

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

SYLLABUS FOR MID SEM EXAM-SEPT-2018

FIRST YEAR(1ST SEM)

SEM	Sub Code	Subject	Unit No (GTU Syllabus)	Unit Name(GTU Syllabus)
1 (GROUP 1) AUTO CIVIL MECH	3110003	Programming for Problem Solving	1,2,3,4	Unit -1: Introduction to computer and programming Unit -2 : Fundamentals of C Unit -3: Control structure in C Unit 4: Array and String
	3110004	Basic Civil Engineering	1,2	Unit - 1 : Introduction to Civil Engineering And Civil Engineering Materials Unit - 2 : Introduction to Building And Town Planning and Refer Question Bank
	3110006	Basic Mechanical Engineering	3,4,6,7,10	Unit - 3 : Properties of gases Unit - 4 : Properties of Steam Unit - 6 : Steam Boilers Unit - 7 : Internal Combustion Engines, Unit - 10 : Refrigeration & Air Conditioning
	3110013	Engineering Graphics & Design	1,2,3	Unit - 1 :Introduction to Engineering Graphics Unit - 2 :Loci of Points Unit - 3 :Engineering Curves (Classification and application of Engineering Curves, Construction of Conics)
	3110014	Mathematics – I	1,2,6	Unit-1: Indeterminate Forms and L'Hospital's Rule Unit-2: Convergence and divergence of sequences, The Sandwich Theorem for Sequences, The Continuous Function Theorem for Sequences, Bounded Monotonic Sequences, Convergence and divergence of an infinite series , Geometric series, Telescoping series (nth partial sum series test), th term test for divergent series (Zero Test), Combining series, Integral test, The P-series, The Comparison test, The Limit Comparison test, Ratio test, Raabe's Test, Root test, Alternating series test (Leibnitz's Test) Unit-6: Elementary row operations in Matrix, Row echelon and Reduced row echelon forms, Rank by echelon forms, Inverse by Gauss-Jordan method, Solution of system of linear equations by Gauss elimination and Gauss Jordan methods.
Semester	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
1 (GROUP 2) IT EC CE EE	3110002	English	1,3,6	Unit - 1 : Vocabulary building Unit - 3 : Identifying Common Errors in Writing Unit - 6 : Writing Practices
	3110005	Basic Electrical Engineering	1,3	Unit - 1 : DC Circuits Unit - 3 : Transformers
	3110007	Environmental Sciences	2,3	Unit 2: Water Pollution Unit -3: Global Environmental Issues
	3110011	Physics	1,5	Unit 1: Free Electron Theory Unit -5: Superconductivity
	3110014	Mathematics – I	1,2,6	Unit-1: Indeterminate Forms and L'Hospital's Rule Unit-2: Convergence and divergence of sequences, The Sandwich Theorem for Sequences, The Continuous Function Theorem for Sequences, Bounded Monotonic Sequences, Convergence and divergence of an infinite series , Geometric series, Telescoping series (nth partial sum series test), th term test for divergent series (Zero Test), Combining series, Integral test, The P-series, The Comparison test, The Limit Comparison test, Ratio test, Raabe's Test, Root test, Alternating series test (Leibnitz's Test) Unit-6: Elementary row operations in Matrix, Row echelon and Reduced row echelon forms, Rank by echelon forms, Inverse by Gauss-Jordan method, Solution of system of linear equations by Gauss elimination and Gauss Jordan methods.