Dr. B.R.A. Govt. College ,Jagdishpura, Kaithal

Name of Assistant professor: Ramesh kumar

Class: M.Sc(F) Subject: G.M.I.T.

Week	Topic
1	Measure, some properties of measure, outer measure, extension of measure.
2	Uniqueness of extension, Completion of a measure, the LUB of an
3	increasingly directed family of measures.
4	Measurable function. Combination of mble function, limits of measurable function, localization of mbly.
5	Simple function. Measure space, a.e.
6	f.a.e. everywhere, Cts in measure, fundamental in measure, almost uniform
7	Cts, Egoroff th, Riesz-Weyl th, Integration w.r.t. to measure.
8	Integral simple function, non-negative
9	Integral function. Integrable function, Indefinite integral, the min. prop. of the
10	Product of measure and [illegible], A.C., of Signed measure, Construction, Positive and
11	negative set, Hahn, Jordan, decomposition
12	Approximation, [illegible], the Radon Nikodym th, the Radon-Nikodym th
13	Integration over locally compact space Cts function
14	Borel set. Baire function [illegible] Regular of Borel set, Borel function
15	Integration of [illegible] function, Riesz-Markoff Th

Ramesh kumar

Dr. B.R.A. Govt. College ,Jagdishpura, Kaithal

Name of Assistant professor: Rakesh kumar

Class: M.Sc(F) Subject: ~~Integral Eq.~~ B.V.P

Week	Topic
1	Application of O.D.E., Initial value problem B.V.P, Dirac delta function.
2	Green function approach to reduce
3	boundary value problem to self-adjoint diff. eq. Green function of Nth order
4	Application of P.D.E, Integral representation formula for the Laplace and poisson Eq, The Newton.
5	Single-layer and double problem,
6	Green function for laplace equation in a free space as well as in space of Laplace
7	Poisson Integral formula, Green's function for the space bounded by grounded two
8	parallel plates, Integral transform method
9	Introduction, Fourier transform, Laplace transform, Convolution Integral, Application
10	to Volterra Integral Equation, Application to mixed B.V.P. Two part B.V.P
11	General three part B.V.P.
12	Integral Equation Perturbation Methods Basic Procedure, Application to Electrostatic
13	steady stokes flow, Boundary effects in
14	Stokes flow, longitudinal, steady Rotary stokes Rotary oscillation in stokes flow, Rotary oscillation
15	oseen, flow-Rotary, Elastic Boundary effect Torsion and Rotary oscillation

Rakesh kumar

Dr. B.R.A. Govt. College, Jagdishpura, Kaithal

Name of Assistant professor: Rakesh kumar

Class: B.Sc - III Subject: Maths (Linear Algebra)

Week	Topic
1	Vector space, Subspace., Sum and direct sum, Linear span, L.D.
2	finitely generated vector space, Extension th.
3	finite dim vector space,
4	Invariance of the no of elents of basis, dimension, Quotient space and its dimension.
5	Homo & isomorphism, L.T, Vector space
6	Dual spaces, Bidual spaces, annihilator of subspace, Null space, Range space of L.T
7	Rank and Nullity theorem
8	Algebra of L.T, Minimal poly.
9	of L.T, Singular and non-Singular L.T, Matrix of L.T, Change of Base
10	Eigen values and Eigen vector.
11	I.P.S; Cauchy-Schwarz inequality.
12	orthogonal vectors, orthogonal complents, orthogonal Bcks basis
13	Bessel's inequality for finite dim.
14	vector space, Gram-Schmidt theorem. Adjoint of a L.T, Unitary L.T
15	Revision.

Rakesh kumar

Dr. B.R.A. Govt. College ,Jagdishpura, Kaithal

Name of Assistant professor: Rakesh kumar.

Class: M.Sc-III Subject: Maths (Real and complex)

Week	Topic
1	fourier Series, fourier expansion
2	of piecewise monotic function.
3	Properties of fourier Coefficients
4	Dirichlets conditions, Parseval's identity for fourier Series.
5	fourier Series for even and
"	odd function.
7	Half range Series, change of intervals.
8	Extended complex plane,
9	Stereographic projection of complex number.
10	Continuity of complex function.
11	Analytic function.
12	Analytic function (continued).
13	Cauchy - Riemann equation
14	Harmonic function
15	Revision.