

July	01/07/2024	06/07/2024	4	Introduction to the Concept of Analytic Function: (Limits and Continuity, Analytic Functions,	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
July	08/07/2024	13/07/2024	4	Introduction to the Concept of Analytic Function Analytic Functions, Polynomials, Rational Functions	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
July	15/07/2024	20/07/2024	4	Elementary Theory of Power Series: (Sequences, Series, Uniform Convergence, Power Series, Abel's Limit Theorem), The Exponential and Trigonometric Functions, Periodicity & Logarithm.	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
July	22/07/2024	27/07/2024	4	Analytic Functions: Conformality, Arcs and Closed Curves, Analytic Functions in Regions	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
July	29/07/2024	31/07/2024	2	Analytic Functions: Conformal Mapping	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors

August	01/09/2024	03/09/2024	2	Analytic Functions: Linear Transformations	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
August	05/08/2024	10/08/2024	4	Analytic Functions: Oriented Circles, Families of Circles	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
August	12/08/2024	17/08/2024	4	Analytic Functions: Elementary Conformal Mappings, A Survey of Elementary Mappings.	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
August	19/08/2024	24/08/2024	4	Complex Integration: Line Integrals, Rectifiable Arcs, Line Integrals as Functions of Arcs	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
August	26/08/2024	31/08/2024	4	Complex Integration: Cauchy's Theorem for a Rectangle, Cauchy's Theorem in a Disk	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
September	02/09/2024	05/09/2024	4	Complex Integration: Cauchy's Integral Formula, Higher Derivatives.	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
September	13/09/2024	14/09/2024	2	Local Properties of Analytical Functions: Removable Singularities. Taylor's Theorem,	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors

September	16/09/2024	21/09/2024	4	Local Properties of Analytical Functions: Laurents Theorem, Zeros, and Poles, Local Mapping,	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
September	23/09/2024	28/09/2024	4	Local Properties of Analytical Functions: Maximum Principle. The General Form of Cauchy's Theorem: Chains and Cycles,	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
October	01/10/2024	05/10/2024	4	The General Form of Cauchy's Theorem: Simple Connectivity The Calculus of Residues: The Residue Theorem,	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
October	07/10/2024	12/10/2024	4	The Calculus of Residues The Argument Principle	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
October	14/10/2024	19/10/2024	4	The Calculus of Residues Evaluation of Definite Integrals.	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors
October	21/10/2024	22/10/2024	2	Revision	Problem Solving	Laptop, Smart Board and writing pad	Complex Analysis by Lars V. Ahlfors

Component	Max Marks
ISA 1	20
ISA 2	20
ISA 3	20
ISA 4	20
Semester End Exam	40