

Govt. College for Girls, Padha (Karnal)

Lesson Plan for Even Semester

Name of the teacher- PREETI RANI

Class- B.A.6TH SEM

Subject-MATHEMATICS

Paper- REAL AND COMPLEX ANALYSIS

1st Week	Jacobians.
2nd Week	Beta and Gamma functions.
3rd Week	Double and triple integrals.
4th Week	Dirichlet's integrals.
5th Week	Change of order of integration in double integrals.
6th Week	Fourier's series: Fourier expansion of piecewise monotonic functions.
7th Week	Properties of Fourier coefficients. Dirichlet's conditions.
8th Week	Parseval's identity for Fourier series.
9th Week	Fourier series for even and odd functions.
10th Week	Half range series. Change of intervals.
11th Week	Extended complex plane. Stereographic projection of complex numbers.
12th Week	Continuity and differentiability of complex functions.
13th Week	Analytic functions.
14th Week	Cauchy-Riemann equations.
15th Week	Harmonic functions
16th Week	Mappings by elementary functions: Translation, Rotation, Magnification and Inversion.
17th Week	Conformal mappings, Mobius transformations.
18th Week	Fixed points, Cross ratio, Inverse points and Critical mappings.
19th Week	TEST AND REVISION.

