Name of Assistant Lecturer: Ms. Meenu Kalra
Class :   B.Sc./B.A.-1
Subject: Mathematics
Paper: Vector Calculus(BM-123)

WEEK	DATE	TOPIC
1	16-APR-2021	Multiple product of vectors
	17-APR-2021	Revision of Scaler and vectors,Definition,Type and properties
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Revision continued of Vectors,Direction cosines and direction cosines and direction ratios ,Scaler and vector product.
	20-APR-2021	Triple product,Determinant form and properties of scaler triple product
	21-APR-2021	***Ram Navmi***
	22-APR-2021	Continued
	23-APR-2021	Geometrical interpretation of scaler triple product,volume of a tetrahedran & based theorem
	24-APR-2021	Numerical based on scaler triple product.
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Numerical continued on scaler triple produ
	27-APR-2021	Vector triple product,Expansion formula,Numericals.
	28-APR-2021	Numericals continued on vector triple product
	29-APR-2021	Unsolved question of vector Triple product
	30-APR-2021	Scaler product of four vectors,vector product of four vectors,related examples.
	01-MAY-2021	Unsolved numerical of product of four vectors
	02-MAY-2021	**SUNDAY**
4	03-MAY-2021	Reciprocal system of vectors and their properties
	04-MAY-2021	Solved numerical of reciprocal system
	05-MAY-2021	Unsolved numerical of reciprocal system
	06-MAY-2021	Problem and queries discussed on multiple product of vectors
	07-MAY-2021	Differentiation of vectors,Introduction ,scaler and vector function,scaler and vector fields.
	08-MAY-2021	Limit of a vector function,based theorems,Continuity of vector function,based theorems.
	09-MAY-2021	**SUNDAY**
5	10-MAY-2021	Derivative of a vector function w.r.t. scaler successive derivative,based theorems.
	11-MAY-2021	Continued
	12-MAY-2021	Derivative of a vector function w.r.t. scaler successive derivative,based theorems
	13-MAY-2021	Derivative of function,constant vectorsand based theorems

	14-MAY-2021	*Eid*
	15-MAY-2021	Some important theorems on above discussed topics
	16-MAY-2021	**SUNDAY**
6	17-MAY-2021	Numericals on differentiation of vectors.
	18-MAY-2021	Unsolved numerical on differentiation of vectors
	19-MAY-2021	Curves in space,Tangent vectors,velocity and acceleration..
	20-MAY-2021	Numericals on tangent vector,velocity and acceleration.
	21-MAY-2021	Gradient,Divergence and Curl.
	22-MAY-2021	Partial derivative of vector function &rules.
	23-MAY-2021	**SUNDAY**
7	24-MAY-2021	Gradient,Divergence and curl
	25-MAY-2021	Partial derivative of vector function &rules.
	26-MAY-2021	Two vector differentitation operator,Gradient of the product of two vectors.
	27-MAY-2021	Level surfaces based theorems,Directional derivative of scaler point function
	28-MAY-2021	Equation of tangent plane and normal to level surface based theorems
	29-MAY-2021	Divergence of vector function and their properties,Numericals
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Curl of a vector point function & Their properties,Numericals
	01-JUN-2021	Second order Differential functions,Lapilacian operator,Harmonic function.
	02-JUN-2021	Introduction,Coordinate surfaces and curves,orthogonal curvilinear coordinates,condition for orthogonality & its unit vectors
	03-JUN-2021	Arc length,Volume element and area element
	04-JUN-2021	Cylindrical & spherical coordinates
	05-JUN-2021	Based numericals
	06-JUN-2021	**SUNDAY**
9	07-JUN-2021	Indefinite and definite integral and based theorems
	08-JUN-2021	Line integrals and based numericals
	09-JUN-2021	Numericals continued and work done by force
	10-JUN-2021	Surface integrals & numericals
	11-JUN-2021	Volume integrals & numericals
	12-JUN-2021	Gauss's Divergence theorem
	13-JUN-2021	**SUNDAY**
10	14-JUN-2021	Deductions from Gauss's Divergence theorem
	15-JUN-2021	Green's theorem ,Reduction of surface integral to line integral
	16-JUN-2021	Stoke's theorems,Cartesian form in plane,Cartesian form in space
	17-JUN-2021	Green's Divergence theorem
	18-JUN-2021	Green's Theorems,Reduction of surface integral to line integral
	19-JUN-2021	Stoke's theorem,Cartesian form in plane,Cartesian form in space
	20-JUN-2021	**SUNDAY**

	21-JUN-2021	Green's theorem in plane is special case of stoke's theorem
11	22-JUN-2021	Continued
	23-JUN-2021	Numericals
	24-JUN-2021	*Sant Kabir Das Jayanti*
	25-JUN-2021	**Assignment on vector integration**
	26-JUN-2021	**Class test on vector integration**
	27-JUN-2021	**SUNDAY**
12	28-JUN-2021	**Assignment on Gauss's,Green's and Stoke's theorem**
	29-JUN-2021	**Class test on Gauss's,Green's and Stoke's Theorem**
	30-JUN-2021	**Continued**

Name of Assistant Lecturer: Ms. Meenu Kalra
Class : B.Sc. II (SEM-4)
Subject: Mathematics
Paper: Programming in C & Numerical Methods

WEEK	DATE	TOPIC
1	16-APR-2021	Solution of algebraic and transcendental equations.
	17-APR-2021	An introduction to algebraic and transcendental equations.
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Introduction to Numerical methods to find the solution of algebraic and transcendental equations. Bolzano Bisection method and examples to find a real approximate root of a erquation by using this method.
	20-APR-2021	Regula Falsi method and examples to find a real approximate root of a equation by using this method,the concept of order of convergence and the order of convergence of Regula falsi method.
	21-APR-2021	*Ram Navmi*
	22-APR-2021	Secant method and examples to find a real approximate root of a equation by using this method
	23-APR-2021	Newton Raphson method and examples to find a real approximate root of a equation by using this method.
	24-APR-2021	Order of convergence of Newton Raphson method
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Comparison of all above iterative methods on the basis of order of convergence.
	27-APR-2021	Examples to find square root,cube root,pth root,reciprocal of a number using Newton Raphson method.
	28-APR-2021	Comparison of all above iterative methods on the basis of order of convergence.
	29-APR-2021	Examples to find square root,cube root,pth root,reciprocal of a number using

		Newton Raphson method.
	Discussion on students problems regarding previous lectures.	Discussion on students problems regarding previous lectures.
	Test	Test
	02-MAY-2021	**SUNDAY**
4	03-MAY-2021	Chapter 2:Simultaneous linear algebraic equations
	04-MAY-2021	Introduction to simultaneous linear algebraic equations
	05-MAY-2021	Gauss elimination method and related examples.
	06-MAY-2021	Revision
	07-MAY-2021	Chapter 2:Simultaneous linear algebraic equations
	08-MAY-2021	Introduction to simultaneous linear algebraic equations
	09-MAY-2021	Gauss elimination method and related examples.
Chapter 2:Simultaneous linear algebraic equations Introduction to simultaneous linear algebraic equations Gauss elimination method and related examples.	10-MAY-2021	Reduction of a linear transformation to triangular form
	11-MAY-2021	Continued
	12-MAY-2021	Gauss Jordan method and related examples.
	13-MAY-2021	Triangularisation method and related examples
	14-MAY-2021	***Eid***
	15-MAY-2021	Triangularisation method and related examples
	16-MAY-2021	**SUNDAY**
6	17-MAY-2021	Crout's method and related examples.
	18-MAY-2021	Crout's method and related examples.
	19-MAY-2021	Cholesky decomposition method and related examples
	20-MAY-2021	Continued….
	21-MAY-2021	Jacobi method and related examples
	22-MAY-2021	Jacobi method and related examples
	23-MAY-2021	**SUNDAY**
	24-MAY-2021	Gauss seidal method and related examples .
	25-MAY-2021	Gauss seidal method and related examples….continued
	26-MAY-2021	Relaxation method
	27-MAY-2021	Continued

7	28-MAY-2021	Examples based on Relaxation method.
	29-MAY-2021	Examples based on Relaxation method....Continued
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Students problems on the above topics.
	01-JUN-2021	Class test
	02-JUN-2021	Computers: A general introduction
	03-JUN-2021	Programmer model of a computer
	04-JUN-2021	Algorithms
	05-JUN-2021	Flow charts
	06-JUN-2021	**SUNDAY**
9	07-JUN-2021	Introduction to programming language C
	08-JUN-2021	C-character set,keywords,constant and its types,Escape sequence
	09-JUN-2021	Maharishi Dayanand Jyanti
	10-JUN-2021	Data types
	11-JUN-2021	Printf statements,scanf statements,new line character
	12-JUN-2021	Operators and expressions
	13-JUN-2021	**SUNDAY**
10	14-JUN-2021	Decision control structure
	15-JUN-2021	Decision,logical & Conditional statements
	16-JUN-2021	Some C programs using above conditional statements
	17-JUN-2021	Introduction of counter control and Sentinel controlled loops
	18-JUN-2021	Some C programs using loops
	19-JUN-2021	Functions continued
	20-JUN-2021	**SUNDAY**
11	21-JUN-2021	Local global variables
	22-JUN-2021	Some C programs using functions
	23-JUN-2021	Practicals
	24-JUN-2021	*Sant Kabir Das Jayanti*
	25-JUN-2021	**Practicals**
	26-JUN-2021	**Practicals**
	27-JUN-2021	**SUNDAY**
12	28-JUN-2021	**Practicals**
	29-JUN-2021	**Practicals**
	30-JUN-2021	**Practicals**

Name of Assistant Lecturer: Ms. Silky

Class :   B.SC./B.A.(SEM -6)

Subject: Mathematics

Paper: DYNAMICS(BM-363)

WEEK	DATE	TOPIC
1	16-APR-2021	Basic concepts and definitions –space,matter,particle,rigid body.Displacement of a particle.
	17-APR-2021	Expression for a velocity at a point,relative velocity.
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Accleration due to gravity ,particle projected vertically downwards.
	20-APR-2021	Components of velocity and acceleration along the coordinate axes.
	21-APR-2021	*Ram Navmi*
	22-APR-2021	Motion of a particle along a plane curve with constant angular acceleration.
	23-APR-2021	Examples related to above topics.Radial and transverse velocities and acc. Polar co-ordinates.
	24-APR-2021	Tangential and normal components of velocity of a particle.Tangential and normal components of acceleration.
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Examples related to above topics.
	27-APR-2021	Relative motion:relative displacement,relative velocity and their examples.
	28-APR-2021	Determination of relative velocity ,magnitude of relative velocity and their examples.
	29-APR-2021	Simple Harmonic motion (SHM),velocity of a particle executing SHM
	30-APR-2021	Nature and amplitude of SHM ,periodic motion ,SHM is periodic.
	01-MAY-2021	Examples related to above topics.
	02-MAY-2021	**SUNDAY**
4	03-MAY-2021	Elastic string :hooke's law,work done against the tension.
	04-MAY-2021	Horizontal and vertical elastic string ,related examples.
	05-MAY-2021	Newton's 1st,second and third laws of motion.
	06-MAY-2021	Weight of a body and related examples.
	07-MAY-2021	Pressure of a body resting on a horizontal plane moving downwards.
	08-MAY-2021	Motion of a lift and examples.motion of two bodies connected by a string,atwood's machine.
	09-MAY-2021	**SUNDAY**
5	10-MAY-2021	Related examples.
	11-MAY-2021	Work done by a variable force ,work done in stretching an elastic string.
	12-MAY-2021	Related examples.
	13-MAY-2021	Power and its examples.
	14-MAY-2021	*Eid*
	15-MAY-2021	Energy:to show that the K.E. of a particle is ½*m*v*v
	16-MAY-2021	**SUNDAY**
	17-MAY-2021	Principle of work and energy ,principle of conservation of energy.

6	18-MAY-2021	Related examples .
	19-MAY-2021	Impulse of a constant force ,impulse of a variable force.
	20-MAY-2021	Motion of a particle on a smooth and rough plane curves.
	21-MAY-2021	Based examples.
	22-MAY-2021	Test on work ,power and energy.
	23-MAY-2021	**SUNDAY**
7	24-MAY-2021	Motion on the outside of a smooth vertical circle and related examples.
	25-MAY-2021	Motion on the inside of a smooth vertical circle and related examples.
	26-MAY-2021	Cycliodal motion:cycloid ,result for a cycloid ,motion on a cycloid.
	27-MAY-2021	Related examples.
	28-MAY-2021	Test and revision.
	29-MAY-2021	Motion on a rough curve under gravity and related examples.
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Projectiles:introduction –trajectory,angle of projection.
	01-JUN-2021	Latus rectum,vertex ,focus ,directrix,axis of the trajectory of a particle.
	02-JUN-2021	Time of flight,horizontal range.
	03-JUN-2021	Greatest height of a projectile and to find the dir of projectiles.
	04-JUN-2021	Group discussion on projectiles.
	05-JUN-2021	Velocity at any point of the trajectory and examples.
	06-JUN-2021	**SUNDAY**
9	07-JUN-2021	Dir. In which a particle be projected to pass through a given point.
	08-JUN-2021	Least velocity for a particle to hit a given ptand time of flight.
	09-JUN-2021	Related examples.
	10-JUN-2021	Range and time of flight on inclined plane ,max range up the plane
	11-JUN-2021	Continued
	12-JUN-2021	Range and time of flight down an inclined plane and related examples.
	13-JUN-2021	**SUNDAY**
10	14-JUN-2021	Central orbits,central force,thm on central orbit,polar form
	15-JUN-2021	Areal velocity and its theorem.
	16-JUN-2021	Elliptic orbit and theorem based on it.
	17-JUN-2021	Hyperbolic orbit and its result.
	18-JUN-2021	Parabolic orbit and its theorem.
	19-JUN-2021	Group discussion on different orbits.
	20-JUN-2021	**SUNDAY**
11	21-JUN-2021	Test and revision.
	22-JUN-2021	Velocity in a given circle:to determine orbit.
	23-JUN-2021	Apse,apsidal distances and apsidal angle and theorem.Related examples.
	24-JUN-2021	*Sant Kabir Das Jayanti*
	25-JUN-2021	**Kepler 's law of planetary motion ,newton's law of gravitation.**

	26-JUN-2021	**Eqvivalence of kepler's law for planetary motion and newton's law.Motion under the inverse square law and examples.**
	27-JUN-2021	**SUNDAY**
12	28-JUN-2021	**Motion of a particle in 3-D velocity of a particle along a curve.Motion of particle in terms of cylindrical polar co-ordinates.**
	29-JUN-2021	**Velocity and acceleration of moving axes.To find acceleration when a point is moving along any curve in 3-D.**
	30-JUN-2021	**Sessional**

Name of Assistant Lecturer: Ms.silky

Class :   BBA –I (SEM-II)

Subject: MATHS

Paper: ELEMENTS OF BUSINESS MATHS-II

WEEK	DATE	TOPIC
1	16-APR-2021	Cartesian systems of rectangular coordinates:rectangular axes and origin,coordinates of a point,distance between two points.
	17-APR-2021	Circumcentre with examples.
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Internal division and external division.section formula,midpoint formula with examples.
	20-APR-2021	Centroid of a triangle,incentre of a triangle and find these coordinates of a triangle .
	21-APR-2021	*Ram Navmi*
	22-APR-2021	Straight line:slope of a line passing through two given points.
	23-APR-2021	Parallel and perpendicular lines,collinearity of three points with examples.
	24-APR-2021	Intercepts:equation of a line parallel to X-axis and Y-axis slope-intercept form of a line,one point form,two point form of a line.
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Continued examples.
	27-APR-2021	Intercept form of a line,equation of a line in perpendicular or normal form.equation of a line in symmetric form or parametric form with examples.
	28-APR-2021	General equation of a straight line:reduction of the general equation to the standard form,intercept form,normal form.
	29-APR-2021	Continued examples.
	30-APR-2021	Angle between two lines:condition of parallelism and perpendicularity of lines.
	01-MAY-2021	Point of intersection of two straight lines.perpendicular distance of a point from a line.
	02-MAY-2021	**SUNDAY**
	03-MAY-2021	Arithmetic progressions :general term,finite and infinite sequences.
	04-MAY-2021	Properties of an A.P with examples,representation of terms in A.P.
	05-MAY-2021	Sum of 'n' terms of an A.P. with examples.
	06-MAY-2021	Arithmetic mean:to insert' n' A.M.between two quantities 'a' and 'b',sum of

4		'n' arithmetic means between two numbers.
	07-MAY-2021	Geometric progression:general term with examples.
	08-MAY-2021	Sum of first 'n'terms of G.P. with examples and exercises.
	09-MAY-2021	**SUNDAY**
5	10-MAY-2021	Sum of G.P.upto infinity terms with examples and exercises.
	11-MAY-2021	Geometric mean:definition with examples.product of 'n' G.M.between 'a' and 'b'.
	12-MAY-2021	Application of A.P. and G.P. to business problems.
	13-MAY-2021	Continued examples.
	14-MAY-2021	*Eid*
	15-MAY-2021	Harmonic progression:general term with examples.harmonic mean:to find the H.M.between two quantities 'a' and' b'.
	16-MAY-2021	**SUNDAY**
6	17-MAY-2021	Relation between A.M.,G.M.and H.M.,sigma notation,sum of first n natural numbers,sum of squares of the first n natural numbers,sum of the cubes of first n natural numbers.
	18-MAY-2021	Arithmetico-geometric series:general term ,sum of 'n 'terms of an arithmetic-geometric series,sum of an infinite arithmetic-geometric series.
	19-MAY-2021	Integration:introduction to definite and indefinite integral and some standard elementary integrals.
	20-MAY-2021	Integration by substitution,integration by parts,partial fractions and their uses in integration.
	21-MAY-2021	Definite integral with examples.
	22-MAY-2021	Continued examples.
	23-MAY-2021	**SUNDAY**
7	24-MAY-2021	Application of integration in business and commerce:determination of cost function and average cost function when marginal cost function is given.
	25-MAY-2021	Determination of revenue function and demand function when marginal revenue function is given with examples.
	26-MAY-2021	Consumer's and producer's surplus.The learning curve with examples and exercises.
	27-MAY-2021	Logarithms:definition and some important deductions.
	28-MAY-2021	Important properties of logarithms:product formula,quotient formula.
	29-MAY-2021	Power formula,base changing formula with examples.
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Continued examples and exercises.
	01-JUN-2021	Two systems of logarithms:natural logarithms,common logarithms.
	02-JUN-2021	Rules to find the characteristic and mantissa with examples.
	03-JUN-2021	Tables of logarithms,Anti-logarithms.
	04-JUN-2021	Continued with examples and miscellaneous exercises.
	05-JUN-2021	Revision and tests.
	06-JUN-2021	**SUNDAY**
	07-JUN-2021	Revision and tests.

WEEK	DATE	TOPIC
9	08-JUN-2021	Compound interest:introduction to simple interest ,compound interest.
	09-JUN-2021	Results and formulas for S.I.and C.I. with examples.
	10-JUN-2021	Examples and exercises to find S.I.and C.I. when the rate of interest is different for different years.
	11-JUN-2021	Continued examples and exercises.
	12-JUN-2021	Problems on effective rate of interest with examples.
	13-JUN-2021	**SUNDAY**
10	14-JUN-2021	Continued examples with exercises.
	15-JUN-2021	Problems on depreciation with examples.
	16-JUN-2021	Continued examples with exercises.
	17-JUN-2021	Problems on population with examples.
	18-JUN-2021	Continued examples with exercises.
	19-JUN-2021	To check table values for logarithms and antilogarithms.
	20-JUN-2021	**SUNDAY**
11	21-JUN-2021	Continued examples.
	22-JUN-2021	Continued examples with exercises.
	23-JUN-2021	Revision and tests.
	24-JUN-2021	*Sant Kabir Das Jayanti*
	25-JUN-2021	**Revision and tests.**
	26-JUN-2021	**Continued.**
	27-JUN-2021	**SUNDAY**
12	28-JUN-2021	**Continued.**
	29-JUN-2021	**Continued.**
	30-JUN-2021	**Sessional.**

Name of Assistant Lecturer: Ms. SILKY

Class :BCA-I(SEM-2)

Subject: MATHS

Paper:MATHEMATICAL FOUNDATIONS -II

WEEK	DATE	TOPIC
1	16-APR-2021	Introduction to logical statemens.
	17-APR-2021	Symbolic notation of statements.Truth tables.
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Simple and compound statements.Truth table for conjunction and disjunction.
	20-APR-2021	Negation:Truth table for negation and negation of compound statements.
	21-APR-2021	*Ram Navmi*
	22-APR-2021	Implications;Conditional statements and Biconditional statements.
	23-APR-2021	Argument:Valid argument,fallacy and truth tables.

	24-APR-2021	Joint Denial.Tautologies and Contradictions.
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Laws of logic:Idempotent laws.Commutative laws,Associative laws.
	27-APR-2021	Distributive laws,Identity Laws,Complement laws,Involution law.
	28-APR-2021	De-Morgan's law.Quantifiers:Universal Quantifier,Existential Quantifier.Negation of statements with Quantifiers.
	29-APR-2021	Principle of Mathematical induction with examples.
	30-APR-2021	Continued examples.
	01-MAY-2021	Groups:Introduction to Binary operations and Composition tables.Some fundamental properties of binary operations.
	02-MAY-2021	**SUNDAY**
4	03-MAY-2021	Algebraic structure,definition of group with examples.
	04-MAY-2021	Continued examples.Semi group,finite and infinite groups ,order of a group.
	05-MAY-2021	Addition Modulo M,Multiplication modulo with examples.
	06-MAY-2021	Order of an elementof a group,General properties of groups.
	07-MAY-2021	Complexes and Sub-groups of a group,Criterian for a complex to be a subgroup.
	08-MAY-2021	Intersection of subgroups with theorems.
	09-MAY-2021	**SUNDAY**
5	10-MAY-2021	Cosets;Right coset,left coset with examples.
	11-MAY-2021	Normal subgroups,Simple groups,Quotient group with examples.
	12-MAY-2021	Homomorphism and isomorphism.kernel of homomorphism.
	13-MAY-2021	Rings:types of rings with examples of rings.
	14-MAY-2021	*Eid*
	15-MAY-2021	Rings without or with zero divisors.Integral domain.
	16-MAY-2021	**SUNDAY**
6	17-MAY-2021	Division ring or a skew field.
	18-MAY-2021	Field with examples.theorems and laws of fields.
	19-MAY-2021	Subrings:characteristic of a ring with examples.
	20-MAY-2021	Ideals:definition and examples of ideals.Simple ring.
	21-MAY-2021	Principal ideal :principal ideal ring and principal ideal domain.
	22-MAY-2021	Maximal ideal,Prime ideal with examples.nilpotent and nil ideals.
	23-MAY-2021	**SUNDAY**
7	24-MAY-2021	Quotient rings(factor rings),Ring homomorphisms,kernel of a ring homomorphism.
	25-MAY-2021	Matrices:some definitions and types of matrices.
	26-MAY-2021	Basic operations on matrices:Scalar multiplication,negation of a matrix,addition and difference ofa matrix.
	27-MAY-2021	Multiplication of matrices,positive integral powers of matrices with examples.
	28-MAY-2021	Determinants:determinants of second and third order.

	29-MAY-2021	Minors and Cofactors with examples,sarrus diagram,properties of determinants.
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Matrices (Continued):singular and non singular matrices,transpose of a matrix.
	01-JUN-2021	Inverse of a square matrix with examples.symmetric matrix,skew symmetric matrix with results.
	02-JUN-2021	Hermitian matrix and skew hermitian matrix with examples.
	03-JUN-2021	Rank of a matrix:submatrix of a matrix,elementary operations:row equivalent and column equivalent of a matrix.
	04-JUN-2021	Reduction of a matrix to triangular form,Normal form of a matrix ,Elementary matrices,Rank of the product of two matrices.
	05-JUN-2021	Using elementary operations find inverse of a matrix,To calculate PAQ where PAQ is in normal form.
	06-JUN-2021	**SUNDAY**
9	07-JUN-2021	Application of matrices to solution of system of linear equations:Homogeneous and non- homogeneous linear equations using inverse of a matrix.
	08-JUN-2021	Solutions of system of homogeneous and non- homogeneous using rank of a matrix.
	09-JUN-2021	Continued with examples.
	10-JUN-2021	Continued with examples.
	11-JUN-2021	Characteristic equation of a matrix;characteristics matrix and characteristic polynomial and characteristics equation and characteristics roots or eigen values of a matrix.
	12-JUN-2021	Continued examples.
	13-JUN-2021	**SUNDAY**
10	14-JUN-2021	Characteristics vector or eigen vector or latent vector with examples.
	15-JUN-2021	Continued examples.
	16-JUN-2021	Scalar polynomial and matric polynomial.
	17-JUN-2021	Cayley –Hamilton theorem with examples and verify these equations.
	18-JUN-2021	Some important theorems:theorems for eigen values and eigen vectors for hermitian matrix,triangular matrix,orthogonal matrix.
	19-JUN-2021	Theorems for linearly independent and linearly dependent vectorts.
	20-JUN-2021	**SUNDAY**
11	21-JUN-2021	Diagonalization of a square matrix:definitions and examples.
	22-JUN-2021	Continued examples.
	23-JUN-2021	Continued examples.
	24-JUN-2021	*Sant Kabir Das Jayanti*
	25-JUN-2021	**Revisions and tests.**
	26-JUN-2021	**Continued.**
	27-JUN-2021	**SUNDAY**
12	28-JUN-2021	**Continued.**
	29-JUN-2021	**Continued.**
	30-JUN-2021	**Sessional.**

Weekly Lesson Plan (Even Semester)   **UG**   **(4th Semester)**

Name of the Paper:-COMPUTER-ORIENTED STATISTICAL METHODS   Class: BCA_II

Name of the Teacher : Ms Meenu Kalra

WEEK	DATE	TOPICS
1	April (16-20) , (22-24)	Statistics: Preparing Frequency Distribution Table and Cumulative frequency,
HOIDAY - 21.04.2021 (Ram Navami)		
SUNDAY & Holiday (Mahavir Jayanti) 25.04.2021		
2	April (26 -30)	Measure of Central Tendency, Types: Arithmetic mean, Geometric Mean, Harmonic Mean,
	May (Ist)	Median, Mode.
SUNDAY - 02.05.2021		
3	May (03 - 08)	Measure of Dispersion: Range, Quartile Deviation, Coefficient of mean Deviation, Standard Deviation mean deviation,
SUNDAY - 09.05.2021		
4	May (10-13) (15)	Moments : Moments About mean, Moments about any point,Moment about origin, Moment about mean in terms of moment about anypoint, Moment about any point in terms of Moment about mean
HOLIDAY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)		
SUNDAY - 16.05.2021		
5	May (17-22)	Correlation: Introduction, Types, Properties, Methods ofCorrelation: Karl Pearson's Coefficient of Correlation, Rank Correlation and Concurrent Deviation method, Probable error.

SUNDAY - 23.05.2021	
6	**May (24-29)**	Regression: Introduction, Aim of Regression Analysis, Types of
		Regression Analysis, Lines of Regression, Properties of Regression
		Coefficient and Regression Lines, Comparison with Correlation.
SUNDAY - 30.05.2021	
7	**May (31)** **June (1 - 5)**	
		Curve Fitting: Straight Line, Parabolic curve, Geometric Curve and
		Exponential Curve
		Baye's Theorem in Decision Making, Forecasting Techniques
		First & Second Assignment
SUNDAY - 06.06.2021	
8	**June (7-12)**	
		Types: Binomial, Poisson, Normal Distribution, Mean and Variance of
		Binomial, Poisson, and Normal Distribution
SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021	
9	**June (14 -19)**	
		Sample introduction, Sampling: Meaning, methods of Sampling,
		Statistical Inference: Test of Hypothesis, Types of hypothesis,
		Procedure of hypothesis Testing, Type I and Type II error, OneTailed
		and two tailed Test,
SUNDAY - 20.06.2021	
10	**June (21-23) (25 - 26)**	Types of test of Significance: Test of significance
		for Attribute-Test of No. of success and test of proportion of success,
		Test of significance for large samples - Test of significance forsingle
		mean and Difference of mean
HOLIDAY - 24.06.2021 (Sant Kabir Jayanti)	
SUNDAY - 27.06.2021	
11	**June (28-30)** **July (1-3)**	
		Test of significance for small samples
		(t-test) – test the significance between the mean of a randomsample,
		between the mean of two independent samples

SUNDAY - 04.07.2021		
12	**July (5 - 10)**	
		Revision & Test
SUNDAY - 11 .07.2021		
13	**July (12)**	

Name of Assistant Lecturer: Ms. Meenu Kalra

Class :   B.Com.-I(Semester-2)

Subject: Mathematics

Paper: Business Mathematics

WEEK	DATE	TOPIC
1	16-APR-2021	Linear Equations in two variables
	17-APR-2021	Questions
	18-APR-2021	**SUNDAY**
2	19-APR-2021	Questions
	20-APR-2021	Continue
	21-APR-2021	*Ram Navmi*
	22-APR-2021	Problem Discussion
	23-APR-2021	Revision
	24-APR-2021	Class Test
	25-APR-2021	**SUNDAY**
3	26-APR-2021	Liner Programming
	27-APR-2021	Continue
	28-APR-2021	Continue
	29-APR-2021	Continue
	30-APR-2021	Continue
	01-MAY-2021	Student Problembs
	02-MAY-2021	**SUNDAY**
	03-MAY-2021	Probelm Discussion
	04-MAY-2021	Revision
	05-MAY-2021	Class Test
	06-MAY-2021	Data Interpretation

4	07-MAY-2021	Continue
	08-MAY-2021	Continue
	09-MAY-2021	**SUNDAY**
5	10-MAY-2021	Continue
	11-MAY-2021	Problem Discussion
	12-MAY-2021	Class Test
	13-MAY-2021	Data-inrodution Classification And Tabulation
	14-MAY-2021	*Eid*
	15-MAY-2021	Continue
	16-MAY-2021	**SUNDAY**
6	17-MAY-2021	Continue
	18-MAY-2021	Continue
	19-MAY-2021	Continue
	20-MAY-2021	Continue
	21-MAY-2021	Continue
	22-MAY-2021	Assignment - 1
	23-MAY-2021	**SUNDAY**
7	24-MAY-2021	Data – Inrodution,Classification and Tabulation
	25-MAY-2021	Continue
	26-MAY-2021	Continue
	27-MAY-2021	Continue
	28-MAY-2021	Problem Discussion
	29-MAY-2021	Class Test
	30-MAY-2021	**SUNDAY**
8	31-MAY-2021	Diagrammatic Respresentation of Data
	01-JUN-2021	Continue
	02-JUN-2021	Continue
	03-JUN-2021	Continue
	04-JUN-2021	Continue
	05-JUN-2021	Continue
	06-JUN-2021	**SUNDAY**
9	07-JUN-2021	Problem Discussion
	08-JUN-2021	Class Test
	09-JUN-2021	Graphical Respresentation of Data
	10-JUN-2021	Continue
	11-JUN-2021	Continue
	12-JUN-2021	Assignment -2
	13-JUN-2021	**SUNDAY**

10	14-JUN-2021	Revision	
	15-JUN-2021	Class Test	
	16-JUN-2021	Permutations and Combinations	
	17-JUN-2021	Continue	
	18-JUN-2021	Continue	
	19-JUN-2021	Continue	
	20-JUN-2021	**SUNDAY**	
11	21-JUN-2021	Continue	
	22-JUN-2021	Problem Discussion	
	23-JUN-2021	Permutations and Combinations	
	24-JUN-2021	***Sant Kabir Das Jayanti***	
	25-JUN-2021	Continue	
	26-JUN-2021	**Conditional Test**	
	27-JUN-2021	**SUNDAY**	
12	28-JUN-2021	**Binomial Theorem**	
	29-JUN-2021	Continue	
	30-JUN-2021	Continue	