



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002, TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
(Accredited by NAAC with 'A' Grade and NBA)

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2021-22

1.2.1. Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

S.No	Programme Name	Course code	Name of the Course
18	B.E-Mechanical Engineering	1903ME001	Non - traditional machining processes
		1902MCX03	Essence of Indian Traditional Knowledge
		1904GE551	Life Skills: Aptitude I
		1903ME018	Gas dynamics and jet propulsion
		1901MGX03	Operations Research
		1903ME010	Industrial robotics
		1904GE651	Life Skills: Aptitude – II&GD
		1904ME652	Mini project (Design and fabrication Project)
		1904ME653	Industrial Internship
		1903ME001	Non - traditional machining processes
		1902MCX03	Essence of Indian Traditional Knowledge
		1904GE551	Life Skills: Aptitude I
		1903ME018	Gas dynamics and jet propulsion
		1901MGX03	Operations Research
		1903ME010	Industrial robotics
		1904GE651	Life Skills: Aptitude – II&GD
		1904ME652	Mini project (Design and fabrication Project)
		11	M.E Manufacturing Engineering
2102MF102	Modern Manufacturing Processes		
2103MF001	Program Elective–I(Theory of Metal Forming)		
2103MF007	Program Elective–II (Advanced Welding Technology)		
2101RMX01	Research Methodology and IPR		
2101AU001	Audit Course – I		
2102MF203	Materials Technology		
2103MF012	Program Elective – III (Production and Operations Management)		
2101AU002	Audit Course – II		
2102MF205	Modeling and Simulation Laboratory		
2104MF206	Mini Project with Seminar		
17	B.E-Civil Engineering	1901PH101	Introduction to mechanics
		1901GEX02	Engineering Graphics
		1901GEX53	Basic Electrical & Electronics Engineering Lab
		1901GE151	Engineering Intelligence I
		1901GE201	Engineering Exploration
		1901GE252	Engineering Intelligence II
		1901CE405	Biology For Engineers
		1902MCX02	Constitution Of India
		1902CE553	Mini Project

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		1902MCX03	Essence of Indian Traditional Knowledge
		1902CE603	Hydrology And Water Resources Engineering
		1902CE604	Global Warming and Climate Change
		1901MGX07	Universal Human Values and Ethics
		1903CE033	Water Pollution and Management
		1901HS002	Intellectual Property Rights for engineers
		1901HS006	Design Thinking for Innovation
		1904GE751	Life skills - Comprehensive Viva
6	B.E-Electrical and Electronics Engineering	1901GE301	Basic Civil and Mechanical Engineering
		1901MCX03	Essence of Indian Traditional Knowledge
		1902EE602	Power System Analysis
		1901MGX01	Total Quality Management
		-	Elective-IV (Open Elective-I)
		1904GE651	Life Skills: Aptitude- II
29	B.E-Electronics and Communication Engineering	1902EC501	Analog Communication
		1902EC502	Digital Signal Processing
		1902EC503	Transmission Lines and Wave guides
		1902EC504	Control Systems
		1902EC505	Computer Networks
		1902EC551	Digital Signal Processing Laboratory
		1902EC552	Computer Networks Laboratory
		1904GE551	Life Skills: Aptitude I
		1901MCX03	Essence of Indian Traditional Knowledge
		1902EC601	Antenna and Waveguide Propagation
		1902EC602	VLSI Design
		1902EC603	Digital Communication
		1902EC651	VLSI Design Laboratory
		1902EC652	Analog & Digital Communication Laboratory
		1904GE651	Life Skills: Aptitude II & GD
		1903EC004	Display Systems
		1901MGX01	Total Quality Management
		1901MGX02	Project Management and Finance
		1901MGX03	Operations Research
		1901MGX04	Principles of Management
		1903EC028	Medical Electronics
		1903EC029	High Speed Networks
		1903EC030	Generations of Communication Technology.
		1903EC031	Optical Networks
		1903EC025	Satellite Communication
		1903EC006	Radar and Navigation Aids
		1903EC007	Automotive Electronics
		1903EC008	Internet of Things
		1903EC009	Biomedical Engineering
		1903EC010	Information Coding Techniques
		1903CS001	Mobile Computing
		1901MGX01	Total Quality Management
		1901MCX03	Essence of Indian Traditional Knowledge
		1902CS601	Compiler Design
		1901HS003	Startup Entrepreneurship
		1902CS651	Compiler Laboratory

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		1904CS653	Software Prototype development Lab
		1901GEX04	Biology for Engineers
8	B.Tech -Information Technology	1901MGX07	Universal Human Values and Ethics
		1904IT752	In plant Training / Internship Presentation
		1901HS005	Social Entrepreneurship
		1901HS006	Design Thinking for Innovation
		1901HS007	Indian Patent Law and Patent Drafting
		1901HS008	IP Management and Commercialization
		1903IT019	Blockchain Technologies
		26	B.E-Biomedical Engineering
1902BM502	Medical Optics		
1902BM503	Microprocessor and its Applications		
1902BM504	Biomedical Digital Signal Processing		
1902BM505	Bio Process Control		
1902BM551	Biomedical Digital Signal Processing Laboratory		
1902BM552	Biosensors and Transducers Laboratory		
1904BM553	Microprocessor and Applications Laboratory		
1904GE551	Life Skills: Aptitude I		
1901MCX03	Essence of Indian Traditional Knowledge		
1901BM601	Diagnostic and Therapeutic Equipment- I		
1902BM602	Analog and Digital Communication		
1902BM603	Biomaterials		
1902BM651	Diagnostic and Therapeutic Equipment Laboratory		
1902BM652	Analog and Digital Communication Laboratory		
1902BM653	Mini Project		
1902BM654	Industrial Visit Presentation		
1904GE651	Life Skills: Aptitude II GD		
1903BM001	Bio MEMS		
1903BM002	Nanotechnology in Medicine		
1903BM003	Bio Signal Processing and Systems		
1903BM004	Nuclear Medicine		
1903BM005	Regulatory Requirements in Pharmaceutical Industries		
1903BM006	Bio Analytical methods and Instruments		
1903BM007	Tele Health Technologies		
1903BM008	Medical Informatics		
20	B.Tech-Computer Science and Business System	1902BS301	Formal Language and Automata Theory
		1902BS302	Computer Organization and Architecture
		1902BS303	Object Oriented Programming
		1902BS304	Computational Statistics
		1902BS305	Software Engineering
		1902BS306	Financial Management
		1902BS351	Object Oriented Programming Lab
		1902BS352	Computational Statistics Lab
		1904GE351	Life Skill:Soft Skill
		1901MCX02	Constitution of India
		1902BS401	Operating Systems
		1902BS402	Database Management Systems
		1902BS403	Software Design with UML
		1902BS404	Marketing Research and Marketing Management
		1901GE401	Introduction to Innovation, IP

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Neenattinam (DT) Tamil Nadu

			Management and Entrepreneurship
		1901MA404	Operations Research
		1902BS451	Database Management Systems Lab
		1901EN301	BUSINESS COMMUNICATION & VALUE SCIENCE – III
		1904GE451	Life Skill: Verbal Activity
		1901MCX01	Environmental Studies
12	M.E - Computer Science and Engineering	2102CP104	Networking Technologies Laboratory
		2102CP204	Machine Learning Techniques Laboratory
		2104CP206	Mini Project with Seminar
		2103CP002	Networking Technologies
		2103CP003	Advanced Storage Area Network
		2103CP006	Semantic Web
		2103CP008	Software Architecture Patterns
		2103CP009	Cyber Security
		2103CP011	Applied Cryptography
		2103CP012	Biometric Technologies
		2103CP013	Soft Computing
		2103CP016	Deep Learning
10	M.E — Power Electronics and Drives	2101PE101	Modelling and Analysis of Electrical Machines
		2102PE102	Analysis and Design of Power Converters
		2103PE006	Program Elective – II Power Quality
		2101AU005	Audit Course – I CONSTITUTION OF INDIA
		2103PE011	Program Elective – III Special Machines and Their Controllers
		2103PE015	Program Elective – IV Electric Vehicles and Power Management
		2101RMX01	Research Methodology and IPR
		2101AU002	Audit Course – II DISASTER MANAGEMENT
		2102PE203	Digital Control of Power Electronic Circuits Laboratory
		2104PE205	Mini Project with Seminar
22	M.E — Communication Systems	2101CO101	Applied Engineering Mathematics for Communication System
		2102CO102	Antenna Design and Analysis
		2103CO001	Program Elective – I (Electromagnetic Interference and Compatibility in System Design)
		2103CO006	Program Elective – II (Network Routing Algorithms)
		2101RMX01	Research Methodology and IPR
		2102CO103	Communication System Laboratory
		2102CO104	RF System Design Laboratory
		2102CO201	Wireless Communication Engineering
		2102CO202	Optical Switching and Networking
		2102CO203	High Speed Communication Networks
		2103CO015	Program Elective – III(Radiating Systems)
		2103CO019	Program Elective – IV(Optical Signal Processing)
		2102CO204	Wireless Communication Networks Laboratory
		2104CO205	Mini Project with Seminar
		1702CO301	Electromagnetic Interference and

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			Compatibility in System Design
		1703CO024	Elective IV - Machine Learning Algorithms
		1703CP017	Elective V - Embedded Software Development
		1704CO302	Project Work Phase-I
		1703CO033	Wireless Sensor Networks
		1703CO034	Optical Signal Processing
		1703CO035	High Speed Switching Architecture
		1703CO036	Network Engineering And Management
6	M.E — Environmental Engineering	2101RMX01	Research Methodology and IPR
		2101AU005	Constitution of India
		2101AU002	Disaster Management
		2104EV204	Mini Project with Seminar
		2103EV013	Resource and Energy Recovery from Waste
		2103EV020	Environmental Policy and Legislation
5	MBA - Master of Business Administration	2002BA101	Management Concepts and Organizational Behavior
		2002BA108	Computer Applications for Business
		2004BA208	Indian Ethos and Business Ethics
		2003BA017	Financial Derivatives
	MCA - Master of Computer Application	Nil	Nil

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