

Lesson Plan of : Real and Complex

Name of Teacher: Ms. POOJA

Class: B.A./B.Sc. 3rd year 6th Sem.

Session: 2023-2024

Week 1	Discussion about exam pattern. Review chapter. Jacobians Beta and Gama functions Examples.
Week 2	Double and Triple integrals Dirichlets integrals Examples.
Week 3	change of order of integration in double integrals. Fourier's series Examples. Test.
Week 4	Dirichlet's conditions Parseval's identity for Fourier series Examples. Assignment-1
Week 5	Fourier series for even and odd functions Examples.
Week 6	Half range series, Change of Intervals. Examples. Test
Week 7	Extended Complex Plane Stereographic projection of complex numbers Examples.
Week 8	continuity and differentiability of complex functions Analytic functions Examples.
Week 9	Cauchy-Riemann equations. Examples. Harmonic functions Examples. Test

Week 10	
	Mappings by elementary functions
	Conformal Mappings
	Assignment-2
	Examples.
Week 11	
	Fixed points
	Cross ratio
	Examples.
Week 12	
	Inverse Points
	critical mappings
	Examples.
Week 13	
	Query