DEPARTMENT OF MATHEMATICS

TEACHING PLAN OF SESSION-2015-16

PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH

Teaching Plan

Class: BA/BSc I **Paper I (Plane Geometry)**

Subject: Mathematics **Session: 2015-16**

Teacher Name:-INDU JINDAL, Mr. Satish Kumar

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Transformation of axes in two dimensions
Week 2	27th July	1st Aug	Pair of straight lines
Week 3	3rd Aug	8th Aug	Pair of straight lines
Week 4	10th Aug	15th Aug	Circle
Week 5	17th Aug	22nd Aug	Circle
Week 6	24th Aug	29th Aug	Circle
Week 7	31st Aug	5th Sept	The Parabola
Week 8	7th Sept	12th Sept	Mid term Test
Week 9	14th Sept	19th Sept	The Parabola
Week 10	21st Sept	26th Sept	The Parabola
Week 11	28th Sept	3rd Oct	Ellipse
Week 12	5th Oct	10th Oct	Ellipse
Week 13	12thoct	21st Oct	Ellipse

Class: BA/B Sc I **Paper II (Calculus)**

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Differentiation of hyperbolic functions
Week 2	27th July	1st Aug	Indeterminate forms
Week 3	3rd Aug	8th Aug	Indeterminate forms
Week 4	10th Aug	15th Aug	Mean Value Theorems
Week 5	17th Aug	22nd Aug	Mean Value Theorems
Week 6	24th Aug	29th Aug	Mean Value Theorems
Week 7	31st Aug	5th Sept	Successive differentiation
Week 8	7th Sept	12th Sept	Mid Term Test
Week 9	14th Sept	19th Sept	Successive differentiation
Week 10	21st Sept	26th Sept	Property of Real Numbers
Week 11	28th Sept	3rd Oct	Property of Real Numbers
Week 12	5th Oct	10th Oct	Limits and continuity
Week 13	12th Oct	21st Oct	Limits and continuity

Class: BA/ BSc I **Paper III Trigonometry and Matrices**

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Complex Plane and De Moivre Theorem
Week 2	27th July	1st Aug	Applicatios of De Moivre
Week 3	3rd Aug	8th Aug	Applicatios of De Moivre
Week 4	10th Aug	15th Aug	Elementary Functions of a Complex Variable
Week 5	17th Aug	22nd Aug	Elementary Functions of a Complex Variable
Week 6	24th Aug	29th Aug	Summation of series
Week 7	31st Aug	5th Sept	Special Types of Matrices
Week 8	7th Sept	12th Sept	Mid term test
Week 9	14th Sept	19th Sept	Special Types of Matrices
Week 10	21st Sept	26th Sept	Elementary Operations and Rank of a matrix
Week 11	28th Sept	3rd Oct	Elementary Operations and Rank of a matrix
Week 12	5th Oct	10th Oct	Eigen Values and Eigen Vectors of a Matrix
Week 13	12thoct	21stoct	Eigen Values and Eigen Vectors of a Matrix

CLASS- B.A,B.SC-II YEAR.

Teaching Plan

Class: BSc II **Paper -I**

Subject: Mathematics

Teacher Name:-Mrs. Urmila Rani ,Mr. Satish Kumar

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Jacobians
Week 2	27th July	1st Aug	Jacobians
Week 3	3rd Aug	8th Aug	Jacobians
Week 4	10th Aug	15th Aug	Maxima and Minima
Week 5	17th Aug	22nd Aug	Maxima and Minima
Week 6	24th Aug	29th Aug	Maxima and Minima
Week 7	31st Aug	5th Sept	Maxima and Minima
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Maxima and Minima
Week 10	21st Sept	3rd Oct	Involute and evolute
Week 11	5th Oct	10th Oct	Involute and evolute
Week 12	12th Oct	21st Oct	Involute and evolute

Class: BSc II **Paper II**

Subject: Mathematics

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Exact differential Eq
Week 2	27th July	1st Aug	Exact differential Eq
Week 3	3rd Aug	8th Aug	Diff Eq of 1st order and higher degree
Week 4	10th Aug	15th Aug	Diff Eq of 1st order and higher degree
Week 5	17th Aug	22nd Aug	Diff Eq of 1st order and higher degree
Week 6	24th Aug	29th Aug	Diff Eq of 1st order and higher degree
Week 7	31st Aug	5th Sept	Singular Solution of differential equations
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Singular Solution of differential equations
Week 10	21st Sept	3rd Oct	Linear Differential equations of 2nd order with constant coeff
Week 11	5th Oct	10th Oct	Linear Differential equations of 2nd order with constant coeff
Week 12	12th Oct	21st Oct	Linear Diff.Eq.of 2nd order with const.coeff

Class: BSc II **Paper III**

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Forces acting at a point
Week 2	27th July	1st Aug	Forces acting at a point
Week 3	3rd Aug	8th Aug	Any number of forces acting at a point
Week 4	10th Aug	15th Aug	Parallel forces
Week 5	17th Aug	22nd Aug	Moments
Week 6	24th Aug	29th Aug	Moments
Week 7	31st Aug	5th Sept	couples
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Equilibrium of three coplanar forces acting on a rigid body
Week 10	21st Sept	3rd Oct	Equilibrium of three coplanar forces acting on a rigid body
Week 11	5th Oct	10th Oct	Equilibrium of three coplanar forces acting on a rigid body
Week 12	12th Oct	21st Oct	Friction

CLASS –B.A,B.SC.-III YEAR

Teaching Plan

Class: B.A./B.SC.111 **Paper :1(Analysis)**

Subject: Mathematics

Teacher Name-Mrs. Kanta Tulseja ,Mrs.Urmila Rani

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Countable and Uncountable Sets
Week 2	27th July	1st Aug	Riemann Integrations
Week 3	3rd Aug	8th Aug	Riemann Integrations
Week 4	10th Aug	15th Aug	Riemann Integrations
Week 5	17th Aug	22nd Aug	Improper Integrals
Week 6	24th Aug	29th Aug	Improper Integrals
Week 7	31st Aug	5th Sept	Beta and Gemma Functions
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Integrals as a functionof a Parameter
Week 10	21st Sept	3rd Oct	Double and Triple Integrals
Week 11	5th Oct	10th Oct	Double and Triple Integrals
Week 12	12thoct	21thOCT	Double and Triple Integrals

Class: B.A./B.SC.111 **Paper:11 (Abstract Algebra)**

Subject: Mathematics

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Groups
Week 2	27th July	1st Aug	Groups
Week 3	3rd Aug	8th Aug	Subgroups
Week 4	10th Aug	15th Aug	Subgroups
Week 5	17th Aug	22nd Aug	Subgroups
Week 6	24th Aug	29th Aug	Subgroups
Week 7	31st Aug	5th Sept	Subgroups
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Subgroups
Week 10	21st Sept	3rd Oct	Subgroups
Week 11	5th Oct	10th Oct	Subgroups
Week 12	12th Oct	21stoct	Homomorphism of Groups

Class: B.A./B.SC.111 **Paper :111 (Probability Theory)**

Subject: Mathematics

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Notion of Probability
Week 2	27th July	1st Aug	Notion of Probability
Week 3	3rd Aug	8th Aug	Notion of Probability
Week 4	10th Aug	15th Aug	Notion of Probability
Week 5	17th Aug	22nd Aug	Skewness and Kurtosis
Week 6	24th Aug	29th Aug	Skewness and Kurtosis
Week 7	31st Aug	5th Sept	Skewness and Kurtosis
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Random Variables
Week 10	21st Sept	3rd Oct	Random Variables
Week 11	5th Oct	10th Oct	Random Variables
Week 12	12th Oct	21stoct	Random Variables

B.C.A-I YEAR

Class: B.C.A.-I **Paper -I**

Subject: Mathematics

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Concepts of C(n,r)
Week 2	27th July	1st Aug	Binomial Theorem
Week 3	3rd Aug	8th Aug	Binomial Theorem
Week 4	10th Aug	15th Aug	Binomial Theorem
Week 5	17th Aug	22nd Aug	Binomial Theorem
Week 6	24th Aug	29th Aug	Trigonometry-I
Week 7	31st Aug	5th Sept	Trigonometry-I
Week 8	7th Sept	12th Sept	September Exam.
Week 9	14th Sept	19th Sept	Trigonometry-II
Week 10	21st Sept	3rd Oct	Trigonometry-II
Week 11	5th Oct	10th Oct	Limits
Week 12	12th Oct	21st Oct	Continuity

BCA-III YEAR

Class:- BCA-III **Paper**

Subject: MATHEMATICS

S. No	Date From	Date Up to	Topics to be covered
Week 1	20th July	25th July	Mathematical Induction
Week 2	27th July	1st Aug	Applications of mathematical induction
Week 3	3rd Aug	8th Aug	Set theory, Venn diagrams and operations on sets
Week 4	10th Aug	15th Aug	Operations on sets, Cartesian product, max term and min term
Week 5	17th Aug	22nd Aug	Relations and its types, properties of relations
Week 6	24th Aug	29th Aug	Composition, Equivalence classes, partitions and Hasse diagrams
Week 7	31st Aug	5th Sept	Recursion and recurrence relations- recursive algorithms, solution of linear recurrence relations

Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Total solution and Method of generating functions
Week 10	21st Sept	3rd Oct	Graph theory- graph and planar graphs,
Week 11	5th Oct	10th Oct	multi graphs, weighted graphs, path and circuits
Week 12	12th Oct	21st Oct	Shortest path, Eulerian path and circuits.

CLASS-M.SC BOTANY

Class: M. SC. BOTANY **Paper -4**

Subject: BIO STATISTICS

S. No	Date From	Date Upto	Topics to be covered
Week 1	20th July	25th July	Basics of statistics
Week 2	27th July	1st Aug	Basics of statistics
Week 3	3rd Aug	8th Aug	Representation of data
Week 4	10th Aug	15th Aug	Representation of data
Week 5	17th Aug	22nd Aug	Population and samples
Week 6	24th Aug	29th Aug	Basics of probability
Week 7	31st Aug	5th Sept	Basics of probability
Week 8	7th Sept	12th Sept	September Exam
Week 9	14th Sept	19th Sept	Binomial Distribution
Week 10	21st Sept	3rd Oct	Normal Distribution
Week 11	5th Oct	10th Oct	Poisson Distribution
Week 12	12th Oct	21st Oct	Correlation and Regression Analysis

: