

Courses Mapped with SDGs

Biotech	20BT3068	Metabolic Engineering for Industrial Production							25	75							
Biotech	20BT3069	Human Anatomy, Physiology and Health Education		25	60												
Biotech	20BT3070	Vaccine Technology							25	75							
Digital Sciences	20CA2017	Fundamentals of Business Analytics									25	25					
Digital Sciences	20CA2018	Big Data Analytics															
Digital Sciences	20CA2019	Big Data Analytics Lab															
Digital Sciences	20CA2020	Data Mining and Data Warehousing															
Digital Sciences	20CA2021	Data Analysis and Visualization															
Digital Sciences	20CA2022	Data Visualization Lab															
Digital Sciences	20CA2023	Machine Learning			60												
Digital Sciences	20CA2024	Machine Learning Lab			60												
Digital Sciences	20CA2027	Professional Ethics			50	44.4			20		33.3						22.2
Digital Sciences	20CA2029	Artificial Intelligence for Data Science			50												
Digital Sciences	20CA2045	Security of Web Applications			70				10								
Digital Sciences	20CA2046	Data Mining in Cyber Security			60				20								
Digital Sciences	20CA2047	Email and Mobile Forensics			60				20								
Digital Sciences	20CA2048	Python for Network and Security			50				30								
Digital Sciences	20CA2049	Python for Network and Security Lab															
Digital Sciences	20CA2050	Cloud Security			50				10								
Digital Sciences	20CA2051	Cloud Security Lab															
Digital Sciences	20CA2052	Information Security Ethics			50	44.4			20		33.3						22.2
Digital Sciences	20CA3003	Network Security			60				10								
Digital Sciences	20CA3026	Machine Learning and Data Analytics			60												
Civil	20CE1001	Building Science and							25	75			20				
Civil	20CE1003	Green Design and Life Cycle Assessment						13	30			17	20		20		
Civil	20CE1007	Design Studio - 3D Modelling															
Civil	20CE2001	Surveying and Geomatics Engineering							25	75							
Civil	20CE2002	Mechanics of Solids															
Civil	20CE2003	Fluid Mechanics and															
Civil	20CE2004	Soil Mechanics and Foundation Engineering							25	75							
Civil	20CE2005	Water Supply and Sanitary Engineering							25	75							

CSE	20CS2034	Neural Networks and Deep Learning		60									
CSE	20CS2037	Optimization Methodologies		100									
CSE	20CS2039	Principles of Industry 4.0		100									
CSE	20CS2043	Real Time Data Streaming		60									
CSE	20CS2044	Reinforcement Learning		60									
CSE	20CS2046	Robotic Process Automation		100									
CSE	20CS2047	Robotics		100									
CSE	20CS2050	Software Engineering		100			25	75					
CSE	20CS2052	System Administration		100									
CSE	20CS2054	Theory of Computation		100									
CSE	20CS2056	Web Technology		80			25	75					
CSE	20CS2057	Fundamentals of Web Design		100									
CSE	20CS2058	Basics of Data Analytics - R Programming and Tableau											
CSE	20CS3006	Applications of Cyber Physical Systems		100									
ECE	20EC1001	Python Programming		100									
ECE	20EC1002	R programming											
ECE	20EC1004	C Programming Laboratory											
ECE	20EC1005	Electronics For Intelligent Machines Laboratory											
ECE	20EC2001	Electronic Measurement											
ECE	20EC2002	Electronic Devices		80									
ECE	20EC2003	Signals and Systems		100									
ECE	20EC2004	Computer Architecture		100									
ECE	20EC2005	IoT for Communication		46.7			13.3	25					
ECE	20EC2006	IoT for Communication Engineering Laboratory		46.7			13.3	25					
ECE	20EC2007	ARM Processor Laboratory											
ECE	20EC2008	5G Communications		60			20						
ECE	20EC2016	Building Automation Systems Laboratory											
ECE	20EC2017	Media Laboratory		100									
ECE	20EC3002	Low Power VLSI Design		60		20							
ECE	20EC3007	Bio Mems	20										
EEE	20EE1001	Basic Electrical and Computer Engineering					25	75					
EEE	20EE1002	Basic Electrical and Computer Engineering Laboratory					25	75					
English	20EN2001	Communication Skills in English		60			20						
Food	20FP2017	Material Science for Food											
Food	20FP2018	Heat and Mass Transfer		80		20							
Food	20FP2019	Unit Operations in Food Processing - II											
Food	20FP2020	Milling Technology of Cereals, Pulses and Oil seeds	100				25	75					
Food	20FP2021	Food Standards and	20	50									
Food	20FP2022	Food Enzymology Lab											
Food	20FP2023	Food Product Technology Lab					25	75					
Food	20FP2024	Food Analysis Lab - II											
Food	20FP2025	Engineering Properties of Biological Materials		46.7			13.3	25					
Food	20FP2026	Engineering Properties of Biological Materials Lab		46.7			13.3	25					
Food	20FP2027	Food Packaging Technology					25	75					

Forensic	20FS2020	Fundamentals of Forensic Psychology													
Forensic	20FS2023	Forensic Medicine	20												
Forensic	20FS2024	Forensic Anthropology and Odontology	10		40										
Forensic	20FS2026	Forensic Biology and Serology		20											
Forensic	20FS3013	Microscopy in Forensic													
Maths	20MA1005	Mathematical Foundations of Computing			80										
Maths	20MA1007	Elementary Mathematics			100										
Maths	20MA1013	Equations for Robotic			80				25	75					
Maths	20MA1014	Linear Algebra, Transforms and Numerical Methods for Robot Control			80										
Maths	20MA1017	Basics of Calculus and Linear Algebra			80										
Maths	20MA1019	Mathematics for Data Science and Machine Learning in Civil Engineering			46.7				13.3	25					
Maths	20MA1020	Mathematical Modelling for Civil Engineering Problems			80				25	75					
Maths	20MA2006	Probability and Stochastic Processes			80										
Maths	20MA2008	Random Process for Robotic			80				25	75					
Maths	20MA2026	Numerical Mathematics and Computing			80										
Maths	20MA3001	Probability and Biostatistics	20	80											
Mech	20ME1001	Materials Engineering			100				25	75					
Mech	20ME1007	3D Printing Technology			100				25	75					
Mech	20ME1008	Dynamics and Vibration			100										
Mech	20ME2002	CNC Programming			100										
Mech	20ME2004	Design of Medical Devices and Implants		20											
Mech	20ME2005	Computational Fluid Dynamics Laboratory			100										
Mech	20ME2007	Automation of Product Life Cycle Management			100				25	25					
Mech	20ME2009	Intelligent Robotic System													
Mech	20ME2010	Kinematics and Dynamics of Machinery			100										
Mech	20ME2011	Finite Element Methods in Engineering			100				25	75					
Mech	20ME2012	Internet of Things for Mechanical Systems			100				25	75					
Mech	20ME2013	Sensor Technology for							25	75					
Mech	20ME2017	Automotive Materials and Electronics			100										
Mech	20ME3001	Additive Manufacturing Technologies			100										
Mech	20ME3008	Non-Destructive Testing and Inspection			100										
Mech	20ME3009	New-Age Materials			100										
Management	20MS2002	Modeling for Business Plan							25	25					

CSE	21CS3003	Artificial Intelligence and Machine Learning			60														
CSE	21CS3009	Information Security Management System			80					20	25	25							
ECE	21EC1006	Introduction to Computer Engineering			100					25	75								
ECE	21EC2001	Object Oriented Programming in C++			100														
ECE	21EC2002	Object Oriented Programming in C++ Laboratory																	
ECE	21EC2003	Electronic Devices and			60					20									
ECE	21EC2004	Electronic Devices and Circuits Laboratory																	
ECE	21EC2005	Operating Systems			100														
ECE	21EC2006	Mathematics for Signal			100														
ECE	21EC2007	Data Structures and			100														
ECE	21EC2008	Data Structures Laboratory																	
ECE	21EC2009	Fundamentals of JAVA Programming			100														
ECE	21EC2010	Linear Integrated Circuits			60					20									
ECE	21EC2011	Analog Electronics			60					20									
ECE	21EC2014	Microprocessors and Microcontrollers																	
ECE	21EC2015	Web Technology			80					25	75								
ECE	21EC2016	Internet of Things																	
ECE	21EC2017	Internet of Things Laboratory																	
ECE	21EC2018	Machine Learning			60														
ECE	21EC2019	System Software and Compiler Design																	
ECE	21EC2020	Data Communication			60														
ECE	21EC2023	Cyber Security																	
ECE	21EC2024	Cloud and Distributed																	
ECE	21EC2025	Neural Networks and Deep Learning			60														
ECE	21EC2026	Machine Learning Laboratory			60														
ECE	21EC2027	Linux Programming			100														
ECE	21EC2029	High Performance Computing																	
ECE	21EC2031	Semantic Modeling and its Applications																	
ECE	21EC2032	Computer Vision			80					10									
ECE	21EC2033	Embedded System Design																	
ECE	21EC2034	Cyber Physical Systems																	
English	21EN3006	American Literature																	
English	21EN3009	Literary Theory and Criticism			50														
English	21EN3010	Gender Studies in Literature				44.4							33.3						22.2
English	21EN3012	Christian Literature			50	30													
English	21EN3013	Post-colonial Literature																	
English	21EN3016	Research Methodology			50														
English	21EN3019	Creative Writing																	
Agriculture	21HO1251	Fundamentals of Horticulture	20	20															
Agriculture	21HO1270	Production Technology for Fruit and Plantation Crops								25	75								
Agriculture	21HO2271	Production Technology for Vegetables and Spices	20	20						25	75			10					
Agriculture	21HO2272	Production Technology for Ornamental Crops, MAP and Landscaping	20	20						25	75			10					

ECE	22EC1004	Fundamentals of Electrical and Electronics Engineering			50			30	25	75				
ECE	22EC2002	Social Media Analytics												
ECE	22EC2004	Data Visualization Techniques												
ECE	22EC2005	Pattern Recognition			80									
ECE	22EC2006	Deep Learning			60									
ECE	22EC2007	Natural Language Processing			100									
ECE	22EC2008	Introduction to Human Computer Interaction												
ECE	22EC2010	Electromagnetics and Radiation Laboratory												
ECE	22EC2013	Digital System Design												
ECE	22EC2014	Digital System Design												
ECE	22EC2015	Communication Theory and Systems			60									
ECE	22EC2016	Digital Communication			60									
ECE	22EC2018	Signal Processing and its Applications												
ECE	22EC2019	Signal Processing Laboratory												
ECE	22EC2020	FPGA Based System Design												
ECE	22EC2022	Building the Web of Things												
ECE	22EC2023	IoT Security and Trust			60			10						
ECE	22EC2024	Cognitive IoT												
ECE	22EC2025	Energy Harvesting for IoT						13			17	20		20
ECE	22EC2026	IoT Data Analytics			50			20						
ECE	22EC2027	Brain Computer Interface												
ECE	22EC2028	Computational Intelligence Laboratory												
ECE	22EC2029	Data Analytics Laboratory												
ECE	22EC2030	Computational Intelligence												
ECE	22EC2031	Cognitive IoT Laboratory												
ECE	22EC2032	Analog Circuits Laboratory												
ECE	22EC3004	Graph Theory and			70									
ECE	22EC3005	Testing and Testability			70									
ECE	22EC3006	CAD for VLSI Circuits												
ECE	22EC3007	Reconfigurable Computing												
ECE	22EC3008	Machine Learning for Communication Systems			60									
ECE	22EC3009	5G and Beyond			60									
ECE	22EC3010	Machine Learning for			60									
Food	22FP2047	Smart Sensors for Food Industries Laboratory												
Food	22FP2048	IoT and Deep Learning for Food Quality			60									
Food	22FP2049	Data Analytics for Food Supply Chain												
Food	22FP2050	Intelligent Food Industries												
Forensic	22FS2001	Laboratory Management and								25	25			
Forensic	22FS2002	Instrumental Methods in		20										
Food	22FT3001	Food Chemistry		20										
Food	22FT3002	Food and Industrial		20										
Food	22FT3003	Principles of Food												
Food	22FT3004	Technology of Cereals, Pulses and Oilseeds							25	75				
Food	22FT3005	Technology of Fruits and Vegetable Processing							25	75				

Robotics	22RO2008	Vision and Image Processing Laboratory													
Robotics	22RO2011	Robotic Process Automation		30				20							
Robotics	22RO3001	Advanced Robotics													
Robotics	22RO3005	Real-Time Operating System													
Aerospace	23AE1001	Engineering and Aviation Industry			23.5			11.8	35.3	17.6					11.8
Aerospace	23AE2001	Introduction to Aerospace Engineering						25	75						
Aerospace	23AE2002	Engineering Mechanics						25	75						
Aerospace	23AE2003	CAD for Aerospace Engineers						25	75						
Aerospace	23AE2004	Basics of Fluid Mechanics													
Aerospace	23AE2005	Fluid Mechanics Laboratory													
Aerospace	23AE2006	Strength of Materials													
Aerospace	23AE2007	Strength of Materials													
Aerospace	23AE2008	Engineering Thermodynamics						25	75						
Aerospace	23AE2009	Thermodynamics Laboratory													
Aerospace	23AE2010	Introduction to Aerospace						25	75						
Aerospace	23AE2011	Aerospace Structures-I						25	75						
Aerospace	23AE2012	Propulsion-I													
Aerospace	23AE2013	Aircraft Instrumentation and Avionics													
Aerospace	23AE2014	Aerodynamics													
Aerospace	23AE2015	Aerodynamics Laboratory													
Aerospace	23AE2016	Airplane Performance													
Aerospace	23AE2017	CAD/CAM Laboratory													
Aerospace	23AE2018	Aircraft Instrumentation and Avionics Laboratory													
Aerospace	23AE2046	Boundary Layer Theory													
Aerospace	23AE2060	Basics of Aerospace						25	75						
Aerospace	23AE2066	Engineering Computations using Spreadsheets						25	75						
Aerospace	23AE2067	Engineering Computations using MATLAB						25	75						
Aerospace	23AE2068	UAV Laboratory													
Agriculture	23AG2110	Experiential Learning Program-Soil, Plant, and Water testing	20		60										
Agriculture	23AG2111	Experiential Learning Program-Organic Production	20		46.7			13.3	25			10			
Agriculture	23AG2112	Experiential Learning Program-Commercial Floriculture and Landscaping			60			20							
Agriculture	23AG2113	Experiential Learning Program-Commercial Nursery Management and Protected Cultivation	20		63.6			50	18.2	18.2					
Agriculture	23AG2114	Experiential Learning Program-Production Technology of Biofertilizer	20	31.8	31.8			9.1	27.3			10			
Agriculture	23AG2115	Experiential Learning Program-Mushroom Cultivation	20		46.7			13.3	25						
Agriculture	23AG2116	Experiential Learning Program-Commercial Beekeeping	20		60										
Agriculture	23AG2117	Experiential Learning Program-Agribusiness Management	20		63.6				18.2	18.2					
Agriculture	23AG2119	Experiential Learning Program-Broiler Production Technology	20		46.7			13.3	25						

Management	23MS3025	Product Development and Entrepreneurship																		
Management	23MS3026	Translating Business Model into Startup								25	25									
Management	23MS3027	Social Entrepreneurship																		
Management	23MS3028	Social Media Analytics																		
Physics	23PH1001	Applied Physics for Aerospace Engineering							25	75										
Physics	23PH2001	Nanomaterials and Energy						13					17	20	20					
Physics	23PH3013	Physics of Nanomaterials																		
Physics	23PH3014	Thin Film Technology							25	75										
Physics	23PH3022	Material Characterization																		
Physics	23PH3036	Biomaterials		20																
Robotics	23RO1001	Programming in C																		
Robotics	23RO1002	C Programming Laboratory																		
Robotics	23RO1003	Fundamentals of Python Programming for Robotics																		
Robotics	23RO1004	Python Programming Laboratory for Robotics																		
Robotics	23RO1005	Electronic System Design and Fabrication Laboratory																		
Robotics	23RO1006	rapid Prototyping Laboratory																		
Robotics	23RO2003	Industrial IoT Laboratory																		
Robotics	23RO2004	Electron Devices and Circuits																		
Robotics	23RO2005	Electrical Machines							25	75										
Robotics	23RO2006	Automatic Control Systems																		
Robotics	23RO2007	Electron Devices and Circuits Laboratory																		
Robotics	23RO2008	Electrical Machines and Control Systems Laboratory							25	75										
Robotics	23RO2019	Drone Technology							25	75										
Robotics	23RO2022	System Simulation Laboratory																		
Robotics	23RO2023	Data Acquisition and Interfacing Laboratory																		
Robotics	23RO3001	Robotics: System and Analysis																		
Aerospace	24AE3001	Autonomous Navigation and Flight Control in UAV																		
Agriculture	24AG3001	Modern Concepts in Crop Production																		
Agriculture	24AG3002	Principles and Practices of Soil Fertility and Nutrient Management									25	25								
Agriculture	24AG3003	Principles and Practices of Weed Management									25	25								
Agriculture	24AG3004	Principles and Practices of Water Management									25	25								
Agriculture	24AG3006	Cropping Systems and Sustainable Agriculture						13					17	20	20					
Agriculture	24AG3008	Agronomy of Major Cereals and Pulses																		
Agriculture	24AG3009	Agronomy of Oilseed, Fiber and Sugar Crops																		
Agriculture	24AG3018	Recent Trends in Weed Management								25	25									
Agriculture	24AG3022	Research and Publication					44.4					33.3							22.2	

Water	24WI3002	Hydrological Processes												
Water	24WI3003	Wastewater Management					21.4		14.3	14.3	14.3	21.4		14.3
Water	24WI3004	Irrigation Water Management						25	25					
Water	24WI3005	Computational Methods and Applications												
Water	24WI3006	Water Resources Systems												
Water	24WI3007	Water Supply Distribution and Maintenance												
Water	24WI3008	Network and Quality Analysis												
Water	24WI3009	Environmental Isotope					13				17	20		20
Water	24WI3018	Forest, Urban and Agricultural Watershed Management							25	25				
Water	24WI3021	Water Harvesting and Soil Conservation Structures												
Water	24WI3030	Basics of Agrivoltaics						25	75					
Water	24WI3031	Water Chemistry	20											
Water	24WI3032	Electrochemistry in Water and Wastewater Treatment	41.2				17.6				11.8	17.6		11.8