

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

Semester:	4
Subject Code:	3140005
Subject Name:	Design Engineering 1B

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140005.1	Recognize branch specific artefact or solution.	U
C3140005.2	Apply reverse engineering to artefact or solution as per user's need.	Ap
C3140005.3	Analyse learning needs for solution.	An
C3140005.4	Evaluate solution using props.	E
C3140005.5	Construct rough prototype.	C

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Semester:	4
Subject Name:	Economics for Engineers
Subject Code:	3140911

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140911.1	Describe the principles of economics that help to decide Engineering cost and estimation through multiple models	U
C3140911.2	Review macroeconomics principles and decision making: price and income elasticity of demand	U
C3140911.3	Analyse the inflation, price change, present worth analysis and future worth analysis, cash-flow analysis, benefit-cost analysis and rate of return	An
C3140911.4	Analyse cash flows and compute time value of money, debt repayment and interest	An

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Semester:	4
Subject Code:	3140912
Subject Name:	Electromagnetic Fields

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140912.1	Describe the theoretical concept of magnetic circuit and electromechanical energy conversion.	U
C3140912.2	Explain the construction, working, speed control and applications of DC machines.	U
C3140912.3	Evaluate the operating parameters of machines under various load conditions.	E
C3140912.4	Analyse the performance of DC machine and Transformer.	An
C3140912.5	Describe the construction, working and applications of single and three phase transformers.	U

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Semester:	4
Subject Code:	3140913
Subject Name:	Electrical Machine - 1

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140913.1	Describe the theoretical concept of magnetic circuit and electromechanical energy conversion.	U
C3140913.2	Explain the construction, working, speed control and applications of DC machines.	U
C3140913.3	Evaluate the operating parameters of machines under various load conditions.	E
C3140913.4	Analyse the performance of DC machine and Transformer.	An
C3140913.5	Describe the construction, working and applications of single and three phase transformers.	U

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Semester:	4
Subject Code:	3140914
Subject Name:	Power System - 1

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140914.1	Explain Electrical power generation and power supply system.	U
C3140914.2	Explain power triangle, power factor and improvement equipments of power factor.	U
C3140914.3	Analyse mechanical features and design of overhead transmission line.	An
C3140914.4	Compute resistance, inductance and capacitance of overhead transmission lines.	Ap

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Semester:	4
Subject Code:	3140915
Subject Name:	Power Electronics

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3140915.1	Explain signal level and power devices with its characteristics and applications.	U
C3140915.2	Explain gate driver circuits.	U
C3140915.3	Explain (with example) operation of converters.	U
C3140915.4	Apply software tools for designing converters.	Ap
C3140915.5	Explain snubber circuits for protection of semiconductor devices.	U