



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)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

Number of all Programmes offered by the institution during the last five years.

Sl.No	Program Code	Program Name
1	CS	B.E. Computer Science and Engineering
2	EE	B.E. Electrical and Electronics Engineering
3	EC	B.E. Electronics and Communication Engineering
4	ME	B.E. Mechanical Engineering
5	CE	B.E. Civil Engineering
6	BM	B.E. Bio Medical Engineering
7	IT	B.Tech. Information Technology
8	CB	B.Tech. Computer Science and Business Systems
9	BA	MBA - Master of Business Administration
10	CA	MCA - Master of Computer Application
11	CP	M.E. Computer Science and Engineering
12	MF	M.E. Manufacturing Engineering
13	CO	M.E. Communication Systems
14	PE	M.E. Power Electronics and Drives
15	EV	M.E. Environmental Engineering



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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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Thethi, Nagore - 611 002,

Nagapattinam (Dt) Tamil Nadu.

		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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			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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Kanyakumari (Dt) Tamil Nadu.

			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		Management Concepts and Organizational Behavior
		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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		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
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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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			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
5	MBA - Master of Business Administration	2103EV020	Environmental Policy and Legislation
		2002BA101	Management Concepts and Organizational Behavior
		2002BA108	Computer Applications for Business
		2004BA208	Indian Ethos and Business Ethics
	MCA - Master of Computer Application	2003BA017	Financial Derivatives
	MCA - Master of Computer Application	Nil	Nil

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2020-21

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
20	B.E-Mechanical Engineering	1904GE351	Life Skills: Soft Skills
		1901MCX01	Environmental Science
		1901ME404	Biology for Engineers
		1904GE451	Life Skills: Verbal Ability
		1902MCX02	Constitution of India
		1702ME701	Automobile Engineering
		1702ME702	Mechatronics
		1702ME703	Computer Aided Manufacturing
		1701MGX02	Industrial Economics
		1703ME018	Power Plant Engineering
		1703ME011	Industrial Robotics
		1702ME751	Mechatronics Laboratory
		1702ME752	Computer Aided Manufacturing Laboratory
		1704ME753	Mini Project III (Simulation and analysis)
		1704ME754	In-Plant Training/Internship Presentation
		1704GE751	Life Skills : Competitive Exams Preparation
		1703ME015	Computer Integrated Manufacturing
		1703MG001	Total Quality Management
		1703ME014	Design Of Jigs, Fixtures And Press Tools
		1704ME851	Project Viva Voce
	M.E Manufacturing Engineering	Nil	Nil
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
		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

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		1901HS006	Design Thinking for Innovation
		1904GE751	Life skills - Comprehensive Viva
8	B.E-Electrical and Electronics Engineering	1901MCX02	Constitution of India
		1901GEX04	Biology for Engineers
		1703EE010	Electric and Hybrid Vehicles
			Elective-VI (Open Elective)
		1702EE752	Computer Aided Electrical Drawing Laboratory
		1704EE753	Mini Project-III
		1704GE751	Life Skills: Competitive Exams Preparation
		1704EE754	Implant / Internship Training Presentation
58	B.E-Electronics and Communication Engineering	1901MA301	Engineering Mathematics – III (Transforms and Linear algebra)
		1902EC304	Biology for Engineers
		1902CS306	Object Oriented Programming and Data Structures
		1902EC301	Electron Devices
		1902EC302	Circuits and Networks
		1902EC303	Digital Electronics
		1902EC351	Electron Devices & Circuits Laboratory
		1902EC352	Digital Electronics Laboratory
		1902CS354	Object Oriented Programming and Data Structures Laboratory
		1901MCX02	Constitution of India
		1904GE351	Life Skills: Verbal ability
		1901MA402	Probability Theory and Stochastic Processes
		1902EC401	Electronics Circuits
		1902EC402	Signals and Systems
		1902EC403	Electromagnetic Fields
		1902EC404	Analog Integrated Circuits
		1902EC405	Microprocessors and Microcontrollers
		1902EC451	Electronics and Integrated Circuits Laboratory
		1902EC452	Microprocessors and Microcontrollers Laboratory
		1904GE451	Life Skills: Reasoning
		1901MCX01	Environmental Science
		1702EC701	Microwave Engineering
		1702EC702	Optical Communication
		1702EC703	Wireless Communication
		1702EC704	Image Processing
		1702EC751	Microwave and Optical Communication Laboratory
		1704EC753	
		1704GE751	Life Skills: Competitive Exams Preparation
		1702EC753	Mini Project
		1703MG701	Principles of Management
		1703MG702	Disaster Management
		1703MG703	Total Quality Management
		1703MG704	Industrial Economics
		1703MG705	Foundation Skills in Integrated Product Development
1703EC021	Advanced Digital Signal Processing		
1703EC022	Embedded System		
1703EC023	Pattern Recognition and Machine		

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

			Learning
		1703EC024	Speech Processing
		1703EC025	VLSI Signal Processing
		1703EC026	RF System Design
		1704EC851	Project Work
		1703EC027	Multimedia Communication
		1703EC028	Wireless Sensor Networks
		1703EC029	Radar and Navigation Aids
		1703EC030	Microwave Integrated Circuits
		1703EC031	Satellite Communication
		1703EC032	System-on Chip Design
		1703EC033	Network on Chip Design
		1703EC034	Low Power VLSI Design
		1703EC035	Analog IC Design
		1703EC036	Mixed Signal CMOS Design
		1703EC037	Electromagnetic Interference and Compatibility
		1703EC038	Digital System Design and Testing
		1703EC039	Optical Networks
		1703EC040	RF MEMS
		1703EC041	Digital Switching and Transmission
		1703EC042	ARM Processors
		1703EC043	Mobile Computing
19	B.E-Computer Science and Engineering	1902CS302	Object Oriented Programming
		1901MCX02	Constitution of India
		1902CS352	Object Oriented Programming Laboratory
		1901GEX04	Biology for Engineers
		1901MCX01	Environmental Science
		1702CS701	Cryptography and Network Security
		1702CS702	Software Project Management
		1702CS703	Big Data Analytics
		1702CS704	Cloud Computing
		1703CS001	Service oriented Architecture
		1703ED001	Startup Entrepreneurship
		1702CS751	Cloud Computing Laboratory
		1702CS752	Network Security Laboratory
		1704CS753	Software Development Laboratory
		1704GE751	Life Skills: Competitive Exams Preparation
		1704CS754	In-plant Training / Internship Presentation
		1703CS024	Bioinformatics
		1703CS027	Data Centre and Virtualization
		1703CS035	Social Network Analysis
		1902IT304	Problem solving using Python
		1902IT305	Biology for IT
		1902IT351	Data Structures and Algorithm Lab
		1902IT353	Python Programming Lab
		1902IT352	Digital Principles and Design Lab
		1904GE351	Life Skills: Verbal Ability
		1902MCX02	Constitution of India
		1902IT452	Java Programming Lab
		1904GE451	Life Skills: Verbal Reasoning
		1902IT551	Web Programming Lab
		1904IT552	Start up Opportunities for IT Engineers
		1902MCX03	Essence of Indian Traditional Knowledge
		1903IT002	Virtual Reality

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

S.S. Pillay Engineering College,
21, Mettupalayam Road,
Nagapattinam, Tamil Nadu.

B.Tech - Information
Technology

		1901MGX05	Engineering Economics and Finance
		1901MGX06	Human Resource Development in IT
		1903IT007	Cyber Security
		1901HS001	Innovation and Entrepreneurship Fundamentals
		1901HS002	Intellectual Property Rights for Engineers
		1901HS003	Start up Entrepreneurship
		1901HS004	Business Model Innovation
		1901MA104	Engineering Mathematics –I (Linear Algebra, Calculus and Partial differentiation)
		1901ENX01	English for Engineers
		1901GE151	Engineering Intelligence I
		1901MA204	Engineering Mathematics–II (Calculus, Ordinary Differential Equations and Complex Variable)
		1901PH202	Semiconductor Physics and Optoelectronics
		1901GE201	Engineering Exploration
		1901GE254	Computer Hardware and IT Essentials Laboratory
		1901GE252	Engineering Intelligence - II
		1901GEX51	CAD Laboratory
		1901GEX53	Basic Electrical and Electronics Engineering Laboratory
		1902BM301	Fundamentals of Biochemistry
		1902BM302	Bio medical Circuits and Networks
		1902BM303	Biosensors and Measurements
		1902BM304	Human Anatomy and Physiology
		1902BM351	Devices and Circuits Laboratory
		1902BM352	Biochemistry and Human Physiology Laboratory
		1902CS351	C++ and Data Structures Laboratory
		1904GE351	Life Skills: Verbal Ability
		1901MCX02	Constitution of India
		1901MA401	Probability Theory and Stochastic Processes
		1902BM401	Biomechanics
		1902BM402	Basics of Pathology and Microbiology
		1902BM403	Control Systems
		1902BM404	Biomedical Instrumentation
		1902BM405	Digital Electronics and Integrated Circuits
		1902BM451	Pathology and Microbiology Laboratory
		1902BM452	Biomedical Instrumentation Laboratory
		1902BM453	Analog and Digital Integrated Circuits Laboratory
		1904GE451	Life Skills: Verbal Reasoning
		1901MCX01	Environmental Science
		1901MA105	Discrete Mathematics
		1901MA106	Probability and Statistics
		1901GE102	Principles of Electrical Engineering
30	B.E-Biomedical Engineering		

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

12	B.Tech-Computer Science and Business System	1901PH103	Fundamentals of Physics
		1901EN101	Business Communication and Value Science - I
		1901GE103	Fundamentals of Computer Science
		1901MA205	Linear Algebra
		1901MA206	Statistical Modeling
		1901GE202	Data Structures and Algorithms
		1901GE203	Principles of Electronics
		1901HS201	Fundamentals of Economics
		1901EN201	Business Communication and Value Science - II
	M.E - Computer Science and Engineering	Nil	Nil
	M.E — Power Electronics and Drives	Nil	Nil
23	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	FPGA Based Communication System Design
		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
		1702CO301	Electromagnetic Interference and 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		
	M.E — Environmental Engineering	Nil	Nil
4	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
		2001CA101	Linear Algebra, Probability and Statistics
		2002CA102	Advanced Data structures and Algorithms


S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.

37	MCA - Master of Computer Application	2002CA103	Computer Communications and Networks
		2002CA104	Advanced Databases
		2002CA105	Python Programming
		2002CA106	Software Engineering and Project Management
		2002CA107	Advanced Data structures and Algorithms Laboratory
		2002CA108	Python Programming Laboratory
		2002CA201	Advanced Java Programming
		2002CA202	Mobile Technologies
		2002CA203	Data Mining Techniques
		2002CA204	Internet of Things
		2002CA205	Professional Practice and Ethics
		2002CA206	Java and Web Programming Laboratory
		2002CA207	Mobile Application Development Lab
		2002CA301	Cryptography and Network Security
		2002CA302	Distributed Systems and Cloud Computing
		2002CA303	Human Resource Management
		2002CA304	Data Analytics
		2002CA305	Data Analytics Laboratory
		2002CA306	Distributed System and Cloud Laboratory
		2004CA401	Project Work
		2003CA001	Research Methodology and IPR
		2003CA002	Software Quality Assurance
		2003CA003	Digital Image Processing
		2003CA004	Computer Graphics and Animation
		2003CA005	Software Testing
		2003CA006	Machine Learning Techniques
		2003CA007	Artificial Intelligence
		2003CA008	Compiler Design
		2003CA009	Cognitive Computing
		2003CA010	Visualization Techniques
		2003CA011	R Programming
		2003CA012	PHP Programming
		2003CA013	Java Server Pages
2003CA014	.NET Programming		
2003CA015	Block chain Technologies		

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PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

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

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

2019-20.

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
31	B.E-Mechanical Engineering	1901PH101	Introduction to Mechanics
		1901GEX51	CAD Lab
		1901GEX52	Basic Electrical and Electronics Engineering Lab
		1901HSX51	Communication Skills
		1901GEX03	Programming for Problem Solving
		1901ENX01	English for Engineers
		1901GE201	Engineering Exploration
		1901GE253	Basic Workshop Lab
		1901HSX51	Communication Skill Lab
		1901GE252	Engineering Intelligence – II
		1701MA502	Operations Research
		1702ME501	Heat and Mass Transfer
		1702ME502	Computer Aided Design
		1702ME503	Design of Transmission Systems
		1703ME001	Non - Traditional Machining Processes
		1703ME006	WELDING TECHNOLOGY
		1702ME551	Heat Transfer Laboratory
		1702ME552	Computer Aided Design Laboratory
		1704ME553	Mini Project I (Design and Fabrication)
		1704GE551	Life Skills: Aptitude I
		1701MGX01	Professional Ethics
		1702ME601	Finite Element Analysis
		1702ME602	Gas Dynamics and Jet Propulsion
		1702ME603	Dynamics of Machines
		1703ME007	Process Planning And Cost Estimation
		1703ME026	Safety Engineering
		1702ME651	Dynamics of Machines Laboratory
		1702ME652	Computer Aided Analysis Laboratory
		1704ME653	Mini Project II
		1704ME654	Industrial Visit Presentation
		1704GE651	Life Skills: Aptitude II
	M.E Manufacturing Engineering	nil	nil
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
		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

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

		1901HS006	Design Thinking for Innovation
		1904GE751	Life skills - Comprehensive Viva
22	B.E-Electrical and Electronics Engineering	1901MA103	Engineering Mathematics – I (Calculus and Differential Equations)
		1901PH102	Wave, Optics and Electromagnetism
		1901GEX51	CAD Lab
		1901GEX53	Basic Electrical and Electronics Engineering Lab
		1901PHX51	Engineering Physics Lab
		1901GE151	Engineering Intelligence-I
		1901MA203	Engineering Mathematics – II (Linear Algebra, Transform Calculus and Numerical Methods)
		1901ENX01	English for Engineers
		1901GE201	Engineering Exploration
		1901GE252	Engineering Intelligence – II
		1703EE002	ELECTRICAL SAFETY AND MANAGEMENT
		1701GEX51	Programming in C Laboratory
		1701HS251	Physics and Chemistry Laboratory -II
		1704EE552	Mini Project – I
		1704GE551	Life Skills: Aptitude-I
		1701MGX02	Industrial Economics
		1703EE009	Power System Transient
		Elective-VI (Open Elective)	Elective-VI (Open Elective)
		1702EE651	Power Electronics and Drives Laboratory
		1704EE653	Mini Project – II
		1704EE654	Industrial Visit Presentation
		1704GE651	Life Skills: Aptitude – II
50	B.E-Electronics and Communication Engineering	1901MA104	Engineering Mathematics –I (Linear Algebra, Calculus and Partial differentiation)
		1901CH102	Chemistry for Electronic Engineers
		1901GEX03	Programming for Problem Solving
		1901ENX01	English for Engineers
		1901GEX52	Computer Programming Lab
		1901GEX51	Engineering Intelligence I
		1901CHX51	Engineering Chemistry Lab
		1901HS151	Communication Skills
		1901MA204	Engineering Mathematics –II (Calculus, Ordinary Differential Equations and Complex Variable)
		1901PH202	Semiconductor Physics and Optoelectronics
		1901GEX01	Basic Electrical and Electronics Engineering
		1901GEX02	Engineering Graphics
		1901GE201	Engineering Exploration
		1901GE254	Computer Hardware and IT Essentials Lab
		1901GE252	Engineering Intelligence - II
		1901GEX51	CAD Lab
		1901GEX53	Basic Electrical and Electronics Engineering Lab
		1901PHX51	Engineering Physics Lab
		1702EC501	Analog Communication
		1702EC502	Antenna and Wave Propagation
		1702EC503	Digital Signal Processing
		1702EC504	Computer Networks
1702EC551	Analog Communication Laboratory		
1702EC552	Digital Signal Processing Laboratory		
1703EC501	Nano Electronics		
1703EC502	Automotive Electronics		
1703EC503	Micro Electronics		
1703EC504	Biomedical Engineering		

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Dr. S. RAMABALAN, M.E., Ph.D.,
 PRINCIPAL
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 Thuthi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.

		1703EC505	Robotic Vision
		1703EC506	Computer Architecture and Organization
		1703EC507	Advanced Microcontrollers
		1703EC508	Measurement and Instrumentation
		1703EC509	Virtual Instrumentation
		1702CSX01	Operating Systems
		1701MGX01	Professional Ethics
		1702EC601	VLSI Design
		1702EC602	Digital Communication
		1702EC603	Wireless Networks and Standards
		1702EC651	VLSI Design Laboratory
		1702EC652	Communication and Networks Laboratory
		1703EC601	Information Theory and Coding
		1703EC602	Digital Control Engineering
		1703EC603	Network Security
		1703EC604	Real Time Operating Systems
		1703EC605	Soft Computing
		1703EC813	Cloud Computing
		1703EC814	Internet of Things (IoT)
		1703EC815	Big Data Analytics
		1703EC816	Introduction to Web Technology
		1703EC817	Grid Computing
		1901MA102	Engineering Mathematics –I
		1901ENX01	English for Engineers
		1901GE151	Engineering Intelligence I
		1901MA202	Engineering Mathematics –II
		1901PH201	Physics for Information Science
		1901GEX02	Engineering Graphics
		1901GE201	Engineering Exploration
		1901GE254	Computer Hardware and IT Essentials Lab
		1901GE252	Engineering Intelligence - II
		1901GEX51	CAD Lab
		1901GEX53	Basic Electrical and Electronics Engineering Lab
		1701MA501	Discrete Mathematics
		1702CS501	Object Oriented Analysis and Design
		1702CS502	Theory of Computation
		1702CS503	Computer Graphics and Multimedia
		1703CS002	Software Testing (Elective I)
		1703CS006	Mobile Computing (Elective II)
		1702CS551	Computer Graphics and Multimedia Laboratory
		1704CS552	CASE Tools Laboratory
		1704CS553	Technical Seminar
		1704GE551	Life Skills: Aptitude-I
		1701MGX01	Professional Ethics
		1702CS601	Web Technology
		1702CS602	Artificial Intelligence
		1702CS603	Distributed Systems
		1703CS012/ 1703MG008	Data Warehousing and Data Mining/Human Rights
		1702CS651	Web Technology Laboratory
		1704CS652	Mobile Application Development Laboratory
		1704CS653	Industrial Visit Presentation
		1704GE651	Life Skills: Aptitude-II
		1901MA102	Engineering Mathematics – i (calculus and linear algebra)
		1901CH101	Applied Chemistry in Informatics
		1901ENX01	English for Engineers
		1901GE151	Engineering Intelligence 1
		1901MA202	Engineering Mathematics –II
		1901PH201	Physics for Information Science
		1901GE201	Engineering Exploration
		1901GE254	Computer Hardware and IT Essentials Lab
		1901GE252	Engineering Intelligence - II
		1901GEX51	CAD Lab
30	B.E-Computer Science and Engineering		
11	B.Tech - Information Technology		

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Dr. S. RAMABALAN, M.E., Ph.D.
Principal
E.G.S. Pillay Engineering College
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.

		1901GEX53	Basic Electrical and Electronics Engineering Lab
	M.E - Computer Science and Engineering	Nil	Nil
	M.E — Power Electronics and Drives	Nil	Nil
23	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	FPGA Based Communication System Design
		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
		1702CO301	Electromagnetic Interference and 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		
	M.E — Environmental Engineering	Nil	Nil
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
	MCA - Master of Computer Application	Nil	Nil

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

2018-19

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
21	B.E-Mechanical Engineering	1701MA301	Engineering Mathematics III
		1702ME301	Engineering Thermodynamics
		1702ME302	Engineering Materials and Metallurgy
		1702ME303	Fluid Mechanics and Machinery
		1702ME304	Strength of Materials
		1702ME305	Manufacturing Technology – I
		1702ME351	Machine Drawing- I
		1702ME352	Manufacturing Technology Laboratory – I
		1704ME353	Technical Seminar I
		1702ME354	Fluid Mechanics and Machinery Lab
		1704GE351	Life Skills: Soft Skills
		1702MA403	Numerical Methods and Statistics
		1702ME401	Thermal Engineering
		1702ME402	Measurements and Metrology
		1702ME403	Kinematics of Machines
		1702ME404	Design of Machine Elements
		1702ME405	Manufacturing Technology –II
		1702ME451	Thermal Engineering Laboratory
		1702ME452	Manufacturing Technology Laboratory – II
		1704ME453	Technical Seminar II
		1704GE451	Life Skills: Verbal Ability
4	M.E Manufacturing Engineering	1703MF011	Elective III - Rapid Prototyping
		1703MF016	Elective IV - Heat Treatment
		1703EV017	Elective V - Industrial Waste Management
5	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
3	B.E-Electrical and Electronics Engineering	1701MA301	Engineering Mathematics-III
		1704EE453	Technical Seminar II
		1704GE451	Life Skills: Verbal Ability
19	B.E-Electronics and Communication Engineering	1701MA301	Linear Algebra and Partial Differential Equations
		1702CS304	Data Structures and C++
		1702EC301	Network Analysis and Synthesis
		1702EC302	Engineering Electromagnetics
		1702EC303	Digital Circuits and Systems
		1702EC304	Electronics Circuits
		1702EC351	Digital Electronics Laboratory
		1702EC352	Electronic Circuits Laboratory
		1702CS351	Data Structures Laboratory
		1704GE351	Life Skills: Business English
		1701MA403	Probability and Random Processes
		1702EC402	Signals and Systems
		1702EC403	Analog Integrated Circuits
		1702EC404	Microprocessors and Microcontrollers
		1702EC405	Transmission Lines and Waveguides
		1702EC406	Control Systems
		1702EC451	Analog Integrated Circuits Laboratory
1702EC452	Microprocessors and Microcontrollers		

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 Dr. S. RAMABALAN, M.E., Ph.D.
 PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.

			Laboratory
		1704GE451	Life Skills: Verbal Ability
18	B.E-Computer Science and Engineering	1701MA301	Engineering Mathematics III
		1702CS301	Data Structures
		1702CS302	Computer Organization and Architecture
		1702CS303	Software Engineering
		1702CS304	Digital Systems
		1702CS305	Operating Systems
		1702CS351	Data Structures Laboratory
		1702CS352	Operating Systems Laboratory
		1704GE351	Life Skills: Soft Skills
		1701MA401	Probability and Queuing Theory
		1702CS401	Computer Networks
		1702CS402	Programming Paradigms
		1702CS403	Design and Analysis of Algorithms
		1702CS404	Microprocessors and Microcontrollers
		1702CSX02	Database Management Systems
		1702CS451	Networks Laboratory
		1702CSX52	Database Management Systems Laboratory
42	B.Tech -Information Technology	1702IT301	Data Structures and Algorithms
		1702IT302	Digital Principles and Design
		1702IT303	Principles of Communication
		1704GE351	Life Skills: Soft Skills
		1702IT401	Software Engineering and Project Management
		1702IT402	Java Programming
		1702IT403	Internet of Things
		1702IT451	Networks Lab
		1704GE451	Life Skills: Verbal Ability
		1702IT502	Distributed Computing
		1704GE551	Life Skills: Aptitude I
		1704IT552	Technical Seminar
		1703IT004	Theory of Computation
		1703IT005	Software Testing Methods and Tools
		1703IT006	Multicore Programming
		1703IT009	Embedded Systems
		1703IT010	Mainframe Computing
		1702IT604	Wireless Communication
		1704IT651	Mobile Application Development (Mini Project II)
		1704GE651	Life Skills: Aptitude II
		1704IT652	Industrial Visit Presentation
		1703MG002	Principles of Management
		1703IT012	Open Source Programming
		1703IT014	Computer Vision
		1702IT701	Data Analytics
		1702IT702	Security in Computing
		1702IT703	Cloud Infrastructure and Computing
		1703IT015	Information Management
		1704IT751	Software Development (Mini project III)
		1704GE751	Life Skills: Competitive Exam Preparation
		1704IT752	In Plant / Internship Training Presentation
		1703IT016	Data Centre and Virtualization
		1703IT017	Software Configuration Management
		1703IT018	Enterprise Resource Planning
		1703IT020	Robot Programming
		1703IT021	Natural Language Processing
		1703IT022	Service Oriented Architecture
		1703MG003	Human Rights
		1703IT026	Game Programming
		1703MG004	Intellectual Property Rights
		1703IT027	Deep Learning
		1703IT029	Visualization Techniques
		1703CP026	Design And Management of Computer Networks

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

S.S. Pillay Engineering College,
Thothu, Navare - 611 007,
Nagapattinam (Dt) Tamil Nadu.

M.E - Computer Science

	and Engineering	1703CP027	Design And Analysis of Parallel Algorithms
		1703CP028	Research Methodology
3	M.E — Power Electronics and Drives	1703PE018	Elective III- Optimization Techniques
		1703PE001	Elective IV - Recent trends in power conversion Technology
		1703EV020	Elective V-Environmental Engineering and Pollution Control
23	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	FPGA Based Communication System Design
		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
		1702CO301	Electromagnetic Interference and 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		
	M.E — Environmental Engineering	Nil	Nil
4	MBA - Master of Business Administration	1704BA107	Managerial Communication I
		1704BA109	Life Skills I
		1704BA210	Life Skills II
		1703BA009	International Trade Finance
		1703BA014	Entrepreneurship Development
	MCA - Master of Computer Application	Nil	Nil

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Dr. S. RAMABALAN, M.E., Ph.D.,

PRINCIPAL

E.G.S. Pillay Engineering College,

Thethi, Nagore - 611 002.

Nagepattinam (Dt) Tamil Nadu.



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)

Email: principal@egspec.org

website: www.egspec.org

Ph: 04365-251112

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.

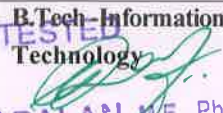
S.No	Programme Name	Course code	Name of the Course
17	B.E-Mechanical Engineering	1701MA101	Engineering Mathematics-I
		1701PH101	Applied Physics for Engineers
		1701EN101	Technical English
		1701CH102	Materials Chemistry
		1701GE104	Fundamentals of Mechanical Engineering
		1701GEX03	Programming in C
		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

Dr. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

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		


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

		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

Dr. S. RAJABALAN M.E. Ph.D.,
PRINCIPAL
 Jay Engineering College,
 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.

		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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Dr. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002.
 Nagapattinam (Dt) Tamil Nadu.