

1.2.1.1. Number of Programmes in which CBCS/ Elective course system implemented.

ACADEMIC YEAR 2020-2021			
Sl. No.	Sem	Electives offered by the curriculum	Electives opted by our college students
CIVIL ENGINEERING			
	2018 batch S5	CE361 Advanced Concrete Technology CE363 Geotechnical Investigation CE365 Functional Design of Buildings CE367 Water Conveyance Systems CE369 Disaster Management CE371 Environment and Pollution CE373 Advanced Mechanics of Materials	CE361 Advanced Concrete Technology
	2018 batch S6	CE362 Ground Improvement Techniques CE364 Advanced Foundation Engineering CE366 Traffic Engineering and Management CE368 Prestressed Concrete CE372 Engineering Hydrology CE374 Air Quality Management	CE374 Air Quality Management
	2017 batch S7	CE463 Bridge Engineering CE465 Geo-Environmental Engineering CE467 Highway Pavement Design CE469 Environmental Impact Assessment CE471 Advanced Structural Design CE473 Advanced Computational Techniques and Optimization	CE469 Environmental Impact Assessment
	2017 batch S8	CE462 Town and Country Planning CE464 Reinforced Soil Structures and Geosynthetics CE466 Finite Element Methods CE468 Structural Dynamics and Earthquake Resistant Design CE472 Transportation Planning CE474 Municipal Solid Waste Management Global Elective	CE474 Municipal Solid Waste Management Global Elective
	2020 Mtech S1	07CE6209 Soil Exploration and Field Testing 07CE6219 Ground Improvement 07CE6229 Pavement Analysis and Design	07CE6209 Soil Exploration and Field Testing
	2020 Mtech S2	07CE6228 Applied Soil Mechanics 07CE6238 Rock Mechanics 07CE6248 Ground Water Hydrology 07CE6212 Environmental Geotechnical Engineering 07CE6222 Reinforced Earth and Geotextiles 07CE6232 Stability Analysis of Slopes and Embankments	07CE6238 Rock Mechanics

<p>2019 Mtech S3</p>	<p>07CE7201 Forensic Geotechnical Engineering 07CE7211 Modern Techniques in Geotechnical Engineering 07CE7221 Modelling, Simulation and Computer Applications 07CE7203 Earthquake Geotechnical Engineering 07CE7213 Shell Foundations 07CE7223 Geoinformatics</p>	<p>07CE7211 Modern Techniques in Geotechnical Engineering 07CE7223 Geoinformatics</p>
COMPUTER SCIENCE AND ENGINEERING		
<p>2018 batch S5</p>	<p>CS361 Soft Computing CS363 Signals and Systems CS365 Optimization Techniques CS367 Logic for Computer Science CS369 Digital System Testing & Testable Design</p>	<p>CS361 Soft Computing</p>
<p>2018 batch S6</p>	<p>CS362 Computer Vision CS364 Mobile Computing CS366 Natural Language Processing CS368 Web Technologies CS372 High Performance Computing</p>	<p>CS368 Web Technologies</p>
<p>2017 batch S7</p>	<p>CS461 Computational Geometry CS463 Digital Image Processing CS465 Bio Informatics CS467 Machine Learning CS469 Computational complexity</p>	<p>CS463 Digital Image Processing</p>
<p>2017 batch S8</p>	<p>CS462 Fuzzy Set Theory and Applications CS464 Artificial Intelligence CS466 Data Science CS468 Cloud Computing CS472 Principles of Information Security CE482 ENVIRONMENTAL IMPACT ASSESSMENT(GLOBAL ELECTIVE)</p>	<p>CS472 Principles of Information Security CE482 ENVIRONMENTAL IMPACT ASSESSMENT</p>
<p>2020 Mtech S1</p>	<p>07CS 6107 Artificial Intelligence 07CS 6109 Advanced Networking Technologies 07CS 6111 Distributed and Mobile Operating Systems 07CS 6113 Digital Image Processing</p>	<p>07CS 6109 Advanced Networking Technologies</p>
<p>2020 Mtech S2</p>	<p>07CS 6108 Data Compression 07CS 6110 Advanced Topics in Information Security 6112 Software Quality Assurance and Reliability 07CS 6114 Cloud Computing 07CS 6116 High Performance and Secure Networks 6118 Bio Informatics 07CS 6120 Soft Computing 6122 Lambda Calculus</p>	<p>07CS 07CS 6120 Soft Computing 07CS 6114 Cloud Computing 07CS</p>
<p>2019 Mtech S3</p>	<p>07CS 7101 Wireless Communication Techniques 7103 Advanced Machine Learning 07CS 7105 Computer Vision 07CS 7107 Optimization Techniques 07CS 7109 Ad-hoc Wireless Networks 07CS 7111 Advanced Cryptography 07CS 7113 Combinatorial Algorithms 07CS 7115 Big-data Analytics*</p>	<p>07CS 07CS 7103 Advanced Machine Learning 07CS 7115 Big-data Analytics*</p>
ELECTRONICS & COMMUNICATION ENGINEERING		
<p>2018 batch S5</p>	<p>EC361 Digital System Design EC363 Optimization Techniques EC365 Biomedical Engineering C360 Soft Computing</p>	<p>EC365 Biomedical Engineering</p>

	2018 batch S6	EC362 Modelling & Simulation of Communication Systems EC364 Computer Vision EC366 Real Time Operating Systems EC368 Robotics EC370 Digital Image Processing	EC366 Real Time Operating Systems
	2017 batch S7	EC461 Microwave Devices and Circuits EC463 Speech and Audio Processing EC465 MEMS EC467 Pattern Recognition EC469 Opto Electronic Devices	EC465 MEMS
	2017 batch S8	EC462 Mixed Signal Circuit Design EC464 Low Power VLSI Design EC466 Cyber Security EC468 Secure Communication EC472 Integrated Optics & Photonic Systems	EC464 Low Power VLSI Design
	2020 Mtech S1	07EC6409 Electronic System Design 07EC6229 Digital Image Processing 07EC6529 Hardware Software CoDesign	07EC6229 Digital Image Processing
	2020 mtech S2	07EC6528 Embedded System Design 07EC6534 VLSI Process Technology 07EC6548 DSP Architecture and Design 07EC6512 Low Power VLSI Design 07EC6522 Advanced Computer Architecture 07EC6532 SOC Design and Verification	07EC6528 Embedded System Design 07EC6512 Low Power VLSI Design
	2019 Mtech S3	07EC7501 VLSI Signal Processing 07EC7511 High Speed Digital Design 07EC7521 Mixed Signal System Design 07EC7503 Design with Microcontrollers 07EC7503 Design with Microcontrollers 07EC7513 Introduction to MEMS System Design	07EC7501 VLSI Signal Processing 07EC7513 Introduction to MEMS System Design
ELECTRICAL & ELECTRONICS ENGINEERING			
	2018 batch S5	EE361 Object Oriented Programming EE363 Computer Organization and Architecture EE365 Digital System Design EE367 New and Renewable Energy Systems EE369 High Voltage Engineering	EE367 New and Renewable Energy Systems
	2018 batch S6	EE362 Data Structures and Algorithms EE364 Switched Mode Power Converters EE366 Illumination Technology EE368 Soft Computing EE372 Biomedical Instrumentation	EE372 Biomedical Instrumentation
	2017 batch S7	EE461 Modern Operating Systems EE463 Computer Aided Power Systems Analysis EE465 Power Quality EE467 Nonlinear Control Systems EE469 Electric and Hybrid Vehicles	EE469 Electric and Hybrid Vehicles
	2017 batch S8	EE462 Design of Digital Control Systems EE464 FACTS EE466 Digital Image Processing EE468 Computer Networks EE472 Internet of Things EE474 Energy Management and Auditing Global Elective CE 482 Environmental Impact Assessment	CE 482 Environmental Impact Assessment EE474 Energy Management and Auditing
MECHANICAL ENGINEERING			

5	2015 batch S5	ME261 Advanced Fluid Mechanics ME263 Composite Materials and Mechanics ME265 Advanced Metal Casting ME267 Non-Destructive Testing ME269 Tribology ME271 Nuclear Engineering ME273 Human Relations Management	ME 367 Non-Destructive Testing
	2015 batch S6	ME262 Control System Engineering ME264 Turbo Machinery ME266 Advanced Metal Joining Technology ME268 Marketing Management ME272 Operations Research ME274 Theory of Vibration ME276 Maintenance Engineering	ME268 Marketing Management
	2015 batch S7	ME461 Aerospace Engineering ME463 Automobile Engineering ME465 Industrial Hydraulics IE206 Supply Chain and Logistics Management ME467 Cryogenic Engineering ME469 Finite Element Analysis ME471 Optimization Techniques	ME463 Automobile Engineering
	2015 batch S8	ME462 Propulsion Engineering ME464 Robotics and Automation ME466 Computational Fluid Dynamics ME468 Nanotechnology ME472 Failure Analysis and Design ME474 Micro and Nano Manufacturing ME476 Material Handling & Facilities Planning Global Elective - CE 488 Disaster Management	ME476 Material Handling & Facilities Planning Global Elective - CE 488 Disaster Management

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