

ASHOKRAO MANE GROUP OF INSTITUTIONS

NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 E-mail: <u>hodele@amgoi.edu.in</u>, Website: www.amgoi.org

NBA accredited Programs* | Accredited by NAAC with 'A' Grade (CGPA 3.08)

DEPARTMENT OF ELECTRICAL ENGINEERING

Course Outcome

A.Y.2018-19

SY B.Tech. (Odd Semester)

Sr.No.	Name of Subject	Course Outcome
1	Network Analysis	To review basic components of electric network.
	& Synthesis	To design and develop network equations and their solutions.
		To apply Laplace theorem for electric network analyses.
		To analyze AC circuit.
2	Fluid Mechanics	To introduce properties of fluid and hydraulic measurement.
	& Thermal Engg.	To understand dynamics of fluid flow.
		To understand basic concepts of IC engines.
		To understand concept of refrigeration and air conditioning.
3	Measurement &	To understand philosophy of measurement.
	Instrumentation	To understand different methods analog and digital measurement.
		To study principle of construction and operation of different transducer and
		dismay methods.
4	Basic Human	To study concept of time value of money.
	Rights	To study about demand in detail.
		To understand Meaning of Production and factors of production.
		To understand dif. Concept about market.
5	Engg. Economics	To study concept of time value of money.
		To study about demand in detail.
		To understand Meaning of Production and factors of production.
		To understand dif. Concept about market.
6	Electrical Engg.	To study about crystal structure.
	Materials	To understand magnetic material structure.
		To study about conducting and superconducting materials.
		To study dielectric and nano materials.
7	Network Analysis	Verifies principles of network.
	& Synthesis Lab	
8	Electrical	Build and verifies basic scientific principles.
	Workshop /Mini	
	Project	





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DEPARTMENT OF ELECTRICAL ENGINEERING

SY B.Tech. (Even Semester)

Sr.No.	Name of Subject	Course Outcome
1	Electrical	To study diff. types, construction and operating principle of diff. types of
	Machines-I	electrical machines.
2	Power System -I	To Understand basic operation of power system, power system components
		and their characteristics.
3	Electrical	To prepare estimates and costing of electrical installations of power system.
	Installation And	To understand procedures of contracting and purchase.
	Estimation	
4	Numerical	To study and understand MATLAB programming.
	Methods And	To review mathematical concepts.
	Programming	To develop computer program for linear and nonlinear equations.
5	Product Design	Create simple mechanical or other designs.
	Engineering	Create design documents for knowledge sharing.
		Manage own work to meet design requirements.
		Work effectively with colleagues.
6	Analog And	To review basic number system.
	Digital	To understand deign and characteristics of digital logic gates.
	Electronics	To study different techniques in use of digital circuits.
		To design digital systems.
7	Introduction To	To review energy scenario.
	Non-	To understand basic concepts, construction and operational features of
	Conventional	different non-conventional sources.
	Energy Sources	



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DEPARTMENT OF ELECTRICAL ENGINEERING

TY B.Tech. (Odd Semester)

Sr.No.	Name of Subject	Course Outcome
1	Electrical	To study different methods of speed control of AC and DC motor.
	Machines-II	To study importance and procedure of different performance test on AC
		and DC motor.
		To determine different operating characteristics of AC and DC machines.
2	Power System -II	To study different parameters of power system operation and control.
		To study load flow and Diff. methods of reactive power control.
		To understand diff. methods of fault analysis and stability study.
3	Microprocessor	To know the architecture of 8085 and 8051.
	And Micro	To understand interfacing and interrupt features of 8085 and 8051.
	Controller	To develop program for basic applications.
4	Value Education,	To understand value of education and self-development.
	Human Rights	To develop good values and character.
	And Legislative	To know Human right and legislative procedure.
	Procedures	
5	Advances In	To know the principle of energy conversion technique from biomass,
	Renewable	geothermal and hybrid energy systems.
	Energy Systems	To understand effects of air pollution and ecosystems.
6	Power Plant	To review basic components of power system, energy sources.
	Engineering	To understand principle of construction and operation of different
		conventional power plants.



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DEPARTMENT OF ELECTRICAL ENGINEERING

TY B.Tech. (Even Semester)

Sr.No.	Name of Subject	Course Outcome
1	Control System	To understand the behavior of nonlinear control system.
		To design and analyze PID controller.
		To understand and analyze state variable technique.
		To design and analyze suitable control system for engineering application.
2	Principles Of	To understand principles of electric machine design.
	Electrical	To design different components of electric machine.
	Machine Design	To design Transformer.
		To understand CAD and use it for transformer design.
3	Power	To review principle of construction, operation and characteristics of basic
	Electronics	semiconductor devices.
		To understand and analyze performance of controlled and uncontrolled
		converters.
		To understand and analyze performance of DC to DC converters. Dc to AC
		converters.
		To understand and analyze performance of AC voltage controllers.
4	Industrial	To understand construction and working principle of different industrial
	Automation And	measurement systems.
	Control	To understand new trends in industrial process control.
5	Switch Gear And	To understand principles of protective relaying.
	Protection	To understand principle of construction, operation and selection of
		different type of circuit breaker used in power system.
		To understand different protection schemes used in power system
		operation.
6	Project	To understand concepts of project management.
	Management	To develop a project plan.
		To understand the project implementation strategy.
		To analyze post project affects.



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DEPARTMENT OF ELECTRICAL ENGINEERING

Final Year B.Tech. (Odd Semester)

Sr.No.	Name of Subject	Course Outcome
1	Controlled Drives	To understand concept of electric drive and their control.
		To analyze different control techniques on control of industrial drives.
		To select/ recommend suitable drive for particular application for industry.
2	Power System	To obtain mathematical models of power system components.
	Modeling And	To conduct power flow, fault and stability analysis using models.
	Analysis	To analyze the power system dynamic performance.
		To understand the effect of excitation control.
3	Entrepreneurship	To select right entrepreneurship filed.
	Development	To write feasible report.
		To understand organization setups and behaviors.
		To understand different financial sources for entrepreneurship.
4	HVDC	To understand importance, configuration and types of HVDC transmission.
	Transmission And	To analyst the operation of HVDC converter, system control and protection.
	Facts	To understand the concept of FACTS, their role, type and functionality.
		To analyze the operation of static series and shunt compensator.
5	Controlled Drives	Understand characteristics of power electronic switches.
	Lab	To understand application of different switches as circuit component.
		To use the power electronic circuitry for different applications.
6	Power system	Understand various power system components and their performance
	modeling and	
	Analysis Lab	



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DEPARTMENT OF ELECTRICAL ENGINEERING

Final Year B.Tech. (Even Semester)

Sr.No.	Name of Subject	Course Outcome
1	Electrical	To review basics of electric motor characteristics and components.
	Utilization	To review use of electrical energy for different applications like electrolytic
		process, heating, welding, lighting and traction.
		To analyze the suitable study of characteristics of traction motors.
2	High Voltage	To study conduction and breakdown in gases and liquids.
	Engineering	To study the lightening phenomenon.
		To understand the methods and measurement of high voltage generation
		and measurement.
		To know different testing and standards in HV.
3	Advance Control	To analyze continuous and discontinuous systems.
	Systems	To study different stability theorem for nonlinear systems.
		To design and analyze a optimal and adaptive control system.
4	Energy Audit And	To revive energy scenario, energy sources, energy utilization and energy
	Conservation	efficiency.
		To understand different terms and types of energy audit.
		To identify energy conservation measures in different sector
		To prepare energy audit reports.
5	Electrical	To study and understand different control devices and different process
	Utilization Lab	used in industry.
6	High Voltage	Get acquainted with high voltages tests and measurements.
	Engineering Lab	

(Prof.S.H.Shete) HOD