



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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2017-18

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
17	B.E-Mechanical Engineering	1701MA101	Engineering Mathematics-I
		1701PH101	Applied Physics for Engineers
		1701EN101	Technical English
		1701CH102	Materials Chemistry
		1701GE104	Fundamentals of Mechanical Engineering
		1701GEX03	Programming in C
		1701HS151	Physics and Chemistry Lab –I
		1701GEX51	Programming in C Lab
		1701GEX53	Workshop Practice
		1701MA201	Engineering Mathematics II
		1701PH203	Materials Science
		1701CH201	Environmental Studies
		1701GEX01	Basic Electrical and Electronics Engineering
		1701GEX02	Engineering Graphics
		1701GEX04	Engineering Mechanics
		1701GEX52	Communication Skills Lab
		1701HS251	Physics and Chemistry Lab II
18	M.E Manufacturing Engineering	1701MF101	Advanced Optimization Techniques
		1702MF102	Polymers and Composite Materials
		1702MF103	Materials Testing and Mechanical Characterization
		1702MF104	Industrial Automation and Mechatronics
		1702MF105	Robot Design and Programming
		1703MF003	Micro Electro Mechanical Systems and Nano Technology
		1704MF106	CAD/CAM Lab
		1704MF107	Industrial Automation and Mechatronics Lab
		1704MF108	Communication Skills Lab I
		1701MF201	Advanced Machining Technology
		1702MF202	Flexible Tooling and Automated Inspection
		1702MF203	Theory of Metal Forming
		1702MF204	Advances in Casting and Welding
		1702MF205	Precision Machining
		1703MF002	Flexible Manufacturing Systems
		1704MF206	Metal Forming Lab
		1704MF207	Technical Seminar
1704MF208	Communication Skills Lab II		
B.E-Civil Engineering		1701LE202	Language Elective
		1701GE451	Life Skills: Verbal Ability
		1702CE654	Industrial Visit / Presentation
		1704GE751	Competitive exams Preparation
		1702CE754	In plant Training / Internship Presentation
		1701PH101	Applied Physics for Engineers

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13	B.E-Electrical and Electronics Engineering	1701EN101	Technical English
		1701CH104	Applied Chemistry
		1701GEX52	Communication Skills Laboratory
		1701GEX53	Workshop Practice
		1701PH202	Semiconductor Physics and Devices
		1701CH201	Environmental Studies
		1701GEX02	Engineering Graphics
		1701GEX03	Programming in C
		1702EE201	Electric Circuit Analysis
		1701LE201	Language Elective
		1701GEX51	Programming in C Laboratory
		1701HS251	Physics and Chemistry Laboratory -II
		17	B.E-Electronics and Communication Engineering
1701PH101	Applied Physics for Engineers		
1701EN101	Technical English		
1701CH104	Applied Chemistry		
1701GE101	Basic Electrical and Instrumentation Engineering		
1701GEX02	Engineering Graphics		
1701GEX03	Programming in C		
1701HS151	Physics and Chemistry Lab -I		
1701GEX51	Programming in C Lab		
1701MA201	Engineering Mathematics II		
1701PH202	Semiconductor Physics and Devices		
1701CH201	Environmental Studies		
1701GE201	Basic Civil and Mechanical Engineering		
1701EC201	Circuit Theory		
1701GEX52	Communication Skills Lab		
1701GEX53	Workshop Practice		
1701HS251	Physics and Chemistry Laboratory - II		
19	B.E-Computer Science and Engineering	1701MA101	Engineering Mathematics-I
		1701PH101	Applied Physics for Engineers
		1701CH101	Applied Chemistry in Informatics
		1701EN101	Technical English
		1701GEX01	Basic Electrical and Electronics Engineering
		1701GEX02	Engineering Graphics
		1701GEX03	Programming in C
		1701HS151	Physics and Chemistry Lab -I
		1701GEX51	Programming in C Lab
		1701MA201	Engineering Mathematics-II
		1701PH201	Physics of Engineering Materials
		1701CH201	Environmental Studies
		1701GE201	Basic Civil & Mechanical Engineering
		1702CS201	Programming in C++
		1701LE201/ 1701LE202	Communicative English/ Hindi
		1701GEX53	Workshop Practice
		1701HS251	Physics and Chemistry Lab -II
		1702CS251	Programming in C++ Lab
		1701GEX52	Communication Skills Lab
		8	B.Tech-Information Technology
1702IT302	Digital Principles and Design		
1702IT303	Principles of Communication		
1704GE351	Life Skills: Soft Skills		
1702IT401	Software Engineering and Project Management		
1702IT402	Java Programming		

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		1702IT403	Internet of Things
		1702IT451	Networks Lab
40	M.E - Computer Science and Engineering	1701CP101	Applied Probability and Statistics
		1702CP102	Advanced Data Structures and Algorithms
		1702CP103	Advanced Computer Architecture
		1702CP104	Advanced Operating Systems
		1702CP105	Design And Management of Computer Networks
		1704CP106	Advanced Data Structures Laboratory
		1704CP107	Case Study – Operating Systems Design
		1704CP108	Communication Skills Lab I
		1701CP201	Software Process and Project Management
		1702CP202	Security In Computing
		1702CP203	Internet Of Things
		1702CP204	Advanced Databases
		1702CP205	Machine Learning Techniques
		1704CP206	Advanced Database Laboratory
		1704CP208	Communication Skills Lab II
		1703CP001	Big Data Analytics
		1703CP002	Advanced Graph Theory
		1703CP003	Image Processing and Analysis
		1703CP004	Cloud Computing
		1703CP005	Data Mining Techniques
		1703CP006	Real Time Systems
		1703CP007	Mobile and Pervasive Computing
		1703CP008	Parallel Programming Paradigms
		1703CP009	Information Retrieval Techniques
		1703CP010	Network and Information Security
		1703CP011	Performance Analysis of Computer Systems
		1703CP012	Language Technologies
		1703CP013	Computer Vision
		1703CP014	Speech Processing and Synthesis
		1703CP015	Software Quality Assurance and Testing
		1703CP016	Ad hoc Mobile Wireless Networks
		1703CP017	Embedded Software Development
1703CP018	Social Network Analysis		
1703CP019	Bio-inspired Computing		
1703CP020	Compiler Optimization Techniques		
1703CP021	Data Visualization Techniques		
1703CP022	Reconfigurable Computing		
1703CP023	Mobile Application Development		
1703CP024	Bio Informatics		
1703CP025	Information Storage Management		
		1701PE101	Applied Mathematics for Electrical Engineers
		1701PE102	Power Semiconductor Devices and Recent Advancements
		1701PE103	Analysis of Power Converters
		1701PE104	Analysis of Inverters
		1701PE105	Modelling and Analysis of Electrical Machines
		1703PE012	SOLAR AND ENERGY STORAGE SYSTEM
		1704PE106	Power Electronic Circuits Laboratory
		1704PE107	Power Electronics Simulation Laboratory
		1704PE108	Communication Skills Lab I
		1701PE201	Research Methodology
		1701PE202	Solid State DC Drives

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M.E – Power Electronics and Drives

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		1701PE203	Solid State AC Drives	
		1701PE204	Power Quality Issues and Solutions	
		1701PE205	Modelling and Design of SMPS	
		1703PE002	POWER CONVERTERS FOR SOLAR AND WIND ENERGY CONVERSION SYSTEM	
		1701PE206	Electrical Drives Laboratory	
		1701PE207	Technical Seminar	
		1701PE208	Communication Skills Lab II	
24	M.E — Communication Systems	1701CO101	Applied Engineering Mathematics	
		1702CO102	Advanced Digital Signal Processing	
		1702CO103	High Speed Communication Networks	
		1702CO104	Advanced Digital Communication	
		1702CO105	Wireless Communication Engineering	
		1704CO106	Signals Processing and Communication Laboratory	
		1704CO107	Wireless Communication Networks Lab	
		1704CO108	Communication Skills Laboratory - I	
		1702CO201	24	
		1702CO202	Microwave Integrated Circuits	
		1702CO203	Optical Switching and Networking	
		1702CO204	Information Theory and Coding	
		1704CO205	RF System Design Laboratory	
		1704CO206	Technical Seminar	
		1704CO207	Communication Skills Laboratory -II	
		EL7301	Digital Switching and Transmission	
		EL7311	Project Work (Phase I)	
			AP7301	Electromagnetic Interference and Compatibility
			CU7002	MEMS and NEMS
			CU7101	Advanced Radiation Systems
			DS7301	Speech and Audio Signal Processing
			DS7003	Array Signal Processing
			DS7002	Bio Signal Processing
			EL7411	Project Work (Phase II)
4	M.E — Environmental Engineering	1703EV002	Climate Change and Modeling	
		1703EV202	Air Pollution Monitoring and Control	
		1703EV005	Environmental Policies and Legislation	
		1704EV208	Technical Seminar	
5	MBA - Master of Business Administration	1704BA107	Managerial Communication I	
		1704BA109	Life Skills I	
		1704BA210	Life Skills II	
		1703BA009	International Trade Finance	
		1703BA014	Entrepreneurship Development	
13	MCA - Master of Computer Application	1702CA102	Problem Solving and C Programming	
		1702CA103	Database Management Systems	
		1702CA104	Data Structures	
		1702CA105	Computer Organization and Design	
		1702CA106	Data structures and Programming Laboratory	
		1702CA107	Database Management Systems Laboratory	
		1702CA201	Computer Communications and Networks	
		1702CA202	Operating System Concepts	
		1702CA203	Software Engineering Methodologies	
		1702CA204	Design and Analysis of Algorithms	
		1702CA205	Object Oriented Programming	
		1702CA206	OOP and Algorithms Laboratory	
		1702CA207	OS and Network Programming	

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