

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

Semester:	5
Subject Name:	Design Engineering - II A
Subject Code:	3150001

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150001.1	Determine problems related to community or society	Ap
C3150001.2	Deduce the problem using design engineering methodology	An
C3150001.3	Evaluate solution using props	E
C3150001.4	Construct rough prototype	C
C3150001.5	Validate developed prototype	E

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Semester:	5
Subject Name:	Integrated Personality Development Course-1
Subject Code:	3150005

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150005.1	Apply the restructuring process of one self and the impact of power of habit of righteous, disciplined and addiction free value based life	Ap
C3150005.2	Practice the virtues of affection and forgiveness in relationships	Ap
C3150005.3	Analyse the factors responsible for failures and ways to overcome it	An
C3150005.4	Exhibit teamwork, networking, decision making and leadership skills	Ap
C3150005.5	Apply the principles of project management and financial planning	Ap

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Semester:	5
Subject Name:	Concrete Technology
Subject Code:	3150610

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150610.1	Compare importance of concrete over other materials	An
C3150610.2	Evaluate properties of concrete making materials	E
C3150610.3	Evaluate behavioral properties of fresh and hardened concrete	E
C3150610.4	Design concrete mixes as per Indian Standards.	C
C3150610.5	Choose special concrete and concreting method	E
C3150610.6	Analyse Non-Destructive Testing on concrete structures	An

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Semester:	5
Subject Name:	Transportation Engineering
Subject Code:	3150611

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150611.1	Design highway geometry, intersection and pavement	C
C3150611.2	Explain requirements of pavement maintenance	U
C3150611.3	Explain Highway Drainage, Arboriculture and Lighting	U
C3150611.4	Perform traffic surveys	Ap
C3150611.5	Explain aspects of railway, waterway & Airway	U

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Semester:	5
Subject Name:	Design of Structures
Subject Code:	3150612

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150612.1	Explain design philosophy and its applicability in designing structural elements.	U
C3150612.2	Describe properties of reinforced concrete and Structural steel, loads & its combinations used in design of structural elements.	U
C3150612.3	Design reinforced concrete and Steel structural components using limit state method.	C
C3150612.4	Assess capacity of reinforced concrete and Steel structural elements.	E

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Semester:	5
Subject Name:	Pavement Design and Highway construction
Subject Code:	3150613

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150613.1	Evaluate the physical properties of highway material.	E
C3150613.2	Design flexible and rigid pavement.	C
C3150613.3	Explain Construction Methodology for flexible and rigid pavement.	U
C3150613.4	Evaluate maintenance and treatment of flexible and rigid pavement.	E
C3150613.5	Explain new technology in the highway construction.	U

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Semester:	5
Subject Name:	Structural analysis-II
Subject Code:	3150614

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150614.1	Analyse continuous beams and frames with different end conditions by slope deflection and moment distribution method.	An
C3150614.2	Analyse continuous beams and frames using stiffness and flexibility matrix methods by system approach	An
C3150614.3	Calculate displacements of statically determinate structures and support reaction of indeterminate structures using Castigliano's theorem and Unit Load Method	Ap
C3150614.4	Analyse statically determinate and indeterminate beams due to moving load.	An

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Semester:	5
Subject Name:	Remote Sensing and GIS
Subject Code:	3150617

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3150617.1	Explain aspects of remote sensing and GIS	U
C3150617.2	Apply image interpretation and digital image processing techniques for remote sensing images	Ap
C3150617.3	Apply Remote sensing and GIS for spatial analysis	Ap

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