ST. FRANCIS INSTITUTE OF TECHNOLOGY
MT. POINSUR, BORIVALI(W), MUMBAI.
Department of Information Technology
Assignment Test-I Syllabus

Class: SE INFT A & B **Subject:** Engineering Mathematics III
MAX Marks: 10

Date of Exam & Time:

SIA1: 30th August,2023 09:00 am – 10:00 am
SIA2: 30th August,2023 09:00 am – 10:00 am
SIA3: 29th August,2023 03:00 pm – 04:00 pm

SIB1: 29th August,2023 09:00 am – 10:00 am
SIB2: 1st September,2023 03:00 pm – 04:00 pm
SIB3: 1st September,2023 03:00 pm – 04:00 pm

Module 4: Complex Variables

4.1 Function f(z)of complex variable, limit, continuity and differentiability of f(z) analytic function, necessary and sufficient conditions for f(z) to be analytic (without proof).
4.2 Cauchy-Riemann equations in Cartesian coordinates (without proof).
4.3 Milne-Thomson method to determine analytic function f(z)when real part (u) or Imaginary part (v) or its combination (u + v or u-v) is given. (2hrs)
4.4 Harmonic function, Harmonic conjugate and orthogonal trajectories

Faculty In-charge,
Ms. Grishalda Dsouza