



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

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

ATTESTED

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
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		

ATTESTED



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

ATTESTED



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		

ATTESTED




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		

ATTESTED


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

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