

Department of

Class: B.Com Ist 2nd Sem Subject: Business Mathematics Faculty: Sanyon Kaly

Months	Week 1	Week 2	Week 3	Week 4
March	—	—	—	Chapter 1. Basic Concept of Matrix Algebra of matrices
April	<ul style="list-style-type: none"> - Adjoint of a Matrix. - Row & Column operations - Inverse Matrix - Solution of linear eqⁿ 	<ul style="list-style-type: none"> - Inverse Matrix. - Solution of a system of linear eqⁿ → Unique Solution → Involving not more than three variables. 	Unit-II Differentiation	<ul style="list-style-type: none"> - Method of Differentiation. Test 1
May	<ul style="list-style-type: none"> Application of Differentiation. Assignment 1 	<ul style="list-style-type: none"> - Compound Interest and annuities - certain different type of interest rate. 	<ul style="list-style-type: none"> - Concept of Present value and amount of Sum Test 2 	<ul style="list-style-type: none"> - Amount of an annuity - continuous compounding.
June	<ul style="list-style-type: none"> Ratios Proportion and Percentage Assignment 2 	<ul style="list-style-type: none"> - Profit and Loss 	Revision	Revision

Date:

Signature:

Department of Science

Class: B.Sc 1st Year

Subject: Ordinary Differential Eqⁿ Faculty: Suryan Kalka

Months	Week 1	Week 2	Week 3	Week 4
March	—	—	—	Geometrical meaning of Differential eq ⁿ
April	Exact Differential Equation, Integrating factors.	Lagrange's Equation Clairaut's Equation Singular Solution.	Orthogonal trajectories in cartesian coordinates and polar coordinates.	Self orthogonal Homogeneous linear Ordinary Diff ⁿ Equation. Tes 1
May	Equations reducible to Homogeneous.	linear Differential Equations of Second order.	Reduction to Normal form.	Method of variations of parameters and undetermined coefficients.
	Assignment 1		Test 2	
June	Ordinary differential Equation and their Solution	Method of Auxiliary Equations	Revision	Revision
	Assignment 2			

Date:

Signature:

Suryan Kalka

Department of Science

Class: B, Sc 4th Sem

Subject: Sequence and Series

Faculty: Sujay Bala

Months	Week 1	Week 2	Week 3	Week 4
March	—	—	—	Boundedness of Set of real Numbers.
April	least upper bound greatest lower bound of a set. Interior Point Isolated Point	Open sets, closed sets closure of a set in real numbers and their properties.	Bolzano Weierstrass theorem. - open covers. - compact sets Heine Borel theorem - Test 1	Sequence: - Real Sequence and their convergence, Bounded and Monotonic Sequence
May	Cauchy's sequence subsequences, subsequential limits. Assignment 1	Infinite Series. Convergence & Divergence of Infinite Series	comparison tests of positive terms infinite series	Hyper Harmonic Series or p series. Test 2
June	D'Alembert's Ratio test, Raabe's Test logarithmic test Assignment 2	Cauchy's Integral test, Cauchy's condensation test	Revision	Revision

Date:

Signature:

Sujay Bala

Department of Science

Class: B. Sc 3rd year

Subject: Real & complex analysis Faculty: Guvjan Kalya

Months	Week 1	Week 2	Week 3	Week 4
March	—	—	—	Jacobians, Beta and gamma functions.
April	Double and Triple integrals Dirichlet's integrals.	Change of order of integration in double integrals.	Fourier Series, Properties of Fourier coefficients Test 1	Dirichlet's conditions. Fourier series for even and odd functions.
May	Half-Range Series Change in intervals Assignment - 1	Extended Complex Plane. - continuity and differentiability of complex function	Analytic function Cauchy Riemann eqn Test 2	Harmonic function mapping by elementary func- tions
June	Translation, Rotation Magnification & Inversion.	Mobius transformations Fixed points Cross points Inverse Points and critical mappings.	Revision Test	Revision Test

Date:

Signature:

GK