

Birla Vishvakarma Mahavidyalaya (Engineering College)

[An Autonomous Institution]

105BS: MATHEMATICS II

CREDITS ~ 4 (L: 03; T: 01)

1st Year, B. Tech. (All branches)

Syllabus for Second Mid-Sem Exam

EXAM DATE: 24/03/2025 [Monday: 2.00 pm – 3.00 pm]

Module 2: Ordinary differential equations of higher orders:

- Second order linear differential equations: Solution by variation of parameters
- Euler-Cauchy equations
- Ordinary point and singular (Regular and Irregular) points of the ODE.

Module 4: Complex Variable – Integration:

- Contour integrals
- Cauchy theorem (without proof) and its examples
- Cauchy Integral formula (without proof) and its examples
- Laurent's series and its examples
- Singularities and its examples
- Residues, Cauchy Residue theorem (without proof) and its examples.

PROF (DR) MUKESH E SHIMPI

COURSE COORDINATOR

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AY: 2024-25_EVEN SEM

March 17 2025