



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

Project Work Phase-II	1704PE401	EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT	2018-2019
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Content Focusing

M.E – Power electronics and Drives

OFFERING 2021-2022

S.N O	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.	Modelling and Analysis of Electrical Machines	2101PE101	EMPLOYABILITY: BASIC CONCEPTS OF MODELING, DC MACHINE MODELING, TRANSFORMER MODELING, INDUCTION MACHINE MODELING, SPECIAL MACHINES	2021-2022
2.	Analysis and Design of Power Converters	2102PE102	EMPLOYABILITY:SINGLE PHASE AC-DC CONVERTER, THREE PHASE AC-DC CONVERTER, DC-DC CONVERTERS, AC VOLTAGE CONTROLLERS, CYCLOCONVERTERS	2021-2022
3.	Analysis and Design of Inverters	2102PE103	EMPLOYABILITY:BASIC INVERTERS, VOLTAGE SOURCE INVERTERS, CURRENT SOURCE AND IMPEDANCE SOURCE INVERTERS, MULTILEVEL INVERTERS, RESONANT INVERTERS	2021-2022
4.	Program Elective – I Solar And Energy Storage System	2103PE004	EMPLOYABILITY: INTRODUCTION , STAND ALONE PV SYSTEM, GRID CONNECTED PV SYSTEMS, ENERGY STORAGE SYSTEMS, APPLICATIONS	2021-2022
5.	Program Elective – II Power Quality	2103PE006	EMPLOYABILITY: INTRODUCTION, SHORT INTERRUPTIONS AND LONG INTERRUPTIONS,	2021-2022

ATTESTED

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

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



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			VOLTAGE SAGS AND TRANSIENTS , HARMONICS, POWER QUALITY SOLUTIONS	
6.	Audit Course – I CONSTITUTION OF INDIA	2101AU005	EMPLOYABILITY: HISTORY OF MAKING OF THE INDIAN CONSTITUTION, PHILOSOPHY OF THE INDIAN CONSTITUTION, CONTOURS OF CONSTITUTIONAL RIGHTS AND DUTIES, ORGANS OF GOVERNANCE, LOCAL ADMINISTRATION	2021-2022
7.	Power Electronic Circuits Laboratory	2102PE104	EMPLOYABILITY: SINGLE PHASE AC-DC CONVERTER, THREE PHASE AC-DC CONVERTER, DC-DC CONVERTERS, AC VOLTAGE CONTROLLERS, CYCLOCONVERTERS	2021-2022
8.	Power Electronics Simulation Laboratory	2102PE105	EMPLOYABILITY: THREE PHASE AC-DC CONVERTER, DC-DC CONVERTERS, AC VOLTAGE CONTROLLERS, CYCLOCONVERTERS, MULTI LEVEL INVERTER	2021-2022
9.	Solid State DC Drives	2102PE201	EMPLOYABILITY: DC MOTORS FUNDAMENTALS AND MECHANICAL SYSTEMS, CONVERTER CONTROL, CHOPPER CONTROL , CLOSED LOOP CONTROL, DIGITAL CONTROL OF DC DRIVE	2021-2022
10.	Solid State AC Drives	2102PE202	EMPLOYABILITY: INTRODUCTION TO INDUCTION MOTORS, VSI AND CSI FED INDUCTION MOTOR CONTROL, ROTOR CONTROLLED INDUCTION MOTOR DRIVES , FIELD ORIENTED CONTROL, SYNCHRONOUS MOTOR DRIVES	2021-2022
11.	Program Elective – III Special Machines and Their Controllers	2103PE011	EMPLOYABILITY: STEPPER MOTORS, SWITCHED RELUCTANCE MOTORS, PERMANENT MAGNET BRUSHLESS DC MOTORS, PERMANENT MAGNET SYNCHRONOUS MOTORS, LINEAR AND SERVO MOTORS	2021-2022
12.	Program Elective – IV Electric Vehicles and Power Management	2103PE015	EMPLOYABILITY: ELECTRIC VEHICLES AND VEHICLE MECHANICS, ARCHITECTURE OF EV'S AND POWER TRAIN COMPONENTS, CONTROL OF DC AND AC DRIVES, BATTERY ENERGY STORAGE SYSTEM, ALTERNATIVE ENERGY STORAGE SYSTEMS	2021-2022
13.	Research Methodology and IPR	2101RMX01	EMPLOYABILITY: RESEARCH PROBLEM FORMULATION, LITERATURE REVIEW, TECHNICAL WRITING /PRESENTATION, INTRODUCTION TO	2021-2022

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			INTELLECTUAL PROPERTY RIGHTS (IPR), INTELLECTUAL PROPERTY RIGHTS (IPR)	
14.	Audit Course – II DISASTER MANAGEMENT	2101AU002	EMPLOYABILITY: INTRODUCTION, REPERCUSSIONS OF DISASTERS AND HAZARDS, DISASTER PRONE AREAS IN INDIA, DISASTER PREPAREDNESS AND MANAGEMENT, RISK ASSESSMENT	2021-2022
15.	Digital Control of Power Electronic Circuits Laboratory	2102PE203	EMPLOYABILITY: SINGLE PHASE AC-DC CONVERTER, THREE PHASE AC-DC CONVERTER, DC-DC CONVERTERS, AC VOLTAGE CONTROLLERS, CYCLOCONVERTERS	2021-2022
16.	Electrical Drives Laboratory	2102PE204	EMPLOYABILITY: INTRODUCTION TO INDUCTION MOTORS, VSI AND CSI FED INDUCTION MOTOR CONTROL, ROTOR CONTROLLED INDUCTION MOTOR DRIVES, FIELD ORIENTED CONTROL, SYNCHRONOUS MOTOR DRIVES	2021-2022
17.	Mini Project with Seminar	2104PE205	EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT	2021-2022
18.	Elective III- Optimization Techniques	1703PE018	EMPLOYABILITY: INTRODUCTION TO OPTIMIZATION, LINEAR PROGRAMMING, NONLINEAR PROGRAMMING (ONE DIMENSIONAL, NONLINEAR PROGRAMMING , DYNAMIC PROGRAMMING AND HEURISTIC TECHNIQUES FOR OPTIMIZATION	2018-2019
19.	Elective IV - Recent trends in power conversion Technology	1703PE001	EMPLOYABILITY: SWITCHING TECHNIQUES, DC – DC CONVERTERS, ADVANCES IN INVERTERS, MATRIX CONVERTER, HARMONIC MITIGATIONS	2018-2019
20.	Elective V- Environmental Engineering and Pollution Control	1703EV020	EMPLOYABILITY	2018-2019
21.	Project Work Phase-I	1704PE301	EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT	2018-2019
22.	Project Work Phase-II	1704PE401	EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT	2018-2019

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