

V. V. P. Engineering College, Rajkot
Electrical Engineering Department
Course Outcomes & PO/PSO Mapping

Semester:	6
Subject Code:	3160001
Subject Name:	Design Engineering 2B

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160001.1	Determine problems related to community or society.	Ap
C3160001.2	Deduce the problem using design engineering methodology.	An
C3160001.3	Evaluate solution using props.	E
C3160001.4	Construct working model of the product.	C
C3160001.5	Validate developed product in real world.	E

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Semester:	6
Subject Code:	3160003
Subject Name:	Integrated Personality Development Course

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160003.1	Apply techniques of making failure insignificant and practicing faith in daily life.	Ap
C3160003.2	Analyse factors responsible for family bonding and power of leading with humility.	An
C3160003.3	Exhibit strong passion and pride for nation.	Ap
C3160003.4	Analyse the process of remaking oneself with responsibility, accountability, honesty and integrity.	An
C3160003.5	Apply the virtues of self – confidence and humbleness.	Ap

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Semester:	6
Subject Code:	3160914
Subject Name:	Microprocessor and Microcontroller

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160914.1	Explain microprocessor and microcontroller.	U
C3160914.2	Apply fundamental knowledge of buses, addresses, memories of microprocessor and microcontroller for specific applications.	Ap
C3160914.3	Apply gate driver circuits for semiconductor devices using timers and interrupts of microcontrollers especially 8051.	Ap
C3160914.4	Articulate the design of the power electronics equipments for industry oriented problems by interfacing the devices.	Ap
C3160914.5	Solve industry defined problems using microcontroller based systems.	Ap

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Semester:	6
Subject Code:	3160915
Subject Name:	Electrical Measurements and Measuring Instruments

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160915.1	Know the basics of electrical measurements.	R
C3160915.2	Explain basic principle, working, characteristics and applications of the various measuring instruments and transducers.	U
C3160915.3	Apply AC and DC bridges for measurement of electrical parameters like resistance, inductance and capacitance.	Ap
C3160915.4	Prepare the specifications of required measurement systems to be used for measurement of parameters for a specified application.	Ap

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Semester:	6
Subject Code:	3160917
Subject Name:	Wind and Solar Energy

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160917.1	Explain the working of wind and solar photovoltaic generation plants.	U
C3160917.2	Differentiate the stand-alone and grid-connected systems.	An
C3160917.3	Analyse the required capacity of solar system for the given load conditions.	An
C3160917.4	Explain the network integration issues for wind and solar systems.	U
C3160917.5	Describe the solar thermal systems.	U

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Semester:	6
Subject Name:	Electric Drives
Subject Code:	3160919

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160919.1	Explain the concept of an electric drive.	U
C3160919.2	Discuss the characteristics of AC motor and DC motor.	U
C3160919.3	Apply various speed control methods to DC and AC drives.	Ap
C3160919.4	Analyse power electronics converter based DC and AC motor drives.	An

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Semester:	6
Subject Code:	3160920
Subject Name:	Interconnected Power System

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160920.1	Discuss the features of Interconnected power system.	U
C3160920.2	Compute the Ybus and Zbus Numericals using Bus formulation technique.	Ap
C3160920.3	Analyse unit commitment and economic generation of power.	An
C3160920.4	Analyse steady state operation of power system using Load flow Methods.	An
C3160920.5	Describe the concept of stability in power system.	U
C3160920.6	Explain frequency and voltage control methods.	U

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Semester:	6
Subject Code:	3160923
Subject Name:	Electrical Materials

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3160923.1	Discuss Conductors, Dielectric materials & Insulators.	U
C3160923.2	Memorize Electrical Material Properties & Applications.	R
C3160923.3	Classify Types Of Magnetic Materials, their Properties and various Effect in the conductor.	U
C3160923.4	Distinguish Semi-conductor Super Conductors & Properties & Application in Electrical Engineering Field.	An
C3160923.5	Analyse Special Purpose Material in Electrical Network.	An