

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

(An Autonomous Institution)

List of New Courses Academic Year 2020-21

S.NO	Name of the program	Number of Courses
1	Civil Engineering	21
	➤ Introduction to Civil Engineering	
	➤ Civil Engineering Societal & Global Impact	
	➤ Engineering Hydrology	
	➤ Computer Aided civil engineering drawing	
	➤ Solid Mechanics-I	
	➤ Surveying and Geomatics	
	➤ Environmental studies	
	➤ High way engineering	
	➤ Constitution of India	
	➤ Geotechnical Engineering	
	➤ Engineering Geology and rock mechanics	
	➤ Environmental Engineering	
	➤ Energy Sciences and Engineering	
	➤ Air and Noise pollution and control	
	➤ Advanced concrete technology	
	➤ Traffic Engineering and Management	
➤ Earthquake engineering		
➤ Advanced Structural Design		
➤ Earth Retaining Structures		
➤ Industrial Waste water Treatment		
➤ Solid and Hazardous waste Management		
2	Electrical and Electronics Engineering	24
	➤ Basic Electrical Engineering	
	➤ DC Machines and Transformers	
	➤ AC Machines	
	➤ Energy Storage Systems	
	➤ Special Electrical Machines	
	➤ Electrical Estimation and Costing	
	➤ Power Quality	
	➤ Power Electronics	
	➤ Advanced Power System Protection	
	➤ Industrial Electrical Systems	
	➤ Power System Dynamics	
	➤ Smart Grid	
	➤ Modern Power Electronic Converters	
	➤ Power System Reliability	
	➤ Soft Computing Techniques	
	➤ Electrical Engineering Materials	
	➤ Extra High Voltage AC Transmission	
	➤ Neural Networks and Fuzzy Logic	
	➤ Linear System Analysis	
➤ Power System Simulation Lab		
➤ Digital Control Systems		
➤ Electrical Measurements and Instrumentation Lab		
➤ Basic Electrical and Electronics Engineering		
➤ Basic Electrical and Electronics Engineering Lab		
3	Mechanical Engineering	
	➤ Engineering Thermodynamics	
	➤ Engineering Graphics	
	➤ Engineering Mechanics	

	<ul style="list-style-type: none"> ➤ Manufacturing Process ➤ Manufacturing Technology ➤ Robotics ➤ Production planning and control ➤ Advanced Strength of Materials ➤ Theory of Metal cutting ➤ Tribology ➤ Additive Manufacturing ➤ Automation in Manufacturing ➤ Mechanics of composite Materials ➤ Mechanical Vibrations ➤ Computational Fluid Dynamics ➤ Theory of elasticity ➤ Modeling and Simulation of manufacturing systems ➤ Mechatronics ➤ Nano Technology ➤ Finite Element Analysis ➤ Basics of Thermodynamics ➤ Basic Mechanical Engineering ➤ Applied Mechanics ➤ Material Science 	24
	Electronics and Communication Engineering	
4	<ul style="list-style-type: none"> ➤ Network Theory ➤ Programming for Problem Solving ➤ Programming for Problem Solving Lab ➤ Engineering Physics and Chemistry Lab ➤ Transforms and Complex Variables ➤ Electronic Devices and Circuits ➤ Electronic Devices and Circuits Lab ➤ Digital System Design ➤ Power Electronics ➤ Bio Medical Electronics ➤ Constitution of India ➤ Internship ➤ Linear Control Systems ➤ Information Theory and Coding ➤ Speech and Audio Processing ➤ Nano Electronics ➤ Computer Networks ➤ Adaptive Signal Processing ➤ Image and Video Processing ➤ High Speed Electronics ➤ Wavelet ➤ Error Correcting Codes ➤ Introduction to MEMS ➤ RF Circuit Design ➤ CMOS Design ➤ Scientific Computing 	26
	Computer Science and Engineering	
5	<ul style="list-style-type: none"> ➤ Programming for Problem Solving ➤ Programming for Problem Solving Lab ➤ Scripting languages lab ➤ Machine Learning ➤ Cloud Computing ➤ Data Science and Data Analytics ➤ Internet of Things 	14

	<ul style="list-style-type: none"> ➤ Optimization Techniques ➤ High Performance computing ➤ Graph theory ➤ Pattern Reorganization ➤ Natural Language Processing ➤ Wireless Sensor Networks ➤ Soft computing 	
6	Artificial Intelligence and Machine Learning	
	<ul style="list-style-type: none"> ➤ Python Programming ➤ Python Programming Lab ➤ Computer Organization ➤ OOPS through JAVA ➤ OOPS through JAVA Lab ➤ Introduction to AI ➤ Introduction to Machine Learning ➤ Data Base Management System ➤ Operating Systems ➤ Design and Analysis of Algorithms ➤ DBMS Lab ➤ OS Lab ➤ ML Lab ➤ Computer Networks ➤ Automata and compiler design ➤ Introduction to Data Science ➤ Data Science Lab ➤ Computer Networks Lab ➤ Data Mining lab ➤ Web Programming ➤ Software Engineering ➤ Web Programing Lab ➤ OOAD lab ➤ Deep Learning ➤ Deep Learning Lab ➤ Data Analytics lab ➤ Computer Vision ➤ Intelligent Machining ➤ Virtual Reality ➤ Block chain Technology ➤ Genetic Algorithm and its applications ➤ Fuzzy Logic and Its Applications ➤ Stastical Machine Learning ➤ Nature Inspired Computing Techniques ➤ Computational Motion planning ➤ Android Development ➤ iOS Development ➤ Free and Open Source Software ➤ Data Analysis using open source tool ➤ Symantic Web and Social Networks ➤ System Modeling and Simulation 	41
7	M.Tech-Computer Science and Engineering	
	<ul style="list-style-type: none"> ➤ Advanced Data Structures and Algorithms ➤ Operating Systems and Internals ➤ Security in Computing ➤ Internet of Things ➤ Agent Based Intelligent Systems ➤ Cloud Computing 	

	<ul style="list-style-type: none"> ➤ Network Engineering and Management ➤ Natural Language Processing ➤ Ad-HOC and Sensor Networks ➤ Software Quality assurance ➤ Research Methodology and IPR ➤ Advanced Data Structures and Algorithms Lab ➤ Advanced Operating System Lab ➤ Advanced Data base Technology ➤ Network Programming ➤ Advanced Communication Networks ➤ Software Process and Project Management ➤ High Speed Networks ➤ Soft computing ➤ Information Storage Management ➤ Social Network Analysis ➤ Digital Image Processing ➤ Data Mining Techniques ➤ Advanced Data base Technology Lab ➤ Network Programming ➤ Miniproject with Seminar 	26
	M.Tech-Embedded Systems	
8	<ul style="list-style-type: none"> ➤ Embedded System Design ➤ ARM Architectures ➤ Real Time Operating Systems ➤ Advanced Computer Architectures ➤ Embedded C ➤ Design for Testability ➤ Research Methodology ➤ Digital Signal Processing Architectures and Algorithms ➤ Embedded Networking ➤ Sensors and Actuators ➤ CPLD and FPGA Architectures ➤ Hardware and software Co design ➤ Intellectual Property Rights(IPR) 	13
	MBA	
9	<ul style="list-style-type: none"> ➤ Business Economics ➤ Indian Ethos ➤ Digital Marketing ➤ Integrated Marketing Communication ➤ Creativity and Innovation ➤ Indian Models in Entrepreneurship ➤ Green Marketing ➤ Agri- Business Management ➤ Finance and Accounting for small business ➤ Working capital Management ➤ Merges Acquisitions and corporate ➤ Taxation ➤ Cross culture management ➤ Entrepreneurship ➤ Startup management ➤ MSME management ➤ Family business management ➤ Entrepreneur finance ➤ Entrepreneur Marketing ➤ Creative innovation and Entrepreneurship ➤ Business Intelligence 	28

	<ul style="list-style-type: none">➤ Database Management System➤ Design Support system➤ E-business➤ Knowledge management➤ Information system Control➤ Management of Rural Business➤ Finance and Accounting for small business	
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Savel
Principal
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	<ul style="list-style-type: none">➤ Entrepreneurship➤ Startup management➤ MSME management➤ Family business management➤ Entrepreneur finance➤ Entrepreneur Marketing➤ Creative innovation and Entrepreneurship➤ Business Intelligence➤ Database Management System➤ Design Support system➤ E-business➤ Knowledge management➤ Information system Control➤ Management of Rural Business➤ Finance and Accounting for small business	
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