

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

Semester:	3
Subject Name:	Indian Constitution
Subject Code:	3130007

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130007.1	Summarize the need and history of the Constitution of India.	U
C3130007.2	Recognize the Fundamental Rights and Fundamental Duties of the Indian Citizen to instill morality, social values, honesty, dignity of life and their social Responsibilities with emphasis on Articles 14, 19 and 21	U
C3130007.3	Explain law enactment , directive principles of state policy and importance of the Constitution	U
C3130007.4	Recognize the distribution of Legislative, Judicial, Executive and Financial powers between the states, the local self-governments and the union.	U
C3130007.5	Describe the process of formation of the parliamentary form of government, status of the president and the guidelines given for Emergency provisions in the Constitution of India.	U
C3130007.6	Illustrate the process of amendments with emphasis on the history of amendments in the Constitution of India.	U

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Semester:	3
Subject Name:	Design Engineering - I A
Subject Code:	3130008

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130008.1	Explain Design engineering and its methodology	U
C3130008.2	Determine problems using design engineering methodology	Ap
C3130008.3	Deduce the problem using design engineering methodology	An
C3130008.4	Evaluate the possible solution using props	E
C3130008.5	Construct rough prototype	C

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Semester:	3
Subject Name:	Geotechnical Engineering
Subject Code:	3130606

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130606.1	Calculate the soil properties and their inter-relationship.	Ap
C3130606.2	Evaluate Permeability and Seepage for stratified soil using Darcy's Law	E
C3130606.3	Perform Compaction and Consolidation test on soil.	Ap
C3130606.4	Analyse stress distribution and shear strength parameters.	An
C3130606.5	Calculate earth pressure and FOS for slopes using analytical and graphical methods.	Ap
C3130606.6	Choose appropriate type of foundation.	E

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Semester:	3
Subject Name:	Building Construction Technology
Subject Code:	3130607

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130607.1	Explain shallow & deep foundation.	U
C3130607.2	Describe masonry construction & finishes.	U
C3130607.3	Explain building components, form work, pre cast & cast in situ construction. / and construction methods.	U
C3130607.4	Explain operations involved in special works & treatments.	U
C3130607.5	Explain the concepts of green building.	U

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Course Outcomes & PO/PSO Mapping

Semester:	3
Subject Name:	Mechanics of Solids
Subject Code:	3130608

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130608.1	Solve examples of rigid bodies using fundamental principles of static mechanics.	Ap
C3130608.2	Analyse statically determinate beams and trusses	An
C3130608.3	Determine Centroid of line, area, volume and Moment of Inertia of plane areas.	Ap
C3130608.4	Solve examples of stresses and strains.	Ap
C3130608.5	Explain mechanical properties and behaviour of engineering materials under various forces and conditions.	U
C3130608.6	Calculate parameters of simple lifting machines.	Ap

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Course Outcomes & PO/PSO Mapping

Semester:	3
Subject Name:	Building and Town Planning
Subject Code:	3130609

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130609.1	Illustrate principles of architectural planning and composition.	U
C3130609.2	Describe building byelaws, Real Estate Regulatory Authority (RERA) laws, National Building Code (NBC) and ODPS (Online Development Permission System) related to building planning.	U
C3130609.3	Produce drawings using manual drafting techniques and Computer Aided Design and Drafting (CADD) software	C
C3130609.4	Explain aspects of town planning	U
C3130609.5	Describe use of Geographic Information System (GIS) and Building Information Modelling (BIM).	U
C3130609.6	Describe causes, problems and methods of slum clearance.	U

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Semester:	3
Subject Name:	Effective Technical Communication
Subject Code:	3130004

After learning the course the students will be able to:

CO Number	Course Outcomes	CL
C3130004.1	Discuss dynamics of verbal and non-verbal communication as per their requirement	U
C3130004.2	Design and drafting of various formal documents for technical and professional communication.	C
C3130004.3	Demonstrate communicative skills in diverse situations taking place in organization.	U
C3130004.4	Practice the ethical knowledge of engineering as a profession	Ap
C3130004.5	Demonstrate social and professional etiquettes	U
C3130004.6	Practice self-assessment for self-development and professional readiness	Ap

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