



Vidya Vikas Education Trust's
Universal College of Engineering, Kaman Road, Vasai-401212

DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOMES

Year/Class/ Semester: T.E./CE/ V

Subject Code	Subject Name	CO's
CE-C501	Structural Analysis - II	At the end of the course students will be able to CO1- Identify stable, unstable, determinate and indeterminate structures. CO2- Determine the deflection of determinate structures due to temperatures effect & settlement. CO3- Analyse the indeterminate structures by force methods. CO4- Analyse the indeterminate structures by displacement methods. CO5- Get the idea about plastic analysis and will be able to determine shape factor, plastic moment carrying capacity and collapse load.
CE-C502	Geotechnical Engg.- I	At the end of the course students will be able to: CO1- Understand properties of soil and also able to understand interrelationship between soil properties CO2- Understand and analyse particle size and plasticity characteristic and also able to classify the soil CO3- To calculate phenomenon such as permeability and seepage CO4- To understand principle stress and shear strength developed in soil CO5- To understand phenomenon such as compaction, consolidation of soil CO6- To conduct various methods of investigation and test on soil.
CE-C503	Building Design and Drawing – II	At the end of the course students will be able to: CO1- Understand the planning concepts, rules, regulations, various types of authorities for public building. CO2- Get knowledge and able to draw one point & two point perspective drawings for public buildings. CO3- Understand redevelopment concept and residential planning CO4- Familiar with objective and principles of town planning. CO5- Get knowledge of architecture & modular planning by using computer in building planning & Design. CO6- Understand green building concept and its certification method.
CE-C504	Applied Hydraulics - I	At the end of the course students will be able to CO1- Able understood the momentum principle, moment of momentum equation and applications of hydraulic machines CO2- Able to understand the significance of dimensionless numbers, concept of dimensional homogeneity and different types of model laws and their applications



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		<p>CO3- Able to determine force exerted on stationary flat plates which held normal and vertical to jet and also for curved plate.</p> <p>CO4- Able to understand about the general layout, working procedure of hydro electric plates and calculations of efficiencies for different turbines</p> <p>CO5- Understood the working procedure of centrifugal pumps, series parallel operations involved and reciprocating pumps</p> <p>CO6- Gets the knowledge of applications of different types hydraulics machines like hydraulic rams, hydraulic accumulator, press, hydraulic intensifiers and hydraulic lifts</p>
CE-C505	Transportation Engineering - I	<p>At the end of the course students will be able to</p> <p>CO1- Understand the elements of Air Transportation such as terminal building, parking facilities, apron, hangars, markings and lightings, airport drainage, ATC etc.</p> <p>CO2- To design the airport elements such as runway orientation, length, gate and taxiway.</p> <p>CO3- To understand elements of water transportation like harbours, ports and breakwater including study of facilities and equipment's used.</p> <p>CO4- To decide the Cross Section of the Permanent way and suggest suitable ballast, sleepers, rail and their fixtures and fasteners.</p> <p>CO5- To understand and design the geometric elements of Railway Line such as Gradient, Curves, Super Elevation, Turnouts etc.</p> <p>CO6- To understand working of yards, signalling systems, maintenance of railway track and its construction and modernization.</p>