Id	Program	CourseCode	CourseName	COCode	со
	Electrical				Analyze the presentation of discrete fourier
1915	Engineering	5EE04	Signal and System	CO6	transform and fast Fourier transform.
	Flootrical				Understand the ordinary differential equation
1015	Electrical	25504	NA-th-co-ti III	604	Understand the ordinary differential equation
1915	Engineering	3EE01	Mathematics-III	CO1	method of variation of parameters.
	Electrical				Understand classification of buses, network
1915	Engineering	6EE01	Electrical Power-I	CO4	modelling.
4045	Electrical		s: 1 1s :	604	Describe the sampling and it's effect on a
1915	Engineering	5EE04	Signal and System	CO4	continuous time signal
4045	Electrical	CEE04	51 15	602	Understand various methods of voltage control
1915	Engineering	6EE01	Electrical Power-I	CO3	and power factor improvement.
1015	Electrical	FFF04	Cinnal and Contain	602	Understand Analysis of LTI Discrete-Time
1915	Engineering	5EE04	Signal and System	CO3	Systems
4045	Electrical	FFF04	Cinnal and Contain	602	Understand Fourier series and Fourier
1915	Engineering	5EE04	Signal and System	CO2	transform.
	Electrical				Impart the knowledge on constructional
1015	Electrical		Flooring Modeling II	604	details, principle of operation, performance of
1915	Engineering	5EE03	Electrical Machine-II	CO4	3 phase induction motor.
	Clostwice!				Impart the knowledge on constructional
1015	Electrical	FFF02	Flactuical Manhima II	coc	details, principle of operation, type of 1 phase
1915	Engineering	5EE03	Electrical Machine-II	CO6	induction motor and special machine
	Clostwice!				Understand the various signal, systems and
1015	Electrical		Signal and Sustans	601	analyze the continuous time systems in time
1915	Engineering	5EE04	Signal and System	CO1	and frequency domain.
1015	Electrical	FFF02	Flactuical Manhima II	605	Compare the different methods of starting and
1915	Engineering	5EE03	Electrical Machine-II	CO5	braking of three phase Induction motor
	Electrical				
1015	Electrical		Flooring Modeling II	602	Impart the knowledge on constructional
1915	Engineering Electrical	5EE03	Electrical Machine-II Microprocessor and	CO2	details, principle of operation of an alternator.
1015		LEE03	Microcontroller	COF	Describe the applications of microprocessor
1915	Engineering	5EE02	Microcontroller	CO5	Describe the applications of microprocessor.
	Electrical				To Analyze construction, principles of
1015	Engineering	4EE01	Electrical Machine-I	CO 5	operation, testing and application of three phase transformer
1915	Engineering	46601	Electrical Macrime-i	CO 3	Acquire knowledge about working, testing,
	Electrical				applications and torque equation of
1015	Engineering	5EE03	Electrical Machine-II	CO3	synchronous machines
1913	Liigiiieeiiiig	JULIOS I	Liectrical Macrime-II	CO3	synchronous machines
	Electrical				To Analyze the various conversion, connections
1015	Engineering	4EE01	Electrical Machine-I	CO 6	and its application of transformer.
1313	Electrical	46601	Microprocessor and	000	Summarize the interfacing of the peripherals
1015	Engineering	5EE02	Microcontroller	CO3	devices with microprocessor.
1313	Liigiiieeiiiig	JELUZ	iviici ocontrollei	CO3	Explain the various interfacing devices of
	Electrical		Microprocessor and		multitasking of the processor.and introduction
1015	Engineering	5EE02	Microcontroller	CO4	to architecture of 8086
1010	Electrical	32202	Microprocessor and		Illustrate the architecture of microcontroller
1015	Engineering	5EE02	Microcontroller	CO6	8051
1913	- ngmeering	JLLUZ	IVIICI OCOTTU OIICI		To Analyze data for qualitative and quantitative
	Electrical				parameters to determine characteristics of dc
1015	Engineering	4EE01	Electrical Machine-l	CO 3	machines.
1913	- ngmeering	7-1-01	Licetrical iviacinine-i	50 3	macinics.
					Understand characteristics of transmission Line
	Electrical				such as short medium and long transmission
1915	Engineering	6EE01	Electrical Power-I	CO2	line and effect on transmission line.
1010	-ngmeeting	I OFFOT	Licetifical i OWEI-I	CO2	mic and check on transmission line.

	Electrical	1			To Understand Auto-transformer concept &
1915	Engineering	4EE01	Electrical Machine-I	CO 4	testing of transformers.
	Electrical	1			Impart the knowledge on fundamental of AC
1915	Engineering	5EE03	Electrical Machine-II	CO1	rotating machine.
1313	z.ig.i.cci.iig	32203	Electrical Machine II		Totaling machine.
	Electrical		Microprocessor and		Explain Architecture of 8085 and their
1915	Engineering	5EE02	Microcontroller	CO1	Adderasing modes and instruction set of 8085.
1913	Linginieerinig	JLLUZ	Wilci Oconti onei	COI	Adderasing modes and instruction set of 8085.
	Electrical		Microprocessor and		Execute an arithmetic and logical programs.and
1015	Engineering	5EE02	Microcontroller	CO2	assembly language programming of 8085
1313	Liigiiicciiiig	JELOZ	Wheredeatherener		assembly language programming or 5005
	Electrical				Understand transmission line parameters and
1915	Engineering	6EE01	Electrical Power-I	CO1	their calculations also know various effects.
1313	Electrical	01101	Electrical Fower F		Analyze about frequency response methods of
1915	Engineering	5EE01	Control System -I	CO5	control system like Bode plot, Polar plot.
1313	Liigiiicciiiig	32201	control system 1		Analyze stability analysis from frequency
	Electrical				response with the help of Bode plot and
1015	Engineering	5EE01	Control System -I	CO6	Nyquist plots.
1913	Electrical	JLLUI	Control System -1	100	Analyze of stability & it's criteria's also to plot
1015	Engineering	5EE01	Control System -I	CO4	root locus of given control system.
1913	Linginieerinig	JLLUI	Control System -1	CO4	Understand control system of first order and
	Electrical				second order and time response analysis of
1015	Engineering	5EE01	Control System -I	CO3	such system.
1913	Liigiileeriiig	SEEUI	Control system -i	CO3	such system.
					To understand the various armatures winding
	Electrical				used in D.C. machines and also understand the
1015	Engineering	4EE01	Electrical Machine-I	CO 2	various methods of commutation.
1913	Electrical	46601	Liectifical Maciline-i	CO 2	To Understand constructional details of dc
1015	Engineering	4EE01	Electrical Machine-I	CO 1	electrical machines.
1913	Linginieerinig	46601	Liectifical Maciline-i	CO 1	Analyze about control system components like
	Electrical				motors synchro devices etc. their application
1015	Engineering	5EE01	Control System -I	CO2	and analysis.
1313	Liigiiieeiiiig	JELOI	Control System -1	1002	and analysis.
	Electrical				Understand the basics of control system and
1915	Engineering	5EE01	Control System -I	CO1	present physical system in mathematical form.
1313	Liigiiicciiiig	32201	control system 1		To Uderstand the characteristics of IC
					component IC, parameters of IC and
	Electrical				understand functionality of IC 741as an op-amp
1915	Engineering	4EE03	Analogue Digital Circuits	CO 1	and its parameter.
1313	Electrical	72203	/ malogue Digital elleures		Read and write technical efforts, proposals,
1915	Engineering	5EE06	Communication Skills	CO6	research papers scientifically.
1313	Electrical	32200	Communication skins		Discuss ways of effectively speaking, public
1015	Engineering	5EE06	Communication Skills	CO3	speaking.
1913	Linginieerinig	JLLUU	Communication Skins	CO3	Analyze state space variables, canonical forms
	Electrical				and calculation of State Transition Matrices
1015	Engineering	7EE01	Control System-II	CO2	(STM).
1913	Electrical	, , , , ,	CONTROL SYSTEMPII	1002	(Stivi).
1015		5EE06	Communication Skills	CO4	Present and speak effectively in public.
1312	Engineering	JEEUO	COMMUNICATION SKINS	CO4	Fresent and speak effectively in public.
1015	Electrical	EEEO&	Communication Skills	COF	Eaco job interviews and group discussions
1912	Engineering	5EE06	Communication Skills	CO5	Face job interviews and group discussions,
1015	Electrical	45503	Electromagnetic Theory	CO 4	To Analyze and recognize the basic laws of
1912	Engineering	4EE02	Electromagnetic Theory	CO 4	magnetic fields.
1015	Electrical	75504	Control Customs !!	CO4	Understand the classical design of various
1915	Engineering	7EE01	Control System-II	CO1	compensation networks.

	Electrical	1			To Analyze and evaluate magnetic fields in
1015	Engineering	4EE02	Electromagnetic Theory	CO 5	materials.
1913	Electrical	46602	Liectromagnetic meory	1003	Understand basic concepts of communication
1015		5EE06	Communication Skills	CO1	•
1915	Engineering	SEEUB	Communication Skills	CO1	and its barriers.
4045	Electrical	65504	E	606	Understand construction of cables, their types,
1915	Engineering	6EE01	Electrical Power-I	CO6	rating, testing and grading.
	Electrical				
1915	Engineering	5EE06	Communication Skills	CO2	Become an active listener.
	Electrical				To Understand Maxwell equations and wave
1915	Engineering	4EE02	Electromagnetic Theory	CO 6	equations.
					Understand about electronic ignition systems,
	Electrical		Elective - Consumer		electronic ignition locks system, Antilock
1915	Engineering	5EE05	Electronics	CO6	Braking System (ABS).
					Understand the power supply and other
	Electrical		Elective - Consumer		systems SMPS, UPS and Preventive
1915	Engineering	5EE05	Electronics	CO5	Maintenance, Set Top Boxes.
	Electrical		Elective - Consumer		Understand the recording and reproduction
1915	Engineering	5EE05	Electronics	CO4	systems.
	Electrical				To Understand Electrostatics and its fields in
1915	Engineering	4EE02	Electromagnetic Theory	CO 2	dielectrics.
	Electrical				
1915	Engineering	5EE04	Signal and System	CO5	Analyze CT and DT systems using Z -Transforms.
	Electrical	†	,		, ,
1915	Engineering	4EE02	Electromagnetic Theory	CO 1	To Understand Review of Vector Analysis
	0 0	 	1,000		Impart the knowledge about domestic
					appliances like Washing machines, Microwave
	Electrical		Elective - Consumer		ovens, Air- conditioners and Refrigerators and
1015	Engineering	5EE05	Electronics	CO3	Computers Office Systems
1313	Liigineering	JELOS	Liectionics	1003	Understand various components of power
	Electrical				system such as Insulators, line supports and
1015	Engineering	6EE01	Electrical Power-I	CO5	their testing.
1913	Liigiiieeiiiig	OLLOI	Liectrical Fower-i	1003	Describe the various video systems and displays
	Electrical		Elective - Consumer		such as Colour TV standards, Video Telephone
1015				CO2	•
1915	Engineering	5EE05	Electronics	CO2	and Video Conferencing
	e		51 1: 6		Understand the various audio systems like
4045	Electrical		Elective - Consumer	604	Microphones, Loudspeakers, and sound
1915	Engineering	5EE05	Electronics	CO1	systems
					Represent Z transform and analysis &
					Calculation in numerical forms of Z transform Z
	Electrical				transform and analysis & Calculation in
1915	Engineering	7EE01	Control System-II	CO4	numerical forms of Z transform
					Analyse non-linearity's that occurs in the real
	Electrical				world problems and to evaluate non-linear
1915	Engineering	6EE02	Optimisation Techniques	CO4	programming mathematical model.
					To Understand analytic function, harmonic
	Electrical				function, mapping by elementary functions and
1915	Engineering	4EE04	Mathematics-IV	CO 1	bilinear transformation.
					Understand the various combinations of RC
					circuits, understand the steady state and
	Electrical				sinusoidal steady state-frequency response of
1915	Engineering	3EE02	Network Analysis	CO3	circuits.
	Electrical				Understand significance of PERT and CPM
1915	Engineering	6EE02	Optimisation Techniques	CO5	techniques and to estimates network diagrams.
			•	-	•

					To Analyze the concept of singular points,
	Electrical				Taylor series, Laurent's series, Cauchy integral
1915	Engineering	4EE04	Mathematics-IV	CO 2	and Cauchy Residue theorem problems.
	Electrical				To Understand and evaluate electrostatics
1915	Engineering	4EE02	Electromagnetic Theory	CO 3	fields in dielectrics.
	Electrical				Understand the various network theorems and
1915	Engineering	3EE02	Network Analysis	CO2	understand of source transformations.
	Electrical		·		Understand complex linear programming
1915	Engineering	6EE02	Optimisation Techniques	CO3	mathematical model and to evaluate.
	Electrical				To Understand various Sequential digital
1915	Engineering	4EE03	Analogue Digital Circuits	CO 6	circuits in Electronics.
	Electrical				Understand Introduction and application of
1915	Engineering	6EE02	Optimisation Techniques	CO1	optimization techniques.
					Understand the V-I characteristics of
	Electrical				inductance and capacitance, also understand
1915	Engineering	3EE02	Network Analysis	CO1	basic nodal and mesh analysis
					To Analyse IC741op-amp for various electronics
	Electrical				circuits. And linear and non linear application
1915	Engineering	4EE03	Analogue Digital Circuits	CO 2	of Op-Amp
	Electrical				To Analyze IC 723 and its applications and
1915	Engineering	4EE03	Analogue Digital Circuits	CO 3	understand IC 555 and its applications.
					Understand linear relationship among the real
					world optimization problem and to calculate
	Electrical				optimal solution by conventional linear
1915	Engineering	6EE02	Optimisation Techniques	CO2	methods of optimization.
	Electrical				Understand system controllability and observe
1915	Engineering	7EE01	Control System-II	соз	ability by various tests.
					To Analyse CMOS, NMOS, PMOS transistor
					design and their used for designing various
	Electrical				logic gates and understand concEEt of logic
1915	Engineering	4EE03	Analogue Digital Circuits	CO 4	families.
	Electrical				To Understand various Combinational digital
1915	Engineering	4EE03	Analogue Digital Circuits	CO 5	circuits in Electronics.
					Understand renewable and non renewable
	Electrical		Elective - Non Conventional		energy source describe concept about solar
1915	Engineering	6EE05	Energy System	CO1	radiation system.
					To analyse the numerical integration by using
					appropriate Numerical integration method
					derived on the basis of a parabola or
					polynomial over small sized intervals and
	Electrical		Numerical Methods and		implementation of these integration methods
1915	Engineering	4EE05	Computer Programming	CO 4	in c-programming.
					Understand the knowledge about Reflection
					and absorption of radiation and Solar Energy
	Electrical		Elective - Non Conventional		collections, Introduction to various systems of
1915	Engineering	6EE05	Energy System	CO2	concentrating collectors.
	Electrical				
1915	Engineering	6EE03	Power Electronics	CO3	Understand the design and control of rectifiers.
					Understand general features, types,
	Electrical				characteristics of locomotive motor for
1915	Engineering	6EE06	Electrical Energy Utilisation	CO5	overhead equipment's.
					Understand lighting calculations for factory,
	Electrical				flood and street. Also Various methods of
	Engineering	6EE06	Electrical Energy Utilisation	CO6	heating and welding furnaces.

	Electrical		Power System Operation &		Understand two Area system and Steady-State
1915	Engineering	7EE02	Control	CO6	Instabilities,pss.
1913	Liigineeriiig	71102	Control	000	instabilities,pss.
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 3	To Understand the interpolation by using proper Interpolation techniques based on finite difference to obtain the intermediate value in the given data and implementation of these Interpolation techniques in c-programming.
	Electrical				Understand traction system, its energy
1915	Engineering	6EE06	Electrical Energy Utilisation	CO4	consumption and calculations.
1915	Electrical Engineering	7EE02	Power System Operation & Control	CO5	Understand Control Area, Pool operation; Tie- line Modeling, Tie-line bias control, and Static and Dynamic response of ALFC loop. To Understand the system of linear equations
1915	Electrical Engineering	4EE05	Numerical Methods and Computer Programming	CO 2	using suitable Numerical method to obtain the solution of system of linear equations and implementation of these methods in c-programming.
	Electrical				Understand the basics of power electronic
1915	Engineering	6EE03	Power Electronics	CO1	devices.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 5	To Analyze various types of probability, probability distribution and problems depends on it.
	Electrical		Power System Operation &		Analyze the Transmission loss, significance of
1915	Engineering	7EE02	Control	CO2	penalty factor & ALD.
1915	Electrical Engineering	4EE04	Mathematics-IV	CO 6	To Understand curve fitting by method of least squares, solution of differential equation by matrix method and Peano Baker method. Undestant the knowledge of automatic
1015	Electrical Engineering	7EE02	Power System Operation & Control	CO3	generation control and automatic voltage regulation.
	Electrical Engineering	6EE06	Electrical Energy Utilisation	CO1	Understand introduction of subject and concept of electrical drive.
	Electrical Engineering	6EE03	Power Electronics	CO2	Analyze the characteristics of SCR, BJT, MOSFET and IGBT.
	Electrical				Understand different duties and test on
1915	Engineering	6EE06	Electrical Energy Utilisation	CO2	induction motor.
4045	Electrical	75500	Power System Operation &	604	Understand Automatic Load Frequency Control
1915	Engineering Electrical	7EE02	Control Numerical Methods and	CO4	& Transfer function modeling. To analyse the polynomial and transcendental equations using appropriate Numerical method to obtain the root of the equations and implementation of these methods by using c -
1915	Engineering	4EE05	Computer Programming	CO 1	programming
1313	Electrical	42203		001	Understand different characteristics of electrical motor like dc motor, single and three
1915	Engineering	6EE06	Electrical Energy Utilisation	CO3	phase induction motor etc Understand Economic operation of power
	Electrical		Power System Operation &		system and importance of LFC, UCP control &
	Engineering	7EE02	Control	CO1	performance curve.
1915					
1915	Electrical				To Analyze solution of Legendre's equations, Bessel's equations by Frobensious method, Legendre's polynomials and orthogonal

				1	1
					Identify & aanalysis the nonlinear system and
					various characteristics of nonlinear system. &
	Electrical				aanalysis the nonlinear system and various
1915	Engineering	7EE01	Control System-II	CO5	characteristics of nonlinear system.
	<u> </u>				·
	Electrical				Understand the Laplace transform, functions
1915	Engineering	3EE02	Network Analysis	CO4	shifting theorem and final value theorems.
	Electrical				Analyze singular points, typical nonlinearities
1915	Engineering	7EE01	Control System-II	CO6	and their Various nature.
					To Analyze partial differential equation of first
	Electrical				order and first degree also Lagrange's form an
1915	Engineering	4EE04	Mathematics-IV	CO 3	Clarinet's form.
					Understand the sinusoidal steady state and
	Electrical				Fourier series representation of non-sinusoida
1915	Engineering	3EE02	Network Analysis	CO5	periodic waveforms.
					Understand real world multistage decision
	Electrical				problems and to define solution through
1915	Engineering	6EE02	Optimisation Techniques	CO6	dynamic programming methods.
	Electrical				Learn the characteristics of sinusoidal steady
1915	Engineering	3EE02	Network Analysis	CO6	state and fourier series
	Electrical				Write down the characteristics of sinusoidal
1915	Engineering	3EE02	Network Analysis	CO7	steady state and fourier series
					Understand the steady state stability of two
	Electrical				machine system, multi machine system, and
1915	Engineering	8EE01	Power System Stability	CO2	transmission lines with various parameters.
					Understand the basic components of a
	Electrical				protection system and the main function of
1915	Engineering	7EE04	Switchgear and Protection	CO1	each.
					Understand various Resources like Ocean,
	Electrical		Electrical Resources and		Tidal, Biomass, Biogas, MHD etc. used for
1915	Engineering	3EE03	Generation	CO6	Power Generation
	e				
1015	Electrical	05501	Danner Cretera Stability	601	Understand the basic Concept of stability,
1915	Engineering	8EE01	Power System Stability	CO1	types of stability and various time constants.
1015	Electrical	25502	Electrical Resources and	COL	Understand chemistry applied to fuel cells and
1915	Engineering	3EE03	Generation	CO5	wind energy
1015	Electrical	05503	High Voltage Engineering	COG	Understand various types of the excitation
1915	Engineering	8EE02	High Voltage Engineering	CO6	system
	Electrical				Understand different methods of high voltage,
1015	Engineering	8EE02	High Voltage Engineering	CO5	current and capacitance measurement
1313	Electrical	OLLUZ	Thigh voltage Engineering	1005	Understand breakdown mechanisms in solid,
1015	Engineering	8EE02	High Voltage Engineering	CO2	liquids & composite dielectrics.
1913	Liigiiieeiiiig	OLLUZ	Thigh voitage Engineering	CO2	Understand lightning and switching
	Electrical				overvoltage phenomenon and protection
1915	Engineering	8EE02	High Voltage Engineering	CO3	against them.
1713	Electrical	OLLUZ	Electrical Resources and	1003	Understand basic Solar Energy and Its
1015	Engineering	3EE03	Generation	CO4	measurement
1913	Electrical	JSLLU3	Generation	1004	Understand high voltage and current
1015	Engineering	8EE02	High Voltage Engineering	CO4	generation techniques.
1913	Electrical	OLEUZ	חוקוו ייטונמצב בווצווופפווווצ	104	Understand breakdown mechanisms in gases 8
1015	Engineering	8EE02	High Voltage Engineering	CO1	theory related to it.
1213	rugineering	OLEUZ	Tilgii voitage Eligilieeiliig	1001	theory related to it.

	Electrical				Understand and analyze different types of
1915	Engineering	8EE03	Digital Signal Processing	CO5	analog and digital filters.
	Electrical		Electrical Resources and	1	Understand and describe the knowledge of
1915	Engineering	3EE03	Generation	CO2	thermal and hydro power plant.
	3 3				Understand different types of elements
	Electrical				involved in Flexible AC Transmission Systems
1915	Engineering	7EE03	Electrical Power -II	CO6	(FACTS)
	Electrical				Understand different types of DSP processor
	Engineering	8EE03	Digital Signal Processing	CO6	and its applications
	Electrical		Electrical Resources and		Understand Nuclear power plant and Diesel
	Engineering	3EE03	Generation	соз	Electric power plant
	5 5			1	
	Electrical				Understand FIR and IIR filters by hand to meet
1915	Engineering	8EE03	Digital Signal Processing	CO4	specific magnitude and phase requirements.
	Electrical				Understand different Continuous and discrete
1915	Engineering	8EE03	Digital Signal Processing	CO1	time signals and systems.
	Electrical		Electrical Resources and		Understand the factors to be considered in site
1915	Engineering	3EE03	Generation	CO1	selection for different power plants.
	Electrical				Understand sampling of band pass filter of
1915	Engineering	8EE03	Digital Signal Processing	соз	A/D,D/A converter analysis.
	3 3		3 3 3		Understand Discrete Fourier Transform, Fast
	Electrical				Fourier Transform (FFT) algorithms for faster
	Engineering	8EE03	Digital Signal Processing	CO2	realization of signals and systems.
	Electrical	+			Undestand different elements and its working
	Engineering	7EE03	Electrical Power -II	CO5	in HVDC Transmission system.
	88	7.220		1	Analyze the different power quality solutions
	Electrical				along with the illustration of different
	Engineering	8EE04	Elective - Power Quality	CO4	equipment.
	gg	102201		1	- Cyarpment
	Electrical				Understand effects and protection techniques
	Engineering	7EE03	Electrical Power -II	CO4	for overvoltage's in power system.
1313	21181116611118	72203	Ziedridai i dwei ii	100.	Understand the power quality measurement
	Electrical				tools and interpret all the things related to
	Engineering	8EE04	Elective - Power Quality	CO6	power quality surveys.
1313	Lingilicering	02204	Elective Fower quality		Understand wiring and grounding principles
	Electrical				orider starta withing and grounding principles
	Liccuitcai				along with installation and the problems
1915	Engineering	8FF04	Flective - Power Quality	CO5	along with installation and the problems
1915	Engineering	8EE04	Elective - Power Quality	CO5	along with installation and the problems related to it.
		8EE04	,	CO5	related to it.
	Electrical		Elective - Non Conventional		related to it. Understand the solar energy utilization and
		8EE04 6EE05	,	CO5	related to it. Understand the solar energy utilization and radiation transmission through covers.
1915	Electrical Engineering		Elective - Non Conventional Energy System		related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary
1915	Electrical Engineering Electrical	6EE05	Elective - Non Conventional Energy System Numerical Methods and	CO3	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical
1915	Electrical Engineering		Elective - Non Conventional Energy System		related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming.
1915 1915	Electrical Engineering Electrical Engineering	6EE05	Elective - Non Conventional Energy System Numerical Methods and	CO3	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line
1915 1915	Electrical Engineering Electrical Engineering Electrical	6EE05 4EE05	Elective - Non Conventional Energy System Numerical Methods and Computer Programming	CO3	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault
1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering	6EE05	Elective - Non Conventional Energy System Numerical Methods and	CO3	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line
1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering Electrical	6EE05 4EE05 7EE03	Elective - Non Conventional Energy System Numerical Methods and Computer Programming Electrical Power -II	CO3 CO 5 CO2	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations.
1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering	6EE05 4EE05	Elective - Non Conventional Energy System Numerical Methods and Computer Programming	CO3	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault
1915 1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering Electrical Engineering	6EE05 4EE05 7EE03	Elective - Non Conventional Energy System Numerical Methods and Computer Programming Electrical Power -II	CO3 CO 5 CO2	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations. Understand different types of chopper circuits.
1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering Electrical Engineering	6EE05 4EE05 7EE03 6EE03	Elective - Non Conventional Energy System Numerical Methods and Computer Programming Electrical Power -II Power Electronics	CO3 CO 5 CO2 CO5	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations. Understand different types of chopper circuits. Understand the Power quality problems need
1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering Electrical Engineering	6EE05 4EE05 7EE03	Elective - Non Conventional Energy System Numerical Methods and Computer Programming Electrical Power -II	CO3 CO 5 CO2	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations. Understand different types of chopper circuits.
1915 1915 1915 1915	Electrical Engineering Electrical Engineering Electrical Engineering Electrical Engineering	6EE05 4EE05 7EE03 6EE03	Elective - Non Conventional Energy System Numerical Methods and Computer Programming Electrical Power -II Power Electronics	CO3 CO 5 CO2 CO5	related to it. Understand the solar energy utilization and radiation transmission through covers. To analyse and implement the ordinary differential equations using suitable numerical method in c programming. Analyze symmetrical faults on transmission line and to perform the short circuit fault calculations. Understand different types of chopper circuits. Understand the Power quality problems need

	Electrical	T			Understand speed control techniques of
	Engineering	6EE03	Power Electronics	CO6	various motor.
-515	88	102200			
	Electrical				Understand different power quality standards
	Engineering	8EE04	Elective - Power Quality	соз	& predict the purpose & process of designing it
1313	21181116611118	02201	Licente Forter Quality		Understand and analyze different types of
	Electrical				unsymmetrical faults using symmetrical
1915	Engineering	7EE03	Electrical Power -II	соз	components.
1313	Liigiiiceiiiig	72203	Electrical Fower II	1005	components.
	Electrical		Elective - Non Conventional		
	Engineering	6EE05	Energy System	CO4	Understand the energy from ocean and wind.
	Electrical	0000	Lifeigy System	CO4	Onderstand the energy from ocean and wind.
	Engineering	6EE03	Power Electronics	CO4	Understand the design and control of inverters.
1913	Liigiiieeiiiig	OLLU3	Fower Electronics	CO4	Onderstand the design and control of inverters.
	Electrical				Understand the basis ideas about symmetrical
		7EE03	Electrical Power -II	CO1	Understand the basic ideas about symmetrical
1913	Engineering	76603	Electrical Power -II	CO1	and unsymmetrical fault analysis.
	Clashuisal		Floative New Commentional		
1015	Electrical	CEEOE	Elective - Non Conventional	605	Understand the various biomass energy
1915	Engineering	6EE05	Energy System	CO5	resources.
	el l		51 N 6 1		
	Electrical	65505	Elective - Non Conventional	606	Understand the photo voltaic cells and
1915	Engineering	6EE05	Energy System	CO6	geothermal energy resources.
					To Understand the basic concept and
					techniques of the Object Oriented
	Electrical		Numerical Methods and		Programming and develop programming skills
1915	Engineering	4EE05	Computer Programming	CO 6	using Object Oriented Programming concept.
	Electrical				Understand the properties of Partial
1915	Engineering	3EE01	Mathematics-III	CO2	differential equations
					Understand the principle of Laplace
	Electrical				transformation, Fourier transformation & Z-
1915	Engineering	3EE01	Mathematics-III	CO3	transformation in day to day life.
	Electrical				
1915	Engineering	3EE01	Mathematics-III	CO4	Understand the vector calculus, curves in space
	Electrical				Understand line, Surface & volume integrals,
1915	Engineering	3EE01	Mathematics-III	CO5	Stokes & Divergence theorem.
					Understand the working and applications the
	Electrical		Electrical Measurement and		transducers especially related to pressure and
1915	Engineering	3EE05	Instrumentation	CO6	temperature
					Understand the different types of current,
	Electrical		Electrical Measurement and		voltage, power and energy measuring
1915	Engineering	3EE05	Instrumentation	CO2	instruments and theorems related to it.
					Understand the special measuring instruments
	Electrical	1	Electrical Measurement and		and instruments transformers along with the
1915	Engineering	3EE05	Instrumentation	соз	applicability of all.
	Electrical		Electrical Measurement and		Understand and learn the techniques to
	Engineering	3EE05	Instrumentation	CO4	measure the different circuit parameters.
	<u> </u>	1			Understand the fundamental concepts and
					working principles of the different types of
	Electrical	1	Electrical Measurement and		measuring instrument like Moving Iron ,
1015	Engineering	3EE05	Instrumentation	CO1	PMMC, Electrodynamics, Electrostatic.
1212	בווקווופכווווץ	JLLUJ	matrumentation	CO1	-
	Electrical		Electronics Devices and		Understand the types, characteristics, working
1,,,,	Electrical	25504	Electronics Devices and	COC	and parameters of FETs and to use them for
i 1915	Engineering	3EE04	Circuits	CO6	various applications

					Understand power system, and power system
	Electrical		Elective - Computer Methods		components into mathematical model & in
1915	Engineering	7EE05	In Power System Analysis	CO4	numerical methods.
	Electrical	<u> </u>	Electronics Devices and		Understand the different types of transistor
1915	Engineering	3EE04	Circuits	CO3	amplifier circuits.
1313	Electrical	32201	Computer Aided Machine	-	Understand the stator circuit of Induction
1015	Engineering	6EE04	Design	CO4	motor.
1913	Electrical	OLLO4	Design	CO4	
1015		75504	Constant and Durate ation	coc	Understand the generator and motor
1915	Engineering	7EE04	Switchgear and Protection	CO6	protection schemes
4045	Electrical	05504			Understand impact of different actions on
1915	Engineering	8EE01	Power System Stability	CO5	transient stability.
					Understand & evaluate mathematical model
					for multimachine system stability and solve for
	Electrical		Elective - Computer Methods		state equation by modified Euler and Runge
1915	Engineering	7EE05	In Power System Analysis	CO6	Kutta fourth order.
	Electrical				Understand various types of the excitation
1915	Engineering	8EE01	Power System Stability	CO6	system
	Electrical		Computer Aided Machine		
1915	Engineering	6EE04	Design	CO5	Understand the rotor circuit of Induction motor
	Electrical		Electronics Devices and		Understand the different types of amplifier
1915	Engineering	3EE04	Circuits	CO4	circuits and calculation of different parameters
1313	Linginicerinis	32204	Circuits	-	circuits and calculation of amerene parameters
	Electrical		Computer Aided Machine		Understand the parameter of Industion motor
1015	Electrical	CEE04	Computer Aided Machine	coc	Understand the parameter of Induction motor
	Engineering	6EE04	Design	CO6	and to determine its effects on performance.
	Electrical		Electronics Devices and		Understand the theory, construction and
1915	Engineering	3EE04	Circuits	CO5	applications of different types of Diodes.
	Electrical				Understand the transformer and busbar
	Engineering	7EE04	Switchgear and Protection	CO5	protection schemes.
	Electrical				Understand impact of various effects on steady
1915	Engineering	8EE01	Power System Stability	CO3	state stability.
	Electrical		Elective - Computer Methods		Understand load flow problem using different
1915	Engineering	7EE05	In Power System Analysis	CO5	techniques.
					Understand& analyze transient state stability
	Electrical				using equal area criterion, swing equation and
1915	Engineering	8EE01	Power System Stability	CO4	point by point Solution.
			,		
	Electrical				Understand the over current and the distance
1915	Engineering	7EE04	Switchgear and Protection	CO4	protection schemes for transmission lines.
	88	7 - 2 - 3	omicongear and recession		Understand the basic characteristics of BJT,
	Electrical		Electronics Devices and		methods of biasing, stability factor and
1015	Engineering	3EE04	Circuits	CO2	compensation techniques.
1913	Liigiileeiiilg	36604	Circuits	COZ	compensation techniques.
	Flaaks:!		Company At Jud A		I lind analog of the after owner between the Co
4045	Electrical		Computer Aided Machine		Understand the thermal circuit of transformer
1915	Engineering	6EE04	Design	CO3	and to analyze its performance.
	Electrical		Elective - Computer Methods		Understand bus impedances and admittances
	Engineering	7EE05	In Power System Analysis	CO3	matrices by algorithm.
1915	Linginieering	7 2 2 3			
1915	Liigiiieeiiiig	72203			
1915	Electrical	72203	Computer Aided Machine		Understand the magnetic circuit of transformer

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1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO2	Understand & moderate the oriented graph from single line diagram and different matrices also they will be able to form Singular and Non singular transformation of network matrices.
	Electrical		Computer Aided Machine		Understand the basics of power electronic
1915	Engineering	6EE04	Design	CO1	devices
					Understand the main types of the
	Electrical				Electromagnetic and static relays, with the
1915	Engineering	7EE04	Switchgear and Protection	CO3	merits and demerits of each type.
	Electrical		Electronics Devices and		Understand the working of PN junction diode
1915	Engineering	3EE04	Circuits	CO1	and different types of Rectifiers.
1915	Electrical Engineering	7EE05	Elective - Computer Methods In Power System Analysis	CO1	Understand & descript short circuit understand by three phase symmetrical components and calculate balanced three phase networks using bus impedance matrix.
1015	Electrical Engineering	7EE04	Switchgear and Protection	CO2	Understand the main types of CB's and the preferred application for each type and analyze the difficulties in circuit breakers while interrupting fault current.
1313	LIIGIIICCIIIIG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Switchige and Frotection	CO2	micerrupting fault current.
1915	Electrical Engineering	3EE05	Electrical Measurement and Instrumentation	CO5	Understand the basics of the transducers and its applicability and ultimately have the knowledge of generalized measurement system