING	2074	5	P	

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6	5	1	4974651	POLYMER MOULD ENGINEERING PRACTICAL	P	2074235540	POLYMER MOULD DESIGN	2074	5	P	
6	5	2	4974652	PACKAGING TECHNOLOGY PRACTICAL	P	2074235440	POLYMER TESTING	2074	5	P	
6	5	3	4974653	POLYMER PRODUCT QUALITY CONTROL PRACTICAL	P	2074234420	POLYMER PROCESSING PRACTICAL	2074	4	P	
6	6	0	4974660	PROJECT WORK AND INTERNSHIP	P	2074236320	IN-HOUSE PROJECT / INTERNSHIP / FELLOWSHIP	2074	6	P	

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2079			CHEMICAL ENGINEERING (SANDWICH))							171	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	2079	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	2079	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	*** NO EQUIVALENT ***					
3	6	0	4076360	GENERAL ENGINEERING PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4076370	MOMENTUM TRANSFER PRACTICAL	P	*** NO EQUIVALENT ***					
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))							172	
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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	
6	4	0	4076640	MASS TRANSFER PRACTICAL	P	1076235420	MASS TRANSFER PRACTICAL*	2079	5	P	
6	5	0	4076650	CHEMICAL CAD PRACTICAL	P	1076233420	CHEMICAL CAD PRACTICAL*	2079	3	P	
6	6	0	4076660	PROJECT WORK AND INTERNSHIP	P	1076236352		2079	6		

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2080			CERAMIC TECHNOLOGY(SANDWICH)							173	
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	2080	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	2080	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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Course Code			Course Name							Page ##	
2080			CERAMIC TECHNOLOGY(SANDWICH)							174	
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	4980470	CERAMIC PROCESSING LABORATORY	P	2080234440	CERAMIC FABRICATION LABORATORY	2080	4	P	
5	4	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	2080235460	INNOVATION & STARTUP	2080	5	P	
5	5	0	4980550	SLIP TESTING LABORATORY	P	2080235252	SLIP TESTING LABORATORY	2080	5	P	
5	6	0	4980560	REFRACTORIES LABORATORY	P	2080235240	REFRACTORIES LABORATORY	2080	5	P	
5	7	0	4980570	CERAMIC BODY PREPARATION LABORATORY	P	2080235251	CERAMIC BODY PREPARATION LABORATORY	2080	5	P	
6	4	0	4980640	GLAZE LABORATORY	P	2020235430		0	0		
6	5	0	4980650	ENAMEL LABORATORY	P	2080235253	ENAMEL LABORATORY	2080	5	P	
6	6	0	4980660	PROJECT WORK REPORT AND INTERNSHIP	P	2080236374		0	0		

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Course Code			Course Name							Page ##	
2101			LEATHER TECHNOLOGY (SANDWICH)							175	
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	2101	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	2101	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	*** NO EQUIVALENT ***					
3	6	0	4090360	PRE-TANNING PROCESS PRACTICAL	P	*** NO EQUIVALENT ***					
3	7	0	4090370	HEAVY LEATHER MANUFACTURE PRACTICAL	P	*** NO EQUIVALENT ***					
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)							176	
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	4090470	LEATHER FINISHING PRACTICAL	P	*** NO EQUIVALENT ***					
5	1	0	4090510	INDUSTRIAL TRAINING REPORT AND ASSESSMENT	P	2101235120	INDUSTRIAL TRAINING	2101	5	P	
6	4	0	4090640	CHEMICAL TESTING OF LEATHER PRACTICAL	P	2101236440	CHEMICAL TESTING OF LEATHER	2101	6	P	
6	5	0	4020650	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	*** NO EQUIVALENT ***					
6	6	0	4090660	LEATHER PRODUCT FABRICATION PRACTICAL	P	2101234640	LEATHER GOODS AND GARMENT TECHNOLOGY	2101	4	P	
6	7	0	4090670	PHYSICAL TESTING PRACTICAL	P	2101237440	PHYSICAL TESTING OF LEATHER	2101	7	P	

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Course Code			Course Name							Page ##	
2149			ROBOTICS AND AUTOMATION ENGINEERING (SANDWICH)							177	
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	2149	1	P	
2	9	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	2149	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 ***					
3	8	0	4049450	PROGRAMMING IN C PRACTICAL	P	*** NO EQUIVALENT ***					
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)							178	
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	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	
6	5	0	4049560	MICROCONTROLLER PRACTICAL	P	2049234640	MICROCONTROLLERS AND APPLICATIONS	2149	5	P	
6	6	0	4049640	CIM PRACTICAL	P	2049235540	CIM & CNC PROGRAMMING	2149	6	P	
6	7	0	4049650	INDUSTRIAL ROBOTICS PRACTICAL	P	*** NO EQUIVALENT ***					
6	8	0	4049660	IIOT PRACTICAL	P	*** NO EQUIVALENT ***					

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3010			CIVIL ENGINEERING (PART TIME)							179	
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	1010233640	MATERIAL TESTING LAB	3010	5	P	
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	3010	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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3010			CIVIL ENGINEERING (PART TIME)							180	
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6	3	0	4010550	ENVIRONMENTAL ENGINEERING LABORATORY	P	1010235540	ENVIRONMENTAL ENGINEERING	3010	7	P	
6	4	0	4010540	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL II	P	*** NO EQUIVALENT ***					
6	5	0	4010450	MATERIAL TESTING LABORATORY – II	P	1010233640	MATERIAL TESTING LAB	3010	5	P	

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3020			MECHANICAL ENGINEERING (PART TIME)							181	
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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	1020234640	METROLOGY AND MEASUREMENTS	3020	6	P	
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	3020	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	*** NO EQUIVALENT ***					
6	4	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	1020234320	ADVANCED MANUFACTURING TECHNOLOGY PRACTICAL	3020	6	P	

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Course Code			Course Name							Page ##	
3020			MECHANICAL ENGINEERING (PART TIME)							182	
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6	5	0	4020470	ELECTRICAL DRIVES AND CONTROL PRACTICAL	P	1020233440	INDUSTRIAL DRIVES AND CONTROL	3020	4	P	

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Course Code			Course Name							Page ##	
3030			ELECTRICAL AND ELECTRONICS ENGINEERING (PART TIME)							183	
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	1030233620	ELECTRICAL MACHINES I PRACTICAL	3030	4	P	
4	4	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	3030	1	P	
4	5	0	4030360	ELECTRICAL WORK SHOP PRACTICAL	P	1030234540	SERVICING OF ELECTRICAL APPLIANCES	3030	6	P	
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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3030			ELECTRICAL AND ELECTRONICS ENGINEERING (PART TIME)							184	
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6	4	0	4040460	ANALOG AND DIGITAL ELECTRONICS PRACTICAL	P	1030233440	ANALOG AND DIGITAL ELECTRONICS	3030	4	P	
6	5	0	4030470	ELECTRICAL CIRCUITS AND SIMULATION PRACTICAL	P	*** NO EQUIVALENT ***					

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3040			ELECTRONICS AND COMMUNICATION ENGINEERING (PART TIME)							185	
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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	*** NO EQUIVALENT ***					
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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3040			ELECTRONICS AND COMMUNICATION ENGINEERING (PART TIME)							186	
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6	3	0	40001	COMMUNICATION SKILL PRACTICAL	P	EN231350	COMMUNICATIVE ENGLISH I	3000	2	P	
6	4	0	4040540	ANALOG AND DIGITAL COMMUNICATION PRACTICAL	P	*** NO EQUIVALENT ***					
6	5	0	4040550	MICROCONTROLLER PRACTICAL	P	*** NO EQUIVALENT ***					

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7010			CIVIL ENGINEERNG (TAMIL MEDIUM)							187	
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1	6	0	40002	COMPUTER APPLICATION PRACTICAL	P	DS231270	DIGITAL WORKPLACE SKILLS	7010	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	7010	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 ENGINEERING (TAMIL MEDIUM)							188	
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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	
6	4	0	4010640	COMPUTER APPLICATIONS IN CIVIL ENGINEERING PRACTICE	P	1010235320	COMPUTER APPLICATIONS IN CIVIL ENGINEERING.	7010	5	P	
6	5	1	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234630		0	0		

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7010			CIVIL ENGINEERNG (TAMIL MEDIUM)							189	
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6	5	2	4010651	ESTIMATION AND COSTING LABORATORY	P	1010234630		0	0		
6	5	3	4010653	WATER RESOURCES ENGINEERING LABORATORY	P	*** NO EQUIVALENT ***					
6	6	0	4010660	PROJECT WORK AND INTERNSHIP	P	1010236374	IN-HOUSE PROJECT	7010	6	P	

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DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI - 600 025
BOARD EXAMINATIONS :: APRIL 2026
DRAFT EQUIVALENCE OF PRACTICAL SUBJECTS (N/Z SCHEME TO R2023)

Course Code			Course Name							Page ##	
7020			MECHANICAL ENGINEERING (TAMIL MEDIUM)							190	
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	7020	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	7020	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	2021233440	STRENGTH OF MATERIALS AND FLUID MECHANICS	2021	3	P	
4	6	0	4020460	MANUFACTURING TECHNOLOGY II PRACTICAL	P	*** NO EQUIVALENT ***					

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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	*** NO EQUIVALENT ***					
5	7	0	4020570	ENTREPRENEURSHIP AND STARTUPS PRACTICAL	P	1020235654	INNOVATION & STARTUP	7020	5	P	
6	4	0	4020640	SOLID MODELLING PRACTICAL	P	1020236245	PRODUCT DESIGN & DEVELOPMENT	7020	6	P	
6	5	1	4020651	INDUSTRIAL ROBOTICS AND 3D PRINTING PRACTICAL	P	1020235545	INDUSTRIAL ROBOTICS	7020	5	P	
6	5	2	4020652	REFRIGERATION AND AIR CONDITIONING PRACTICAL	P	1020235546	HVAC SYSTEMS AND COMPONENTS	7020	5	P	

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6	5	3	4020653	AUTOMOBILE TECHNOLOGY PRACTICAL	P	1020235547	AUTOMOBILE TECHNOLOGY	7020	5	P	
6	6	0	4020660	PROJECT WORK AND INTERNSHIP	P	1020236374	IN-HOUSE PROJECT	7020	6	P	

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