



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 2018-2019				
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	1701MA101	SKILL DEVELOPMENT :EIGENVALUES AND EIGENVECTORS OF A REAL MATRIX,CIRCLE OF CURVATURE IN CARTESIAN AND PARAMETRIC FORM,MAXIMA AND MINIMA , AREA AS A DOUBLE INTEGRAL AND VOLUME AS TRIPLE INTEGRAL	2017-2018
2.	Applied Physics for Engineers	1701PH101	SKILL DEVELOPMENT : PROPERTIES OF MATTER,APPLIED OPTICS,ULTRASONICS,SOLID STATE PHYSICS,QUANTUM MECHANICS	2017-2018
3.	Applied Chemistry	1701CH104	SKILL DEVELOPMENT : LISTENING COMPREHENSION,READING COMPREHENSION, SPEAKING, AND WRITING.	2017-2018
4.	Technical English	1701EN101	SKILL DEVELOPMENT : ELECTRO CHEMISTRY , CORROSION AND ITS CONTROL,NON CONVENTIONAL ENERGY RESOURCES AND STORAGE DEVICES,POLYMER AND ITS APPLICATION,INSTRUMENTAL TECHNIQUES OF CHEMICAL ANALYSIS	2017-2018
5.	Basic Mechanical Engineering	1701GE103	EMPLOYABILITY:GENERAL & BASICS OF SURVEYING, BUILDING MATERIALS, FOUNDATIONS & SUPERSTRUCTURE, BASICS OF SOLID MECHANICS, FLUID PROPERTIES	2017-2018
6.	Basic Civil Engineering	1701GE102	EMPLOYABILITY:POWER PLANT ENGINEERING, IC ENGINES, REFRIGERATION AND AIR CONDITIONING SYSTEM, BASIC CONCEPTS AND FORCE SYSTEM, MANUFACTURING PROCESSES	2017-2018
7.	Workshop Practice	1701GEX53	EMPLOYABILITY: PROPERTIES OF MATTER,APPLIED OPTICS,ULTRASONICS,SOLID STATE PHYSICS,QUANTUM MECHANICS,	2017-2018

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			ELECTRO CHEMISTRY , CORROSION AND ITS CONTROL, NON CONVENTIONAL ENERGY RESOURCES AND STORAGE DEVICES, POLYMER AND ITS APPLICATION, INSTRUMENTAL TECHNIQUES OF CHEMICAL ANALYSIS	
8.	Physics and Chemistry Laboratory –I	1701HS151	SKILL DEVELOPMENT : BUILDING VOCABULARY , READING COMPREHENSION , WRITING SKILLS , PRESENTATION SKILLS , GROUP DISCUSSION AND INTERVIEW SKILL	2017-2018
9.	Communication Skills Laboratory	1701GEX52	SKILL DEVELOPMENT : CARPENTRY , LATH, WELDING , PLUMBING, WIRING	2017-2018
10.	Engineering Mathematics-II	1701MA201	SKILL DEVELOPMENT : ANALYTIC FUNCTIONS, COMPLEX INTEGRATION, MULTIPLE INTEGRAL, VECTOR CALCULUS, LAPLACE TRANSFORM	2017-2018
11.	Semiconductor Physics and Devices	1701PH202	EMPLOYABILITY: QUANTUM THEORY OF SOLIDS, SEMICONDUCTOR PHYSICS, JUNCTION DIODE CHARACTERISTICS, DIELECTRICS, MAGNETIC MATERIALS	2017-2018
12.	Environmental Studies	1701CH201	EMPLOYABILITY: ECOSYSTEMS AND BIODIVERSITY, NATURAL RESOURCES, ENVIRONMENTAL POLLUTION, SOCIAL ISSUES AND THE ENVIRONMENT, HUMAN POPULATION AND THE ENVIRONMENT	2017-2018
13.	Communicative English	1701LE201	SKILL DEVELOPMENT: PLANE CURVES AND FREEHAND SKETCHING, PROJECTION OF POINTS, LINES AND PLANE SURFACES, PROJECTION OF SOLIDS, PROJECTION OF SECTIONED SOLIDS AND DEVELOPMENT OF SURFACES, ISOMETRIC AND PERSPECTIVE PROJECTIONS	2017-2018
14.	Electric Circuit Analysis	1702EE201	EMPLOYABILITY: DC CIRCUITS, AC CIRCUITS, THREE PHASE CIRCUITS AND NETWORK TOPOLOGY, TRANSIENT ANALYSIS AND TWO PORT NETWORKS, RESONANCE AND COUPLED CIRCUITS	2017-2018
15.	Programming in C	1701GEX03	EMPLOYABILITY: BASIC CONCEPTS, INTRODUCTION TO C LANGUAGE, ARRAYS AND	2017-2018

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			STRINGS,FUNCTIONS & STRUCTURES,POINTERS & FILES	
16.	Engineering Graphics	1701GEX02	SKILL DEVELOPMENT : LISTENING COMPREHENSION,READING COMPREHENSION, SPEAKING, AND WRITING.	2017-2018
17.	Physics and Chemistry Laboratory –II	1701HS251	EMPLOYABILITY: ARRAYS AND STRINGS,FUNCTIONS & STRUCTURES,POINTERS & FILES	2017-2018
18.	Programming in C Laboratory	1701GEX51	EMPLOYABILITY: QUANTUM THEORY OF SOLIDS, SEMICONDUCTOR PHYSICS, JUNCTION DIODE CHARACTERISTICS,DIELECTRICS,MAGNETIC MATERIALS, ECOSYSTEMS AND BIODIVERSITY,NATURAL RESOURCES,ENVIRONMENTAL POLLUTION,SOCIAL ISSUES AND THE ENVIRONMENT,HUMAN POPULATION AND THE ENVIRONMENT	2017-2018
19.	Engineering Mathematics-III	1701MA301	SKILL DEVELOPMENT : FOURIER SERIES, FOURIER TRANSFORMS, PARTIAL DIFFERENTIAL EQUATIONS, APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS, TRANSFORMS AND DIFFERENCE EQUATIONS	2018-2019
20.	Electron Devices and Circuits	1702EE301	EMPLOYABILITY: DIODES, BIPOLAR JUNCTION TRANSISTOR CIRCUITS, FIELD EFFECT TRANSISTOR CIRCUITS, DIFFERENTIAL AND POWER AMPLIFIERS, FEEDBACK AMPLIFIERS AND OSCILLATORS	2018-2019
21.	Digital Electronics	1702EE302	EMPLOYABILITY: NUMBER SYSTEM AND BOOLEAN ALGEBRA, COMBINATIONAL CIRCUITS, SYNCHRONOUS SEQUENTIAL CIRCUITS, ASYNCHRONOUS SEQUENTIAL CIRCUITS, MEMORY DEVICES, PROGRAMMABLE LOGIC DEVICES AND LOGIC FAMILIES	2018-2019
22.	Electromagnetic Theory	1702EE303	EMPLOYABILITY: INTRODUCTION TO VECTOR CALCULUS, STATIC ELECTRIC FIELDS, MAGNETOSTATICS, FORCE, TORQUE AND INDUCTANCE, MAXWELLS EQUATIONS AND TIME VARYING FIELDS	2018-2019

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	Power Plant Engineering	1702EE304	EMPLOYABILITY: COAL BASED THERMAL POWER PLANTS , HYDRO POWER PLANTS, DIESEL AND GAS POWER PLANTS, NUCLEAR POWER PLANTS, POWER FROM RENEWABLE ENERGY	2018-2019
24.	Electrical Machinery-I	1702EE305	EMPLOYABILITY: INTRODUCTION TO MACHINERY CONCEPTS, DC GENERATOR, DC MOTOR, TRANSFORMER, TESTING & APPLICATIONS OF ELECTRICAL MACHINES	2018-2019
25.	Electrical Machinery Laboratory-I	1702EE351	EMPLOYABILITY: DC SERIES MOTOR, DC SHUNT MOTOR, DC COMPOUND MOTOR, TRANSFORMER	2018-2019
26.	Electron Devices and Circuits Laboratory	1702EE352	EMPLOYABILITY: DIODES, BIPOLAR JUNCTION TRANSISTOR CIRCUITS, FIELD EFFECT TRANSISTOR CIRCUITS, DIFFERENTIAL AND POWER AMPLIFIERS, FEEDBACK AMPLIFIERS AND OSCILLATORS	2018-2019
27.	Life Skills: Soft Skills	1704GE351	SKILL DEVELOPMENT : INTRODUCTION TO SOFT SKILLS, TEAM VS TRUST, SELLING ONESELF, CORPORATE ETIQUETTES, LEARNING BY PRACTICE	2018-2019
28.	Numerical Methods and Statistics	1701MA403	SKILL DEVELOPMENT : INTERPOLATION AND APPROXIMATION, NUMERICAL DIFFERENTIATION, NUMERICAL INTEGRATION, SOLUTION OF ALGEBRAIC AND TRANSCENDENTAL EQUATIONS, TESTING OF HYPOTHESIS	2018-2019
29.	Measurements and Instrumentation	1702EE401	EMPLOYABILITY: INTRODUCTION OF MEASURING INSTRUMENTS, ELECTRICAL AND ELECTRONICS INSTRUMENTS, COMPARISON METHODS OF MEASUREMENTS, STORAGE AND DISPLAY DEVICES, TRANSDUCERS AND DATA ACQUISITION SYSTEMS	2018-2019
30.	Linear Integrated Circuits	1702EE402	EMPLOYABILITY: FABRICATION OF INTEGRATED CIRCUITS, OPERATIONAL AMPLIFIER, APPLICATIONS OF OPERATIONAL AMPLIFIER, SIGNAL CONVERTERS, SPECIAL FUNCTION INTEGRATED CIRCUITS	2018-2019
31.	Transmission and	1702EE403	EMPLOYABILITY: INTRODUCTION TO	2018-2019

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	Distribution		TRANSMISSION AND DISTRIBUTION SYSTEM, PARAMETERS OF TRANSMISSION LINE, MODELLING AND PERFORMANCE OF TRANSMISSION LINES, INSULATORS AND UNDERGROUND CABLES, MECHANICAL DESIGN OF LINES AND GROUNDING	
32.	Electrical Machinery-II	1702EE404	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR, SINGLE PHASE INDUCTION MOTOR & FRACTIONAL HORSE POWER MOTOR	2018-2019
33.	Communication Engineering	1702EC406	EMPLOYABILITY: DIGITAL TRANSMISSION, CELLULAR COMMUNICATION, SAMPLING AND QUANTIZATION, ANGLE MODULATION SYSTEMS AMPLITUDE MODULATION SYSTEMS	2018-2019
34.	Electrical Machinery Laboratory-II	1702EE451	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR, SINGLE PHASE INDUCTION MOTOR & FRACTIONAL HORSE POWER MOTOR	2018-2019
35.	Analog and Digital Integrated Circuits Laboratory	1702EE452	EMPLOYABILITY: SYNCHRONOUS SEQUENTIAL CIRCUITS, ASYNCHRONOUS SEQUENTIAL CIRCUITS, MEMORY DEVICES, PROGRAMMABLE LOGIC DEVICES AND LOGIC FAMILIES	2018-2019
36.	Life Skills: Verbal Ability	1704GE451	SKILL DEVELOPMENT : COMPREHENSION ABILITY, VOCABULARY USAGE, BASIC GRAMMAR AND ERROR DETECTION, REARRANGEMENT AND GENERAL USAGE, APPLICATION OF VERBAL ABILITY	2018-2019
37.	Power System Analysis	EE6501	EMPLOYABILITY: INTRODUCTION, POWER FLOW ANALYSIS, FAULT ANALYSIS – BALANCED FAULTS, FAULT ANALYSIS – UNBALANCED FAULTS, STABILITY ANALYSIS	2017-2018

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	Microprocessors and Microcontrollers	EE6502	EMPLOYABILITY: 8085 PROCESSOR, PROGRAMMING OF 8085 PROCESSOR, 8051 MICRO CONTROLLER, PERIPHERAL INTERFACING, MICRO CONTROLLER PROGRAMMING & APPLICATIONS	2017-2018
39.	Power Plant Engineering	ME6701	EMPLOYABILITY: COAL BASED THERMAL POWER PLANTS, DIESEL, GAS TURBINE AND COMBINED CYCLE POWER PLANTS, NUCLEAR POWER PLANTS, POWER FROM RENEWABLE ENERGY, ENERGY, ECONOMIC AND ENVIRONMENTAL ISSUES OF POWER PLANTS	2017-2018
40.	Power Electronics	EE6503	EMPLOYABILITY: POWER SEMI-CONDUCTOR DEVICES, PHASE-CONTROLLED CONVERTERS, DC TO DC CONVERTER, INVERTERS, AC TO AC CONVERTERS	2017-2018
41.	Electrical Machines - II	EE6504	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR, STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR, SINGLE PHASE INDUCTION MOTORS AND SPECIAL MACHINES	2017-2018
42.	Control Systems	IC6501	EMPLOYABILITY: SYSTEMS AND THEIR REPRESENTATION, TIME RESPONSE, FREQUENCY RESPONSE, STABILITY AND COMPENSATOR DESIGN, STATE VARIABLE ANALYSIS	2017-2018
43.	Communication and Soft Skills- Laboratory Based	GE6674	EMPLOYABILITY: LISTENING AND SPEAKING SKILLS, READING AND WRITING SKILLS, ENGLISH FOR NATIONAL AND INTERNATIONAL EXAMINATIONS AND PLACEMENTS, INTERVIEW SKILLS, SOFT SKILLS	2017-2018
44.	Control and Instrumentation Laboratory	EE6511	EMPLOYABILITY: SYSTEMS AND THEIR REPRESENTATION, TIME RESPONSE, FREQUENCY RESPONSE, STABILITY AND COMPENSATOR DESIGN, STATE VARIABLE ANALYSIS	2017-2018
45.	Electrical Machines Laboratory - II	EE6512	EMPLOYABILITY: SYNCHRONOUS GENERATOR, SYNCHRONOUS MOTOR, THREE PHASE INDUCTION MOTOR, STARTING AND SPEED CONTROL OF THREE PHASE INDUCTION MOTOR,	2017-2018

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			SINGLE PHASE INDUCTION MOTORS AND SPECIAL MACHINES	
46.	Communication Engineering	EC6651	EMPLOYABILITY: ANALOG COMMUNICATION, DIGITAL COMMUNICATION, SOURCE CODES, LINE CODES & ERROR CONTROL, MULTIPLE ACCESS TECHNIQUES, SATELLITE, OPTICAL FIBER – POWERLINE, SCADA	2017-2018
47.	Solid State Drives	EE6601	EMPLOYABILITY: DRIVE CHARACTERISTICS, CONVERTER / CHOPPER FED DC MOTOR DRIVE, INDUCTION MOTOR DRIVES, SYNCHRONOUS MOTOR DRIVES, DESIGN OF CONTROLLERS FOR DRIVES	2017-2018
48.	Embedded Systems	EE6602	EMPLOYABILITY: INTRODUCTION TO EMBEDDED SYSTEMS, EMBEDDED NETWORKING, EMBEDDED FIRMWARE DEVELOPMENT ENVIRONMENT, RTOS BASED EMBEDDED SYSTEM DESIGN, EMBEDDED SYSTEM APPLICATION DEVELOPMENT	2017-2018
49.	Power System Operation and Control	EE6603	EMPLOYABILITY: INTRODUCTION, REAL POWER - FREQUENCY CONTROL, REACTIVE POWER-VOLTAGE CONTROL, UNIT COMMITMENT AND ECONOMIC DISPATCH, COMPUTER CONTROL OF POWER SYSTEMS	2017-2018
50.	Design of Electrical Machines	EE6604	EMPLOYABILITY: INTRODUCTION, DC MACHINES, TRANSFORMERS, INDUCTION MOTORS, SYNCHRONOUS MACHINES	2017-2018
51.	Power System Transients	EE6002	EMPLOYABILITY: INTRODUCTION AND SURVEY, SWITCHING TRANSIENTS, LIGHTNING TRANSIENTS, TRAVELING WAVES ON TRANSMISSION LINE COMPUTATION OF TRANSIENTS, TRANSIENTS IN INTEGRATED POWER SYSTEM	2017-2018
52.	Power Electronics and Drives Laboratory	EE6611	EMPLOYABILITY: POWER SEMI-CONDUCTOR DEVICES, PHASE-CONTROLLED CONVERTERS, DC TO DC CONVERTER, INVERTERS, AC TO AC CONVERTERS	2017-2018
53.	Microprocessors and Microcontrollers	EE6612	EMPLOYABILITY: 8085 PROCESSOR, PROGRAMMING OF 8085 PROCESSOR, 8051	2017-2018

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	Laboratory		MICRO CONTROLLER, PERIPHERAL INTERFACING, MICRO CONTROLLER PROGRAMMING & APPLICATIONS	
54.	Presentation Skills and Technical Seminar	EE6613	SKILL DEVELOPMENT :PRESENTATION SKILLS AND TECHNICAL SEMINAR	2017-2018
55.	High Voltage Engineering	EE6701	EMPLOYABILITY:OVER VOLTAGES IN ELECTRICAL POWER SYSTEMS, DIELECTRIC BREAKDOWN, GENERATION OF HIGH VOLTAGES AND HIGH CURRENTS, MEASUREMENT OF HIGH VOLTAGES AND HIGH CURRENTS, HIGH VOLTAGE TESTING & INSULATION COORDINATION	2017-2018
56.	Protection and Switchgear	EE6702	EMPLOYABILITY:PROTECTION SCHEMES, ELECTROMAGNETIC RELAYS, APPARATUS PROTECTION, STATIC RELAYS AND NUMERICAL PROTECTION, CIRCUIT BREAKERS	2017-2018
57.	Special Electrical Machines	EE6703	EMPLOYABILITY: STEPPER MOTORS, SYNCHRONOUS RELUCTANCE MOTORS, SWITCHED RELUCTANCE MOTORS (SRM), PERMANENT MAGNET BRUSHLESS D.C. MOTORS, PERMANENT MAGNET SYNCHRONOUS MOTORS (PMSM)	2017-2018
58.	Principles of Management	MG6851	EMPLOYABILITY: INTRODUCTION TO MANAGEMENT AND ORGANIZATIONS, PLANNING, ORGANISING DIRECTING, CONTROLLING	2017-2018
59.	Flexible AC Transmission Systems	EE6004	EMPLOYABILITY: INTRODUCTION, STATIC VAR COMPENSATOR (SVC) AND APPLICATIONS, THYRISTOR CONTROLLED SERIES CAPACITOR (TCSC) AND, APPLICATIONS, VOLTAGE SOURCE CONVERTER BASED FACTS CONTROLLERS, CO-ORDINATION OF FACTS CONTROLLERS	2017-2018
60.	Microcontroller Based System Design	EE6008	EMPLOYABILITY: INTRODUCTION TO PIC MICROCONTROLLER, INTERRUPTS AND TIMER, PERIPHERALS AND INTERFACING, INTRODUCTION TO ARM PROCESSOR, ARM ORGANIZATION	2017-2018
61.	Power System Simulation Laboratory	EE6711	EMPLOYABILITY: POWER FLOW ANALYSIS, FAULT ANALYSIS – BALANCED FAULTS, FAULT ANALYSIS – UNBALANCED FAULTS, STABILITY ANALYSIS	2017-2018

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62.	Biomedical Instrumentation	EI6704	EMPLOYABILITY: FUNDAMENTALS OF BIOMEDICAL ENGINEERING, NON ELECTRICAL PARAMETERS MEASUREMENT AND DIAGNOSTIC PROCEDURES, ELECTRICAL PARAMETERS ACQUISITION AND ANALYSIS, IMAGING MODALITIES AND ANALYSIS, LIFE ASSISTING, THERAPEUTIC AND ROBOTIC DEVICES	2017-2018
63.	Electric Energy Generation, Utilization and Conservation	EE6801	EMPLOYABILITY: ELECTRIC DRIVES AND TRACTION, ILLUMINATION, HEATING AND WELDING, SOLAR RADIATION AND SOLAR ENERGY COLLECTORS, WIND ENERGY	2017-2018
64.	Power Electronics for Renewable Energy Systems	EE6009	EMPLOYABILITY: INTRODUCTION, ELECTRICAL MACHINES FOR RENEWABLE ENERGY CONVERSION, POWER CONVERTERS, ANALYSIS OF WIND AND PV SYSTEMS, HYBRID RENEWABLE ENERGY SYSTEMS	2017-2018
65.	Professional Ethics in Engineering	GE6075	SKILL DEVELOPMENT : GLOBAL ISSUES, SAFETY, RESPONSIBILITIES AND RIGHTS, ENGINEERING AS SOCIAL EXPERIMENTATION, ENGINEERING ETHICS, HUMAN VALUES	2017-2018
66.	Project Work	EE6811	SKILL DEVELOPMENT : SOLVE A SPECIFIC PROBLEM RIGHT FROM ITS IDENTIFICATION AND LITERATURE REVIEW TILL THE SUCCESSFUL SOLUTION OF THE SAME.	2017-2018

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