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HOLY CROSS COLLEGE (AUTONOMOUS) TIRUCHIRAPALLI - 2.
B.SC. MATHEMATICS

SEMESTER VI

MAJOR (CORE) THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

No of Hours : 5 Max Marks : 100

No of Credits : 5 Code : CUSMAEM13

UNIT I :

Analytic functions

Introduction - Definition - Continuous functions - Convergence of sequences and series absolute convergence - Uniform convergence - Cauchy - Riemann equations.

UNIT II :

Bilinear Transformations:

Elementary transformation - Bilinear transformation - Cross ratio - Fixed points of Bilinear transformation - some special bilinear transformation.

UNIT III :

Integration in the complex plane :

Complex integration - Cauchy's integral theorem (Riemann's proof only) and its extension - Cauchy's integral formula - Derivative of analytic functions - Morera's theorem - Cauchy's inequality for $f(z)$, Liouville's Theorem.

UNIT IV :

Expansion of functions in Power Series

Taylor's theorem - Laurent's theorem - Singular points - Zeros - Pole - Essential singularity - Meromorphic function - Principle of the argument - Rouché's theorem - Fundamental Theorem of Algebra.

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