

Date:14/10/2019

Shantilal Shah Engineering College,
Bhavnagar

PDDC SEM-1(CIVIL & MECHANICAL)

Mid Sem Exam Schedule and Syllabus for

Subject : Complex Variable and Partial differential Equations.

Date of Mid Semester Exam: 22/10/2019,

Time : 6:45pm to 8:15 pm at LRC-208

Syllabus of CVPDE PDDC Sem-1

1. Polar Form of Complex Numbers, Powers and Roots, Complex Variable –
Differentiation : Differentiation, Cauchy-Riemann equations, analytic functions, harmonic functions, finding harmonic conjugate; elementary analytic functions (exponential, trigonometric, logarithm) and their properties; Conformal mappings, Mobius transformations and their properties.
2. Laurent's series; Zeros of analytic functions, singularities, Residues, Cauchy Residue theorem (without proof), Residue Integration Method, Residue Integration of Real Integrals.
3. First order partial differential equations, solutions of first order linear and nonlinear PDEs.