



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

Content Focusing

B.E – Electrical and Electronic Engineering

OFFERING 2021-2022				
S.NO	Name of the course	Course Code	Activities/ Content with direct bearing on employability/ Entrepreneurship/ skill development	Year of Introduction (During the last five years)
1.	Engineering Mathematics-I (Calculus and Differential Equations)	1901MA103	SKILL DEVELOPMENT : DIFFERENTIAL CALCULUS, INTEGRAL CALCULUS, ORDINARY DIFFERENTIAL EQUATIONS, FOURIER SERIES, APPLICATION OF PARTIAL DIFFERENTIAL EQUATIONS	2019-2020
2.	Wave, Optics and Electromagnetism	1901PH102	EMPLOYABILITY: WAVES, NON-DISPERSIVE TRANSVERSE AND LONGITUDINAL WAVES, WAVE OPTICS, ELECTROSTATICS, MAGNETOSTATICS	2019-2020
3.	Electric Circuit Analysis	1901GE101	EMPLOYABILITY: DC CIRCUITS, AC CIRCUITS, NETWORK THEOREMS, RESONANT CIRCUITS, COUPLED CIRCUITS, TRANSIENT ANALYSIS, TWO PORT NETWORKS	2019-2020
4.	Engineering Intelligence I	1901GE151	SKILL DEVELOPMENT : ACTIVITIES ON FUNDAMENTALS OF INTER-PERSONAL COMMUNICATION , ACTIVITIES ON READING COMPREHENSION, ACTIVITIES ON PRESENTATION SKILLS, ACTIVITIES ON WRITING SKILLS, ACTIVITIES ON SOFT SKILLS	2019-2020
5.	CAD Lab	1901GEX51	EMPLOYABILITY:TWO-DIMENSIONAL DRAWING, EDITING, LAYERING AND DIMENSIONING - COORDINATE SYSTEMS-DRAWING PRACTICE - ORTHOGRAPHIC VIEWS OF SIMPLE SOLIDS USING CAD SOFTWARE	2019-2020
6.	Basic Electrical and Electronics Engineering Lab	1901GEX53	EMPLOYABILITY:WIRING, ENERGY METER, LOGIC GATES,AC AND DC CIRCUITS	2019-2020
7.	Engineering Physics Lab	1901PHX51	EMPLOYABILITY: WAVES, NON-DISPERSIVE TRANSVERSE AND LONGITUDINAL WAVES, WAVE OPTICS, ELECTROSTATICS, MAGNETOSTATICS	2019-2020
8.	Engineering Mathematics-II (Linear Algebra, Transform Calculus and Numerical Methods)	1901MA203	SKILL DEVELOPMENT : MATRICES, TRANSFORM CALCULUS, SOLUTION OF ALGEBRAIC AND TRANSCENDENTAL EQUATIONS, NUMERICAL METHODS OF ORDINARY DIFFERENTIAL	2019-2020

ATTESTED


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			EQUATIONS, NUMERICAL METHODS OF PARTIAL DIFFERENTIAL EQUATIONS	
9.	Applied Chemistry	1901CH202	SKILL DEVELOPMENT : ELECTROCHEMISTRY, POLARISATION AND OVER POTENTIAL, CONVENTIONAL ENERGY RESOURCES AND NON CONVENTIONAL ENERGY RESOURCES , STORAGE DEVICES, POWER PLANTS AND TRANSMISSION MATERIALS	2019-2020
10.	Programing for Problem Solving	1901GEX03	EMPLOYABILITY: INTODUCTION TO PROGRAMMING, BASICS OF C PROGRAMMING, ARRAYS AND STRINGS, FUNCTIONS AND POINTERS, STRUCTURES & FILE PROCESSING	2019-2020
11.	English for Engineers	1901ENX01	SKILL DEVELOPMENT : FOCUS ON LANGUAGE (VOCABULARY AND GRAMMAR), LISTENING SKILLS, SPEAKING SKILL, READING SKILLS, WRITING SKILLS	2019-2020
12.	Engineering Exploration	1901GE201	SKILL DEVELOPMENT : WHAT IS ENGINEERING?, ENGINEERING DESIGN, DEFINING PROBLEMS AND BRAINSTORMING, COMMUNICATING SOLUTION, MODELING AND TESTING FINAL OUTPUT, CIVIL ENGINEERING, MECHANICAL ENGINEERING: , ELECTRICAL ENGINEERING, COMPUTER ENGINEERING	2019-2020
13.	Engineering Intelligence II	1901GE252	SKILL DEVELOPMENT : VOCABULARY BULIDING, COMMUNICATION WORKSHOP, INTERPERSONAL SKILLS, LEADERSHIP& EMPLOYABILITY SKILLS, RESUME BUILDING	2019-2020
14.	Engineering Chemistry Lab	1901CHX51	SKILL DEVELOPMENT : ELECTROCHEMISTRY, POLARISATION AND OVER POTENTIAL, CONVENTIONAL ENERGY RESOURCES AND NON CONVENTIONAL ENERGY RESOURCES , STORAGE DEVICES, POWER PLANTS AND TRANSMISSION MATERIALS	2019-2020
15.	Basic Workshop Lab	1901GE253	SKILL DEVELOPMENT :CARPENTRY , LATH, WELDING , PLUMBING,WIRING	2019-2020
16.	Computer Programming Lab	1901GEX52	EMPLOYABILITY: INTODUCTION TO PROGRAMMING, BASICS OF C PROGRAMMING, ARRAYS AND STRINGS, FUNCTIONS AND POINTERS, STRUCTURES & FILE PROCESSING	2019-2020
17.	Communication Skill Lab	1901HSX51	SKILL DEVELOPMENT : FOCUS ON LANGUAGE (VOCABULARY AND GRAMMAR), LISTENING SKILLS, SPEAKING SKILL, READING SKILLS,	2019-2020

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			WRITING SKILLS	
18.	Engineering Mathematics-III (Complex Variables, Vector Calculus and Transforms)	1901MA303	SKILL DEVELOPMENT : ANALYTIC FUNCTIONS, VECTOR CALCULUS, COMPLEX INTEGRATION, FOURIER TRANSFORM, TRANSFORMS	2020-2021
19.	Analog Electronics	1902EE301	EMPLOYABILITY: ODES, BIPOLAR JUNCTION TRANSISTOR AND CIRCUITS, FIELD EFFECT TRANSISTOR CIRCUITS, DIFFERENTIAL AND POWER AMPLIFIERS, FEEDBACK AMPLIFIERS AND OSCILLATORS	2020-2021
20.	Digital Electronics	1902EE302	EMPLOYABILITY: NUMBER SYSTEM AND BOOLEAN ALGEBRA, COMBINATIONAL LOGIC CIRCUITS, SYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS, ASYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS , MEMORY DEVICES, PROGRAMMABLE LOGIC DEVICES AND LOGIC FAMILIES	2020-2021
21.	DC Machines and Transformers	1902EE303	EMPLOYABILITY: DC GENERATOR, DC MOTOR, TESTING AND APPLICATIONS OF DC MACHINES, TRANSFORMER, PERFORMANCE EVALUATION AND APPLICATIONS OF TRANSFORMER	2020-2021
22.	Object Oriented Programming	1902CS307	EMPLOYABILITY: INTRODUCTION TO C++, CONSTRUCTORS , INTRODUCTION TO JAVA, INHERITANCE AND POLYMORPHISM, PYTHON PROGRAMMING	2020-2021
23.	Analog Electronics Laboratory	1902EE351	EMPLOYABILITY: ODES, BIPOLAR JUNCTION TRANSISTOR AND CIRCUITS, FIELD EFFECT TRANSISTOR CIRCUITS, DIFFERENTIAL AND POWER AMPLIFIERS, FEEDBACK AMPLIFIERS AND OSCILLATORS	2020-2021
24.	DC Machines and Transformers Laboratory	1902EE352	EMPLOYABILITY: DC GENERATOR, DC MOTOR, TESTING AND APPLICATIONS OF DC MACHINES, TRANSFORMER, PERFORMANCE EVALUATION AND APPLICATIONS OF TRANSFORMER	2020-2021
25.	Object Oriented Programming Laboratory	1902CS355	EMPLOYABILITY: CONSTRUCTORS , INTRODUCTION TO JAVA, INHERITANCE AND POLYMORPHISM, PYTHON PROGRAMMING	2020-2021
26.	Life Skills: Soft Skill	1904GE351	SKILL DEVELOPMENT : INTRODUCTION TO SOFT SKILLS, TEAM VS TRUST, SELLING ONESELF, CORPORATE ETIQUETTE, LEARNING BY PRACTICE	2020-2021
27.	Generation, Transmission and Distribution	1902EE401	EMPLOYABILITY: ELECTRICAL POWER GENERATION, MECHANICAL DESIGN OF LINES,	2020-2021

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			AND INSULATORS, PARAMETERS OF TRANSMISSION LINES, AND UNDERGROUND CABLES, PERFORMANCE OF TRANSMISSION LINES, DISTRIBUTION SYSTEMS AND SUBSTATION	
28.	Synchronous and Asynchronous Machines	1902EE402	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR, STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR, SINGLE PHASE INDUCTION MOTOR & FRACTIONAL HP MOTORS	2020-2021
29.	Linear Integrated Circuits	1902EE403	EMPLOYABILITY: FABRICATION OF INTEGRATED CIRCUITS, OPERATIONAL AMPLIFIER, APPLICATIONS OF OPERATIONAL AMPLIFIERS, SIGNAL CONVERSION APPLICATIONS, SPECIAL FUNCTION INTEGRATED CIRCUITS	2020-2021
30.	Communication Engineering	1902EE404	EMPLOYABILITY: AMPLITUDE MODULATION SYSTEMS, ANGLE MODULATION SYSTEMS, SAMPLING AND QUANTIZATION, DIGITAL TRANSMISSION, CELLULAR COMMUNICATION	2020-2021
31.	Biology for Electrical Engineers	1901EE405	EMPLOYABILITY: BIOLOGY INTRODUCTION AND ITS CLASSIFICATION, GENETICS AND MACROMOLECULAR ANALYSIS, BIOMOLECULES AND ENZYMES, METABOLISM AND MICROBIOLOGY, BIO-INSPIRED ENGINEERING	2020-2021
32.	Synchronous and Asynchronous Machines Laboratory	1902EE451	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR, STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR, SINGLE PHASE INDUCTION MOTOR & FRACTIONAL HP MOTORS	2020-2021
33.	Analog and Digital Integrated Circuits Laboratory	1902EE452	EMPLOYABILITY: NUMBER SYSTEM AND BOOLEAN ALGEBRA, COMBINATIONAL LOGIC CIRCUITS, SYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS, ASYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS	2020-2021
34.	Life Skills: Verbal Reasoning	1904GE451	MEMORY DEVICES, PROGRAMMABLE LOGIC DEVICES AND LOGIC FAMILIES	2020-2021
35.	Measurements and Instrumentation	1902EE501	EMPLOYABILITY: BASICS OF MEASUREMENT SYSTEM, ELECTRICAL AND ELECTRONICS INSTRUMENTS, COMPARISON TYPE MEASURING INSTRUMENTS, STORAGE AND DISPLAY DEVICES, TRANSDUCERS AND DATA ACQUISITION SYSTEMS	2021-2022

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	Linear Control Systems	1902EE502	EMPLOYABILITY: SYSTEMS AND THEIR REPRESENTATION, TIME RESPONSE, FREQUENCY RESPONSE, STABILITY, DESIGN OF OMPENSATORS AND CONTROLLERS	2021-2022
37.	Power Electronics	1902EE503	EMPLOYABILITY: POWER SEMICONDUCTOR DEVICES, PHASE CONTROLLED CONVERTERS, DC TO DC CONVERTERS, INVERTERS, AC TO AC CONVERTERS	2021-2022
38.	Control and Instrumentation Laboratory	1902EE551	EMPLOYABILITY: FREQUENCY RESPONSE, STABILITY, DESIGN OF OMPENSATORS AND CONTROLLERS	2021-2023
39.	Life Skills: Aptitude I	1904GE551	SKILL DEVELOPMENT : INTRODUCTION TO NUMBER SYSTEM, BASIC SHORTCUTS OF ADDITION, MULTIPLICATION, DIVISION, RATIO AND PROPORTION, AVERAGES, PERCENTAGES, PROFIT AND LOSS, CODING AND DECODING, DIRECTION SENSE, NUMBER AND LETTER SERIES NUMBER AND LETTER ANALOGIES, ODD MAN OUT	2021-2022
40.	Solid State Drives	1902EE601	EMPLOYABILITY: DRIVE CHARACTERISTICS, DC MOTOR DRIVE, CLOSED LOOP CONTROL OF DC DRIVE, INDUCTION MOTOR DRIVE, SYNCHRONOUS MOTOR DRIVE	2021-2022
41.	Power System Analysis	1902EE602	EMPLOYABILITY: MODELING OF POWER SYTEM COMPONENTS, LOAD FLOW ANALYSIS, SYMMETRICAL FAULT ANALYSIS, UNSYMMETRICAL FAULT ANALYSIS, STABILITY STUDIES & COMPUTATIONAL METHODS IN ELECTRICAL POWER SYSTEM	2021-2022
42.	Microprocessors and Microcontrollers	1902EE603	EMPLOYABILITY: 8085 MICROPROCESSOR, PROGRAMMING OF 8085, 8051 MICROCONTROLLER, PERIPHERAL INTERFACING, MICROCONTROLLER BASED SYSTEM DESIGN	2021-2022
43.	Power Electronics and Drives Laboratory	1902EE651	EMPLOYABILITY: POWER SEMICONDUCTOR DEVICES, PHASE CONTROLLED CONVERTERS, DC TO DC CONVERTERS, INVERTERS, AC TO AC CONVERTERS	2021-2022
44.	Microprocessors and Microcontrollers Laboratory	1902EE652	EMPLOYABILITY: 8085 MICROPROCESSOR, PROGRAMMING OF 8085, 8051 MICROCONTROLLER, PERIPHERAL INTERFACING, MICROCONTROLLER BASED SYSTEM DESIGN	2021-2022
45.	Life Skills: Aptitude II &	1904GE651	SKILL DEVELOPMENT : PARTNERSHIP, MIXTURES	2021-2022

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	GD		AND ALLEGATIONS, PROBLEM ON AGES, SIMPLE INTEREST, COMPOUND INTEREST, BLOOD RELATIONS, CLOCKS, CALENDARS, TIME AND DISTANCE, TIME AND WORK, DATA INTERPRETATION AND DATA SUFFICIENCY, ANALYTICAL AND CRITICAL REASONING	
46.	Special Electrical Machines	1903EE001	EMPLOYABILITY: SYNCHRONOUS RELUCTANCE MOTOR, STEPPER MOTORS, SWITCHED RELUCTANCE MOTORS, PERMANENT MAGNET BRUSHLESS DC MOTORS, PERMANENT MAGNET , SYNCHRONOUS MOTOR	2021-2022
47.	Electrical Machine Design	1903EE002	EMPLOYABILITY: INTRODUCTION TO MACHINE DESIGN, DC MACHINES, TRANSFORMERS, INDUCTION MOTORS, SYNCHRONOUS MACHINES	2021-2022
48.	Electric and Hybrid Vehicles	1903EE003	EMPLOYABILITY: INTRODUCTION TO ELECTRIC VEHICLES, ENGINES AND POWER TRAIN COMPONENTS, ELECTRIC VEHICLE ARCHITECTURE, ENERGY STORAGE SYSTEMS, ELECTRIC MACHINES AND POWER ELECTRONICS FOR HYBRID ELECTRIC VEHICLES	2021-2022
49.	Micro Electro Mechanical System	1903EE004	EMPLOYABILITY: MICRO-FABRICATION, MATERIALS AND ELECTRO-MECHANICAL CONCEPTS, ELECTROSTATIC SENSORS AND ACTUATION , THERMAL SENSING AND ACTUATION, PIEZOELECTRIC SENSING AND ACTUATION , CASE STUDIES	2021-2022
50.	Automotive Electronics	1903EE005	EMPLOYABILITY: OVERVIEW OF AUTOMOTIVE SYSTEMS, AUTOMOTIVE TRANSMISSIONS, AUTOMOTIVE SENSORS AND ACTUATORS , MICROCONTROLLERS/MICROPROCESSORS IN AUTOMOTIVE DOMAIN, SAFETY SYSTEMS IN AUTOMOBILES AND DIAGNOSTIC SYSTEMS	2021-2022
51.	Industrial Automation	1903EE006	EMPLOYABILITY: PROCESS CONTROL, CONTROLLER PRINCIPLES, ANALOG CONTROLLERS, PROGRAMMABLE LOGIC CONTROLLERS, DISTRIBUTED CONTROL SYSTEM	2021-2022
52.	Bio-Medical Instrumentation	1903EE007	EMPLOYABILITY: BASIC CONCEPTS OF BIO MEDICAL INSTRUMENTATION, BIO POTENTIALS AND MEASUREMENTS, BLOOD FLOW, PRESSURE, SOUND, CELL COUNTERS MEASUREMENT, THERAPEUTIC DEVICES, MEDICAL IMAGING SYSTEMS	2021-2022

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	Power Plant Engineering	1903EE008	EMPLOYABILITY: COAL BASED THERMAL POWER PLANTS, HYDRO POWER PLANTS, DIESEL AND GAS POWER PLANTS, NUCLEAR POWER PLANTS, RENEWABLE ENERGY BASED POWER PLANTS	2021-2022
54.	Advanced Power Semiconductor Devices	1903EE009	EMPLOYABILITY: INTRODUCTION, CURRENT CONTROLLED DEVICES, VOLTAGE CONTROLLED DEVICES, FIRING AND PROTECTION CIRCUITS, INTRODUCTION TO WIDE BAND GAP DEVICES	2021-2022
55.	Modern Power Converters	1903EE010	EMPLOYABILITY: DC-AC CONVERTERS, AC-DC CONVERTERS, SWITCHED MODE POWER SUPPLIES (SMPS), AC-AC CONVERTERS WITH AND WITHOUT DC LINK, SOFT-SWITCHING POWER CONVERTERS	2021-2022
56.	Professional Ethics	1701MGX01	ENTREPRENEURSHIP: ENGINEERING ETHICS, ENGINEERING AS SOCIAL EXPERIMENTATION, ENGINEER'S RESPONSIBILITY FOR SAFETY, RESPONSIBILITIES AND RIGHTS, GLOBAL ISSUES	2021-2022
57.	Protection and Switchgear	1702EE701	EMPLOYABILITY: INTRODUCTION TO PROTECTION SCHEMES, PROTECTIVE RELAYS AND RELAY CHARACTERISTICS, APPARATUS AND TRANSMISSION LINE PROTECTION, THEORY OF SWITCHING AND ARCING PHENOMENON, CIRCUIT BREAKERS	2020-2021
58.	Power System Operation and Control	1702EE702	EMPLOYABILITY: LOAD CHARACTERISTICS, REAL POWER - FREQUENCY CONTROL, REACTIVE POWER-VOLTAGE CONTROL, UNIT COMMITMENT & ECONOMIC DISPATCH, COMPUTER CONTROL OF POWER SYSTEMS	2020-2021
59.	High Voltage Engineering	1702EE703	EMPLOYABILITY: OVERVOLTAGE PHENOMENON, DIELECTRIC BREAKDOWN IN LIQUID, SOLID AND GASEOUS DIELECTRICS, GENERATION OF HIGH VOLTAGE AND CURRENT, MEASUREMENT OF HIGH VOLTAGE AND CURRENT, HIGH VOLTAGE TESTING AND INSULATION COORDINATION	2020-2021
60.	Electric and Hybrid Vehicles (Elective-V)	1703EE010	EMPLOYABILITY: ELECTRIC VEHICLES, ENERGY STORAGE AND BATTERY TECHNOLOGY, CHARGING AND STARTING SYSTEMS, HYBRID ELECTRIC VEHICLE DRIVE TRAIN AND SAFETY, EMERGING TECHNOLOGIES	2020-2021
61.	Startup Entrepreneurship	1703ED001	ENTREPRENEURSHIP	2020-2021
62.	Power System Simulation Laboratory	1702EE751	EMPLOYABILITY: POWER SYSTEM MODEL, LOAD	2020-2021

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63.	Computer Aided Electrical Drawing Laboratory	1702EE752	EMPLOYABILITY: SINGLE LINE ELECTRICAL DRAWINGS USING SOFTWARE , WINDING DIAGRAM	2020-2021
64.	Flexible AC Transmission Systems (Elective-VII)	1703EE017	EMPLOYABILITY: INTRODUCTION TO FACTS DEVICES, STATIC VAR COMPENSATOR (SVC) AND APPLICATIONS, THYRISTOR CONTROLLED SERIES CAPACITOR (TCSC) AND APPLICATIONS, VOLTAGE SOURCE CONVERTER BASED FACTS CONTROLLERS, CO-ORDINATION OF FACTS CONTROLLERS	2020-2021
65.	Power Electronics for Renewable Energy Systems	1703EE018	EMPLOYABILITY: INTRODUCTION TO RENEWABLE ENERGY CONVERSION, ELECTRICAL MACHINES FOR RENEWABLE ENERGY CONVERSION, POWER CONVERTERS, ANALYSIS OF WIND AND PV SYSTEMS, HYBRID RENEWABLE ENERGY SYSTEMS	2020-2021
66.	Electrical Energy Generation, Utilization and Conservation	1703EE019	EMPLOYABILITY: ELECTRIC DRIVES AND TRACTION, ILLUMINATION, HEATING AND WELDING, SOLAR RADIATION, SOLARENERGY COLLECTORS AND WIND ENERGY, ENERGY AND ECONOMIC ASPECTS OF GENERATION	2020-2021

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