



SRI VENKATESWARA COLLEGE

2017-18

ODD SEMESTER

TEACHING PLANS

Department of Mathematics

Sri Venkateswara College

Odd Semester Teaching Plan (July-November 2017)

Dr.Ranjna Mehta

Month		Topics	Course	PaperCode/ Name
JULY	Theory	Hyperbolic functions, Higher order derivatives, Applications of Leibnitz rule.	B.Sc.(H)Maths Sem-I A	C1-Calculus
	Practicals	Introduction to Mathematica and Calculus Practical. (1) Plotting of graphs of function of type (greatest integer function)... (even and odd positive integer), (even and odd positive integer), (a positive integer) , , , Discuss the effect of some parameters on the graph and to solve different Questions.	B.Sc.(H)Maths Sem-I A	C1-Calculus
	Tutorials	To Discuss the Doubt of students and to solve various exercise of Polar representation of complex numbers, nth roots of unity, De Moivre's theorem for rational indices and its applications.	B.Sc.(H)Maths Sem-I B	C2-Algebra
AUGUST	Theory:	The first derivative test, concavity and inflection points, Second derivative test, Curve sketching using first and second derivative test, limits at infinity, graphs with asymptotes. Graphs with asymptotes, L'Hopital's rule, applications in business, economics and life sciences. Parametric representation of curves and tracing of parametric curves, Polar coordinates and tracing of curves in polar coordinates.	B.Sc.(H)Maths Sem-I A	C1-Calculus

	Practicals	(2). Plotting the graphs of polynomial of degree 4 and 5, the derivative graph, the second derivative graph and comparing them. (3). Sketching parametric curves. (4). Tracing of conics in Cartesian coordinates. Giving Assignment related to above topics.	B.Sc(H)Maths Sem-I A	C1-Calculus
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Equivalence relations, Functions, Composition of functions, Invertible functions, One to one correspondence and cardinality of a set, Well-ordering property of positive integers, Division algorithm, Divisibility and Euclidean algorithm, Congruence relation between integers.	B.Sc.(H)Maths Sem-I B	C2-Algebra
SEPTEMBER	Theory:	Reduction formulae, derivations and illustrations of reduction formulae of the type, Volumes by slicing; disks and washers methods, Volumes by cylindrical shells. Arc length, arc length of parametric curves, Area of surface of revolution, Techniques of sketching conics, reflection properties of conics.	B.Sc.(H)Maths Sem-I A	C1-Calculus

Mrs. ShakuntlaWadhwa

Month		Topics	Course	Paper Code/Name
JULY	Theory	Systems of linear equations, row reduction and echelon forms	B.Sc(H)Maths Sem-I A	C2: Algebra
	Tutorials	To discuss the doubts of students and to solve various exercises of Systems of linear equations, row reduction and echelon forms	B.Sc(H)Maths Sem-I A	C2: Algebra
	Practicals	Introduction to Mathematica and Calculus Practical. (1) Plotting of graphs of function of type (greatest integer function)... (even and odd positive integer), (even and odd positive integer), (a positive integer) , Discuss the effect of and on the graph and to solve different Questions.	B.Sc(H)Maths Sem-I A	C1: Calculus
	Practicals	Practical No.1-To Draw surfaces and find level curves at the given heights.	B.Sc(H) Maths Sem-III A	C7- Multivariate Calculus
AUGUST	Theory:	Vector equations, the matrix equation $Ax = b$, solution sets of linear systems, applications of linear systems, linear independence. Introduction to linear transformations, Matrix of a linear transformation, inverse of a matrix, characterizations of invertible matrices.	B.Sc.(H)Maths Sem-I A	C2: Algebra

	Tutorials:	To discuss the doubts of students and to solve various exercises of Vector equations, the matrix equation $Ax = b$, solution sets of linear systems, applications of linear systems, linear independence. Introduction to linear transformations, Matrix of a linear transformation, inverse of a matrix, characterizations of invertible matrices.	B.Sc.(H)Maths Sem-I A	C2: Algebra
	Practicals	(2). Plotting the graphs of polynomial of degree 4 and 5, the derivative graph, the second derivative graph and comparing them. (3). Sketching parametric curves. (4). Tracing of conics in Cartesian coordinates. Giving Assignment related to above topics.	B.Sc.(H)Maths Sem-I	C1: Calculus
	Practicals	Practical No.2-To draws the surfaces and discuss whether limit exists or not as approaches to the given points. Find the limit, if it exists: Practical No.3-To Draw the tangent plane to the following surfaces at the given point.	B.Sc.(H) Maths Sem-III A	C7- Multivariate Calculus
SEPTEMBER	Theory:	Subspaces of R_n , dimension of subspaces of R_n and rank of a matrix, Eigen values, Eigen vectors, and Characteristic Equation of a matrix. Equivalence relations, Functions, Composition of functions, Invertible functions, One to one correspondence and cardinality of a set, Well-ordering property of positive integers, Division algorithm, Divisibility and Euclidean algorithm, Congruence relation between integers.	B.Sc.(H)Maths Sem-I	C2: Algebra
	Tutorials:	To discuss various exercises of Subspaces of R_n , dimension of subspaces of R_n and rank of a matrix, Eigen values, Eigen vectors, and Characteristic Equation of a matrix, Equivalence relations, Functions, Composition of functions, Invertible functions, One to one correspondence and cardinality of a set, Well-ordering property of positive integers, Division algorithm, Divisibility and Euclidean algorithm, Congruence relation between integers.	B.Sc.(H)Maths Sem-I A	C2: Algebra

	Assignment	Plan to give an assignment related to the syllabus		
	Practicals	(5). Obtaining surface of revolution of curves. (6). Sketching ellipsoid, hyperboloid of one and two sheets, elliptic cone, elliptic paraboloid, hyperbolic paraboloid using Cartesian co-ordinates. (7). To find numbers between two real numbers and plotting of finite and infinite subset of \mathbb{R} and to solve different Questions, To take LabTest Giving Assignment related to above Topics	B.Sc.(H) Maths Sem-IA	C1: Calculus
	Practicals	Practical No.4- Use an incremental approximation to estimate the functions at the given point and compare it with calculated value. Practical No. 5-To find critical points and identify relative maxima, relative minima or saddle points to surfaces, if it exist	B.Sc.(H) Maths Sem-III A	C7- Multivariate Calculus
OCTOBER	Theory:	Principles of Mathematical Induction, statement of Fundamental Theorem of Arithmetic, Polar representation of complex numbers, n th roots of unity, De Moivre's theorem for rational indices and its applications.	B.Sc.(H) Maths Sem-IA	C2: Algebra
	Tutorials:	To discuss the doubts of the students and solve various exercise on Principles of Mathematical Induction, statement of Fundamental Theorem of Arithmetic, Polar representation of complex numbers, n th roots of unity, De Moivre's theorem for rational indices and its applications	B.Sc(H) Maths Sem-I A	C2: Algebra
	Test	To conduct internal test and practical exam.		

	Practicals	(8). Matrix operations (addition, multiplication, inverse, transpose, determinant, rank, eigenvectors, eigenvalues, Characteristic equation and verification of Cayley Hamilton equation, system of linear equations) (9) Graph of Hyperbolic functions. (10).Computation of limit, differentiation and integration of vector functions R and to solve different Questions, To take internal Test.	B.Sc.(H)Maths Sem-I	C1: Calculus
	Practicals	Practical No.6-To draw the regions D and check whether these regions are of Type I or Type II: Practical No .13- To discuss uniform continuity of the functions: Practical No .14-Verification of Maximum –Minimum theorem, boundedness theorem & intermediate value theorem for various functions and the failure of the conclusion in case of any of the hypothesis is weakened.	B.Sc.(H) Maths Sem-III A	C7- Multivariate Calculus
NOVEMBER	Theory:	Revision of the entire syllabus and discussion of previous year question papers.	B.Sc.(H)Maths Sem-I	C2:Algebra
	Tutorials:	To discuss the doubts of students.	B.Sc.(H)Maths Sem-I A	C2: Algebra
	Practicals	(11).Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar form. (12). To take internal LabTest (13).To revised All Practicals.	B.Sc.(H)Maths Sem-I	C1: Calculus
	Practicals	To revised All Practicals.	B.Sc.(H) Maths Sem-III A	C7- Multivariate Calculus

Dr. R. K. Budhreja

Month		Topics	Course	Paper Code/Name
JULY	Theory	Limits of Functions	B.Sc.(Hons) MathsSem III B	C5 : Theory of Real Functions
	Practicals	(1).To find critical points and identify relative maxima, relative minima or saddle points to the given surfaces, if it exist. Software: Mathematica	B.Sc.(Hons) MathsSem III B	C7: Multivariate Calculus
	Tutorials	Questions based on Limits of Functions	B.Sc.(Hons) MathsSem III B	C5 : Theory of Real Functions
AUGUST	Theory:	Limits of Functions	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	Practicals:	(2).To draw the tangent plane to the given surfaces at the given point, (3).Use an incremental approximation to estimate the following functions at the given point and compare it with calculated value.	B.Sc.(Hons) Maths Sem III B	C7: Multivariate Calculus

	Tutorials:	Questions based on Limits of Functions	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
SEPTEMBER	Theory:	Continuous Functions, Uniform Continuity	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	Practicals:	(4). Verification of Maximum–Minimum theorem, boundedness theorem & intermediate value theorem for various functions and the failure of the conclusion in case of any of the hypothesis is weakened.	B.Sc.(Hons) Maths Sem III B	C7: Multivariate Calculus
	Tutorials:	Questions based on Continuous Functions & Uniform Continuity	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	<u>Assignment :</u>	Based on Limits, Continuity & Uniform Continuity of Functions	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
OCTOBER	Theory:	Differentiability of Functions, Mean Value Theorems, Taylor's Theorems, Maxima & Minima	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	Practicals:	(5). Taylor's series - visualization by creating graphs: Verification of simple inequalities, Taylor's Polynomials – approximated up to certain degrees, Convergence of Taylor's series.	B.Sc.(Hons) Maths Sem III B	C7: Multivariate Calculus
	Tutorials:	Questions based on Differentiability of Functions, Mean Value Theorems, Taylor's Theorems, Maxima & Minima	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	<u>Test</u>	Based on whatever have been taught at that point of time. (Oct. 15, 2017)	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions

NOVEMBER	Theory:	Taylor's Series & Maclaurin's Series Expansions	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions
	Practicals:	(6).Non-existence of Taylor series for certain functions, Convexity of the curves. To revise all the practicals.	B.Sc.(Hons) Maths Sem III B	C7: Multivariate Calculus
	Tutorials:	Questions based on Taylor's Series & Maclaurin's Series Expansions	B.Sc.(Hons) Maths Sem III B	C5 : Theory of Real Functions

Dr.Mainak Mukherjee

Month		Topics	Course	Paper
JULY	Theory	Metric spaces: definition and examples. Sequences in metric spaces.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to Metric spaces: definition and examples. Sequences in metric spaces.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Theory	Rectangular coordinates in 3-space; spheres,	BA(P) Sem-III	Paper III : Analytic Geometry and Applied Algebra
	Practicals	Practical No.7- f be any function and be n any number. For given N and ϵ , find a δ such that for all satisfying, the inequality holds.	B.Sc.(H) Maths Sem-III A	C 7- Multivariate Calculus
		Introduction to Latex and HTML And discuss related software and Practical.	B.Sc.(H) Maths Sem-III B	SEC-I LATEX AND HTML
AUGUST	Theory:	Cauchy sequences, Complete Metric Spaces, Open and closed balls, neighbourhood, open set, interior of a set, Limit point of a set, closed set, diameter of a set, Cantor's Theorem.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces

	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Cauchy sequences, Complete Metric Spaces, Open and closed balls, neighbourhood, open set, interior of a set, Limit point of a set, closed set, diameter of a set, Cantor's Theorem.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Theory	Rectangular coordinates in 3-space; cylindrical surfaces cones. Vectors viewed geometrically	BA(P) Sem-III	Paper III : Analytic Geometry and Applied Algebra
	Practicals:	Practical No.8-To Discuss the limit of the functions when n tends to zero. Practical No.9- To discuss the limit of the following functions when tends n to infinity. *To take a lab test related to above Practical.	B.Sc.(H) Maths Sem-III A	C 7- Multivariate Calculus
	Practicals:	Practicals related to Elements of LATEX , Hands-on-training of LATEX.	B.Sc.(H) Maths Sem-III B	SEC-I LATEX AND HTML
September	Theory:	Subspaces, dense sets, separable spaces, Continuous mappings, sequential criterion and other characterizations of continuity, Uniform continuity.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Subspaces, dense sets, separable spaces, Continuous mappings, sequential criterion and other characterizations of continuity, Uniform continuity.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Theory:	Vectors in coordinate system, vectors determine by length and angle, dot product.	BA(P) Sem-III	Paper III : Analytic Geometry and Applied Algebra
	Assignment	To be given assignment related to syllabus. Last date of submission will be last week of September.		

	Practicals:	Practical No.10-. Discuss the continuity of the functions. Practical No.11- To Illustrate the geometric meaning of Rolle's theorem of the functions on the given interval. Practical No .12-To Illustrate the geometric meaning of Lagrange's mean value theorem of the functions on the given interval.	B.Sc.(H) Maths Sem-III A	C 7- Multivariate Calculus
	Practicals:	Practicals related to graphics in LATEX, PSTricks.	B.Sc.(H) Maths Sem-III B	SEC-I LATEX AND HTML
OCTOBER	Theory:	Homeomorphism, Contraction mappings, Banach Fixed point Theorem. Connectedness, connected subsets of \mathbb{R} , connectedness and continuous mappings. Compactness.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Homeomorphism, Contraction mappings, Banach Fixed point Theorem. Connectedness, connected subsets of \mathbb{R} , connectedness and continuous mappings. Compactness.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Theory:	Cross product and their geometrical properties. Parametric equations of lines in plane.	BA(P) Sem-III	Paper III : Analytic Geometry and Applied Algebra
	Test	To take Internal Test of paper C11: Metric spaces and Paper III : Analytic Geometry and Applied Algebra from the material covered on first week of October.		

	Practicals:	<p>Practical No .13- To discuss uniform continuity of the functions:</p> <p>Practical No .14-Verification of Maximum –Minimum theorem, boundedness theorem & intermediate value theorem for various functions and the failure of the conclusion in case of any of the hypothesis is weakened.</p> <p>Practical No .15-To locating points of relative & absolute extremum for different functions.</p> <p>Practical No .16- Relation of monotonicity & derivatives along with verification of first derivative test.</p>	B.Sc.(H) Maths Sem-III A	C 7- Multivariate Calculus
	Practicals:	Practicals related to Beamer presentation.	B.Sc.(H) Maths Sem-III B	SEC-I LATEX AND HTML
	Test	To take internal Lab Test.		
NOVEMBER	Theory:	Compactness and boundedness, continuous functions on compact spaces and to revise whole syllabus, to discuss last previous year questions papers.	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to compactness and boundedness, continuous functions on compact Spaces and to revise whole	B.Sc.(H) Maths Sem-V	C 11- Metric Spaces
	Theory:	Parametric equations of planes in 3-space and to revise whole syllabus, to discuss last previous year questions papers.	BA(P) Sem-III	Paper III : Analytic Geometry and Applied Algebra
	Practicals:	<p>Practical No .16- Relation of monotonicity & derivatives along with verification of first derivative test.</p> <p>Practical No .17- Relation of</p>	B.Sc.(H) Maths Sem-III A	C 7- Multivariate Calculus
	Practicals:	Practicals related to complete Latex and revise all practicals	B.Sc.(H) Maths Sem-III B	SEC-I LATEX AND HTML

Dr.Swarn Singh

Month		Topics	Course	Paper Code/Name
JULY	Theory:	To introduce the concepts of Algorithms, Convergence, Bisection Method and various problems related to these and to discuss various theorems related to convergence of the method	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		Latin Squares, Table for a finite group as a Latin Square	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
	Practicals:	Basic concepts of Mathematica and Practical (i) of the list given in the syllabus: To calculate sum of series.	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Latin Squares	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra

		To discuss the doubt of students and various exercise questions and examples related to First Order Ordinary Differential Equations	B.Sc.(Various courses) Sem V	GE 3- Differential Equations
AUGUST	Theory:	False position method, Fixed point iteration method, Newton's method, Secant method, LU decomposition, Gauss- Jacobi method and various problems related to these and to discuss various theorems related to convergence of these methods.	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		Latin squares as in Design of experiments, Mathematical models for Matching jobs, Spelling Checker	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
	Practicals:	Practicals (ii) to find the absolute value of an integer, (iii) to enter 100 integers into an array and sort them in ascending order and (iv) Bisection method, Newton Raphson Method, Secant method, Regula Falsi Method	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Matching jobs, Spelling Checker	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
		To discuss the doubt of students and various exercise questions and examples related to Second Order Ordinary Differential Equations	B.Sc.(Various courses) Sem V	GE 3- Differential Equations
SEPTEMBER	Theory:	Gauss-Seidel method, SOR iterative method and various problems related to these and to discuss various theorems related to convergence of these methods.	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		Network Reliability, Street surveillance	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
	Practicals:	Practicals (v) LU decomposition method and (vi) Gauss-Jacobi method	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods

	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Network Reliability, Street surveillance	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
		To discuss the doubt of students and various exercise questions and examples related to Existence and Uniqueness Theorem of Differential Equations	B.Sc.(Various courses) Sem V	GE 3- Differential Equations
	<u>Assignment</u>	Assignment to be given related to syllabus.	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		Assignment to be given related to syllabus	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
OCTOBER	Theory	Lagrange and Newton interpolation: linear and higher order, finite difference operators, Numerical differentiation: forward difference, backward difference and central difference	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		Scheduling Meetings, Interval Graph Modelling, Influence Model	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
	Practicals:	Practicals (vii) SOR method, Gauss Siedel method and (viii) Lagrange Interpolation, Newton Interpolation	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Scheduling Meetings, Interval Graph Modelling, Influence Model	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
		To discuss the doubt of students and various exercise questions and examples related to Power Series Method	B.Sc.(Various courses) Sem V	GE 3- Differential Equations
	<u>Mid Term Test</u>	To take internal Test based on the syllabus covered.	B.Sc.(H)Maths Sem V	DSE-1(i) Numerical Methods
		To take internal Test based on the syllabus covered.	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra

		To take internal Lab Test based on the syllabus covered.	B.Sc.(H.)Maths Sem V	DSE-1(i) Numerical Methods
NOVEMBER	Theory:	Integration: trapezoidal rule, Simson's rule, Euler's method and to revise whole syllabus. To discuss previous year questions papers some of which are available on my Blog https://numericalmaths.wordpress.com/	B.Sc.(H.)Maths Sem V	DSE-1(i) Numerical Methods
		Pitcher Pouring Puzzle and to revise the syllabus. To discuss previous year question papers.	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
	Practicals:	Practical (ix):Simpson's rule and revise all practicals	B.Sc.(H.)Maths Sem V	DSE-1 Numerical Methods
	Tutorials:	To discuss the doubt of students and various exercise questions and examples related to Pitcher Pouring Puzzle and related to previous year question papers.	B.A.(Prog.) Sem III	PaperIII:Analytic Geometry and Applied Algebra
		To discuss the doubt of students and various exercise questions and examples related to Partial Differential Equations	B.Sc.(Various courses) Sem V	GE 3- Differential Equations

Ms. Deepti Jain

Month		Topics	Course	Paper Code/ Name
JULY	Theory	Definition and examples of ordered sets, Chains and antichains, Order-isomorphism, The Covering Relation, Hasse Diagram, The dual of an ordered set and The Duality Principle, Top and Bottom, Maximal and minimal elements.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Tutorial	Exercises and doubts based on Hasse diagram and Order-isomorphism, Verification or order-preserving, order-embedding and order-isomorphisms.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Theory	$\epsilon - \delta$ definition of limit of a function, One-Sided limit.	GE-I I Semester	Calculus
	Tutorial	Practice on verifying the limit of a function at a point for various functions.	GE-I I Semester	Calculus
	Practical	Introduction to Mathematica. (1). Plotting of graphs of functions like greatest integer function, even and odd positive integer function, a positive integer etc. Discuss the effect of and on the graph and to solve different questions.	B.Sc.(H) Mathematics III Semester	C1 Calculus

	Practical	Introduction to MikTeX and Texmaker.	B.Sc(H) Mathematics III Semester	SEC – I LaTeX and HTML
AUGUST	Theory	Sums of ordered sets, Product of ordered sets, Order-preserving maps, Order-embedding map and order-isomorphism maps, Lattices as ordered sets, Lattices as algebraic structures, The Connecting Lemma, Sublattices, Product of lattices, Lattice homomorphism, Complete Lattices, Distributive and Modular lattices, The M3- N5 Theorem.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Tutorial	Exercises based on join and meet in an ordered set, Examples of lattices and complete lattices, relationship between order-isomorphism and lattice-isomorphism, Construction of ordered sets and lattices satisfying given conditions.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Theory	Limit at infinity, Infinite Limits, Horizontal Asymptotes, Vertical Asymptotes	GE-I I Semester	Calculus
	Tutorial	Exercises and doubts based on infinite limits, limits at infinity and asymptotes.	GE-I I Semester	Calculus
	Practical	(2). Plotting graphs of polynomials of degree 4 and 5, the derivative graph, the second derivative graph and their comparison. (3). Sketching parametric curves. (4). Tracing of conics in Cartesian coordinates. Assignments related to the above topics.	B.Sc.(H) Mathematics III Semester	C1 Calculus
	Practical	Typesetting a simple document, Adding basic information to a document, environments, footnotes and sectioning.	B.Sc.(H) Mathematics III Semester	SEC-I LaTeX and HTML
SEPTEMBER	Theory	Boolean Algebras, Boolean Polynomials, minimal forms of Boolean polynomials, Quinn-McCluskey method, Karnaugh diagrams, Switching Circuits and applications of switching circuits.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Tutorial	Exercises and doubts based on Boolean polynomials and switching circuits.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Assignment	Question from the topics including ordered sets, Lattices and Boolean Algebras.		
	Theory	Linearization, Differential of a function, Concavity, Points of Inflexion.	GE-I I Semester	Calculus

	Tutorial	Exercises based on concavity and points of inflexion.	GE-I I Semester	Calculus
	Assignment	Questions from the topics: Limit of a function at a point, infinite limits, finding asymptotes and points of inflexion of a given curve.		
	Practical	(5). Obtaining surface of revolution of curves. (6). Sketching ellipsoid, hyperboloid of one and two sheets, elliptic cone, elliptic paraboloid, hyperbolic paraboloid using Cartesian co-ordinates. (7). To find numbers between two real numbers and plotting of finite and infinite subset of \mathbb{R} and to solve different questions. Lab Test. Assignments related to above topics	B.Sc.(H) Mathmatics III Semester	C1 Calculus
	Practical	Mathematical typesetting, fractions, roots, arrays, delimiters, multiline formulas, spacing and changing style in math mode.	B.Sc.(H) Mathematics III Semester	SEC-I LaTeX and HTML
OCTOBER	Theory	Definition, examples and basic properties of graphs, pseudographs, Complete graphs, Bipartite graphs, Isomorphism of graphs, Paths and circuits, Eulerian circuits, Hamiltonian cycles, The adjacency matrix.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Tutorial	Exercises based on isomorphism of graphs, paths and circuits and adjacency matrix.		
	<u>Mid Term Test</u>	Ordered Sets, Lattices, Boolean Algebras, Graphs.		
	Theory	Curve sketching, Indeterminate forms and L'Hopital rule.	GE-I I Semester	Calculus
	Tutorial	Plenty of exercises on Curve sketching and finding limit for indeterminate forms using L'Hopital rule.	GE-I I Semester	Calculus
	<u>Mid Term Test</u>	Questions based on the topics: Limits, Curve sketching and Indeterminate forms.		
	Practical	(8). Matrix operations (addition, multiplication, inverse, transpose, determinant, rank, eigenvectors, eigenvalues, Characteristic equation and verification of Cayley Hamilton equation, system of linear equations) (9). Graphs of Hyperbolic functions. (10). Computation of limit, differentiation and integration of	B.Sc.(H) Mathmatics III Semester	C1 Calculus

		vector functions on R. Mid-term Test based on the topics done.		
	Practical	Graphics in LaTeX, PS Tricks, plotting of functions. Mid-term Test based on the topics covered.	B.Sc.(H) Mathematics III Semester	SEC-I LaTeX and HTML
NOVEMBER	Theory	Weighted Graphs, Travelling salesman's Problem, Shortest path, Dijkstra's algorithm, Floyd-Warshall algorithm.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Tutorial	Exercises based on various algorithms mentioned above to find the shortest path in a given weighted graph.	B.Sc.(H) Mathematics V Semester	DSE-II(ii) Discrete Mathematics
	Theory	Volume by slicing, Volume of solids of revolution by the disk method and by washer method.	GE-I I Semester	Calculus
	Tutorial	Exercises based on finding the volume of a solid by various methods mentioned above.	GE-I I Semester	Calculus
	Practical	(11). Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar forms. (12). Revision of all topics. (13). Internal Practical Examination.	B.Sc.(H) Mathematics III Semester	C1 Calculus
	Practical	Beamer presentation. Revision of all topics. Practical Examination.	B.Sc.(H) Mathematics III Semester	SEC-I LaTeX and HTML

Mr. NinianNauneetKujur

Month		Topics	Course	Paper Code/Name
July	Theory	Limits of functions (epsilon-delta approach), sequential criterion for limits,	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Theory	Techniques for sketching parabola,	BA(P) Sem III	Analytic Geometry and Applied Algebra
	Practicals	NA		
	Tutorials	Exercise questions related to the concept of limits.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
August	Theory	divergence criteria Limit theorems, one sided limits. Infinite limits & limits at infinity, Continuous functions, sequential criterion for continuity & discontinuity. Algebra of continuous functions, Continuous functions on an interval, intermediate value theorem	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Theory	First order ordinary differential equations: Basic concepts and ideas, Exact differential equations, related problems	BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations

	Theory	Techniques for sketching ellipse and hyperbola.	BA(P) Sem III	Analytic Geometry and Applied Algebra
	Practicals	Introduction to TeX and LaTeX, typesetting a simple document, adding basic information, environments, footnotes, sectioning and displayed material	Bsc(H) Mathematics -Sem III	SEC-1 LaTeX and HTML
	Practicals	Plotting of real valued functions and their derivatives, verifying the Roll's and Lagrange's Theorem	Bsc(H) Mathematics -Sem I	Calculus (C1)
	Tutorials	Exercise questions related to limits and continuity	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Tutorials	Clearing doubts on the portion covered and discuss questions of relevant exercise.	BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations
September	Theory	location of roots theorem, preservation of intervals theorem, Uniform continuity, non-uniform continuity criteria, uniform continuity theorem. Differentiability of a function at a point & in an interval, Carathéodory's theorem, algebra of differentiable functions. Differentiability of a function at a point & in an interval, Carathéodory's theorem, algebra of differentiable functions.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Assignment	On Basics of limits		
	Theory	Integrating factors, Bernoulli equations, Orthogonal trajectories of curves, Existence and uniqueness of solutions.	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations
	Theory	Reflection properties of parabola, ellipse and hyperbola and their applications to signals,	BA(P) Sem III	Analytic Geometry and Applied Algebra

	Practicals:	Assents and symbols, Mathematical typesetting, Beamer presentation, Introduction to HTML, creating simple web pages	Bsc(H) Mathematics -Sem III	SEC-1 LaTeX and HTML
	Practicals	To find numbers between two real numbers and plotting of finite and infinite subsets of R, Matrix operations	Bsc(H) Mathematics -Sem I	Calculus (C1)
	Tutorials	Questions related to Uniform continuity and differentiability.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Tutorials	Clearing doubts on the portion covered and discuss questions of relevant exercise.	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons)	GE-3 Differential Equations
October	Theory:	Relative extrema, interior extremum theorem. Rolle's theorem, Mean value theorem, intermediate value property of derivatives - Darboux's theorem. Applications of mean value theorem to inequalities & approximation of polynomials Taylor's theorem to inequalities. Cauchy's mean value theorem. Taylor's theorem with Lagrange's form of remainder, Taylor's theorem with Cauchy's form of remainder, application of Taylor's theorem to convex functions, relative extrema.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Test:	Portion upto Mean Value Therems.		
	Theory	Second order differential equations: Homogenous linear equations of second order, Second order homogenous equations with constant coefficients; related problems.	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations
	Theory	Classification of quadaratic equation representing lines,parabola, ellipse and hyperbola Based on portion covered	BA(P) Sem III	Analytic Geometry and Applied Algebra
	Practicals	Graphics in LaTeX, use of PS Tricks, Design of web pages	Bsc(H) Mathematics -Sem III	SEC-1 LaTeX and HTML

	Practicals	Computation of limit, differentiation and integration of vector functions	Bsc(H) Mathematics -Sem I	Calculus (C1)
	Tutorials	Questions based on mean value theorems, Taylor's and Lagrange's theorem	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Tutorials	Clearing doubts on the portion covered and discuss questions of relevant exercise.	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons)	GE-3 Differential Equations
November	Theory	Taylor's series & Maclaurin's series expansions of exponential & trigonometric functions.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Theory	Differential operator, Euler-Cauchy equation	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations
	Theory	Revision	BA(P) Sem III	Analytic Geometry and Applied Algebra
	Practicals	Plotting of functions in LaTeX and practice problems	Bsc(H) Mathematics -Sem III	SEC-1 LaTeX and HTML
	Practicals	Complex numbers and their representations, operations on complex numbers, graphical representation of polar form	Bsc(H) Mathematics -Sem I	Calculus (C1)
	Tutorials	Questions based on Cauchy form of remainder, expansions of various functions.	Bsc(H) Mathematics -Sem III	Theory of real functions (C5)
	Tutorials	Clearing doubts and discuss questions.	Sem III BA(Hons) and Bsc(Hons) Other than BSc(Hons) Mathematics	GE-3 Differential Equations

Mr. Amit Kumar

Month		Topics	Course	Paper Code/Name
JULY	Theory	Hyperbolic function The first derivative test, concavity and inflection points, Second derivative test	B.Sc.(H) MathsSem I B	C1: Calculus
		Symmetries of a square, Dihedral groups, definition and examples of groups	B.Sc.(H) Maths Sem III B	C6: Algebra
	Practicals	Introduction to Mathematica and Calculus Practical. (1) Plotting of graphs of function of type (greatest integer function) (even and odd positive integer), (even and odd positive integer), (a positive integer) Discuss the effect of parameters on the graph and to solve different Questions.	B.Sc.(H) MathsSem IA and I B	C1: Calculus
	Tutorials	To Discuss the Doubt of students and to solve various exercise of Symmetries of a square, Dihedral groups, definition and examples.	B.Sc.(H) Maths Sem III B	C6: Algebra

AUGUST	Theory:	Curve sketching using first and second derivative test limits at infinity, graphs with asymptotes. Graphs with asymptotes, L'Hopital's rule, Parametric representation of curves and tracing of parametric curves Giving Question related to above topics	B.Sc(H) MathsSem I B	C1: Calculus
		Elementary properties of groups. Subgroups and examples of subgroups, centralizer, normalizer, center of a group, product of two subgroups, Properties of cyclic groups, classification of subgroups of cyclic groups	B.Sc .(H) Maths Sem III B	C6: Algebra
	Practicals:	Plotting of graphs of function of type (greatest integer function)... (even and odd positive integer), (a positive integer) ,Discuss the observation of these function to solve different Questions. Plotting the graphs of polynomial of degree 4 and 5, the derivative graph, the second derivative graph and comparing them.	B.Sc(H) MathsSem I A and I B	C1: Calculus
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Quaternion groups (illustration through matrices), elementary properties of groups. Subgroups and examples of subgroups, centralizer, normalizer, center of a group, product of two subgroups, Properties of cyclic groups, classification of subgroups of cyclic groups test related to above topics.	B.Sc .(H) Maths Sem III B	C6: Algebra
SEPTEMBER	Theory:	Higher order derivatives, Applications of Leibnitz rule. Parametric representation of curves and tracing of parametric curves, Polar coordinates and tracing of curves in polar coordinates, Reduction formulae, derivations and illustrations of reduction formulae of the type.	B.Sc(H) MathsSem I B	C1: Calculus

		Cycle notation for permutations, properties of permutations, even and odd permutations, alternating group, properties of cosets, Lagrange's theorem and consequences including Fermat's Little theorem,	B.Sc.(H) Maths Sem III B	C6: Algebra
	Practicals:	Sketching parametric curves. Tracing of conics in Cartesian coordinates. Giving Assignment related to above topics. 5). Obtaining surface of revolution of curves. (6). Sketching ellipsoid, hyperboloid of one and two sheets, Questions, To take Lab Test. Giving Assignment related to above topics	B.Sc(H) Maths Sem I A and I B	C1: Calculus
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Cycle notation for permutations, properties of permutations, even and odd permutations, alternating group, properties of cosets, Lagrange's theorem and consequences including Fermat's Little theorem, External direct product of a finite number of groups.	B.Sc.(H) Maths Sem III B	C6: Algebra
	<u>Assignment</u>	An assignment will be given in midweek of September based on the syllabus covered in the class.	B.Sc.(H) Maths I Sem and III Sem.	C1 and C6
OCTOBER	Theory:	Volumes by slicing; disks and washers methods, Volumes by cylindrical shells. Arc length, arc length of parametric curves, Area of surface of revolution	B.Sc(H) Maths Sem I B	C1: Calculus
		External direct product of a finite number of groups Normal subgroups, factor groups, Cauchy's theorem for finite abelian groups. Group homomorphism, properties of homomorphism, Cayley's theorem, Properties of isomorphism.	B.Sc.(H) Maths Sem III B	C6: Algebra

	Practicals:	elliptic cone, elliptic paraboloid, hyperbolic paraboloid using Cartesian co-ordinates. Questions, To take Lab Test. Giving Assignment related to above topics	B.Sc(H) MathsSem I A and I B	C1: Calculus
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Normal subgroups, factor groups, Cauchy's theorem for finite abelian groups.Group homomorphism, properties of homomorphism, Cayley's theorem, Properties of Isomorphisms.	B.Sc. (H) Maths Sem III B	C6: Algebra
	Test	Internal Test will be conducted as per the schedule of midterm exams	B.Sc.(H) Maths I Sem and III Sem.	C1 and C6
NOVEMBER	Theory:	Applications in business, economics and life sciences Discuss previous year questions papers.	B.Sc.(H) MathsSem I B	C1: Calculus
		First, Second and Third isomorphism theorems and To Revised whole syllabus And to Discuss previous year questions papers	B.Sc.(H) Maths Sem III B	C6: Algebra
	Practical	(7). To find numbers between two real numbers and plotting of finite and infinite subset of R and to solve different (12). To take internal Lab Test. (13).To revised All Practicals.	B.Sc.(H) MathsSem I A and I B	C1: Calculus
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Properties of isomorphism, First, Second and Third isomorphism theorems and To Revise whole syllabus	B.Sc.(H) Maths Sem III B	C6: Algebra

Ms. Nisha Bohra

Month		Topics	Course	Paper Code/Name
JULY	Theory	Definition of group, Examples of finite and infinite groups like Z_n , $U(n)$, Dihedral groups etc.	B.Sc.(H) Maths SEM-III A	C6 Group Theory-I
		Definition of External direct product(EDP) of finite no. Of subgroups, order of an element in EDP, EDP of cyclic groups.	B.Sc.(H) Maths SEM-V A	C12 Group Theory-II
	Practical	Basic concepts of Mathematica and Practical (i) of the list given in the syllabus: To calculate sum of series.	B.Sc.(H) Maths SEM V	DSE-1(i) Numerical Methods
		(1).To find critical points and identify relative maxima, relative minima or saddle points to the given surfaces, if it exist. Software: Mathematica	B.Sc.(H) Maths SEM-III A	C7 Multivariate Calculus
	Tutorials	To discuss the doubts of students and to do exercise questions based on the topics covered in the class.	B.Sc.(H) Maths SEM-III A	C6, C12
AUGUST	Theory	Concept of subgroups, order of an element, subgroup tests, center of a group, Centralizer of an element, relation between centralizer and center, Examples to check whether the given set forms a subgroup or not. Concept of cyclic groups and their properties.	B.Sc.(H) Maths SEM- III A	C6 Group Theory-I

		Finding no. Of elements of given order and no. of subgroups of given order in EDP of cyclic groups. $U(n)$ as EDP of cyclic groups. Concept of Internal direct product. IDP. Fundamental theorem of finite abelian groups, finding the isomorphism class of given finite abelian group. Expressing given abelian group as IDP of its subgroups.	B.Sc.(H) Maths SEM- V A	C12 Group Theory-II
	Practical:	(ii) to find the absolute value of an integer, (iii) to enter 100 integers into an array and sort them in ascending order and (iv) Bisection method, Newton Raphson Method, Secant method, Regula Falsi Method.	B.Sc.(H) Maths SEM –V	DSE-1(i) Numerical Methods
		(2).To draw the tangent plane to the given surfaces at the given point, (3). Use an incremental approximation to estimate the following functions at the given point and compare it with calculated value	B.Sc.(H) Maths SEM-III B	C7 Multivariate Calculus
	Tutorials	To discuss the doubts of students and to do exercise questions based on the topics covered in the class.	B.Sc.(H) Maths SEM- III A, V A	C6, C12
SEPTEMBER	Theory	Permutation groups, cycle notation for permutations, alternating group, even and odd permutations, cosets and its properties, Lagrange's theorem and its consequences.	B.Sc.(H) Maths SEM-III A	C6 Group Theory_I
		Group actions, stabilizers and kernels, permutation representation associated with a given group action, Applications of group actions: Generalized Cayley's theorem, Index theorem.	B.Sc.(H) Maths SEM- V A	C12 Group Theory-II
	Practical	Gauss-Seidel method, SOR iterative method and various problems related to these and to discuss various theorems related to convergence of these methods.	B.Sc.(H) Maths SEM-V	DSE-1(i) Numerical Methods
		(4).Verification of Maximum–Minimum theorem, boundedness theorem & intermediate value theorem for various functions and the failure of the conclusion in case of any of the hypothesis is weakened.	B.Sc.(H) Maths SEM-III B	C7 Multivariate Calculus
	Tutorials	To discuss the doubts of students and to do exercise questions based on the topics covered in the class.	B.Sc.(H) Maths SEM- III A, V A	C6, C12
	Assignment	Assignment will be given based on the syllabus covered so far in the class in both theory and practical papers	B.Sc.(H) Maths SEM-III A, V A	C6, C12 Practical papers

OCTOBER	Theory	External direct product of a finite number of groups, normal subgroups, factor groups, Cauchy's theorem for finite abelian groups. Group homomorphisms, properties of homomorphisms, Cayley's theorem	B.Sc.(H) Maths SEM-III A	C6 Group Theory-I
		Groups acting on themselves by conjugation, Class equation and consequences, conjugacy in S_n , p-groups, Sylow's theorems and consequences, Cauchy's theorem.	B.Sc.(H) Maths SEM- V A	C12 Group Theory-II
	Practical:	(vii) SOR method, Gauss Siedel method and (viii) Lagrange Interpolation, Newton Interpolation	B.Sc.(H) Maths SEM V	DSE-1(i) Numerical Methods
		(5). Taylor's series - visualization by creating graphs: Verification of simple inequalities, Taylor's Polynomials – approximated up to certain degrees, Convergence of Taylor's series.	B.Sc.(H) Maths SEM-III B	C7 Multivariate Calculus
	Tutorials	To discuss the doubts of students and to do exercise questions based on the topics covered in the class. Answer sheets of mid-term test will be discussed .	B.Sc.(H) Maths SEM- III A, V A	C6, C12
	<u>Mid Term Test</u>	A test will be conducted based on the syllabus for both theory and practical papers	B.Sc.(H) Maths SEM-III A, VA	C6, C12. Practical papers
NOVEMBER	Theory:	Isomorphisms and its properties, First, Second and Third isomorphism theorems. To take doubts from the whole syllabus and discuss previous year question papers also.	B.Sc.(H) Maths SEM-III A	C6, Group Theory-I
		Simplicity of A_n for $n \geq 5$, non-simplicity tests. Exercise based on Sylow's theorem and non-simplicity tests. To take doubts from the whole syllabus and discuss previous year question	B.Sc.(H) Maths SEM- V A	C12 Group Theory-II
	Practicals:	(ix) Simpson's rule and revise all practicals	B.Sc.(H.) Maths SEM V	DSE-1 Numerical Methods
		(6). Non-existence of Taylor series for certain functions, Convexity of the curves, To revise all the practicals.	B.Sc.(H) Maths SEM- III B	C7 Multivariate calculus
	Tutorials	To discuss the doubts of students and to do exercise questions based on the topics covered in the class.	B.Sc.(H) Maths SEM-III A, VA	C6, C12

Mr. Sudhakar Yadav

Month		Topics	Course	Paper Code/Name
JULY	Theory	Functions of several variables, limit and continuity of functions of two variables.	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Practicals	Practical No.1-To Draw surfaces and find level curves at the given heights. Practical No.7- f be any function and n be any number. For given N and ϵ , find a δ such that for all satisfying δ , the inequality holds. <i>Matlab / Mathematica / Maple etc.</i>	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Theory	Automorphism, Inner Automorphism, Automorphism groups and Examples.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to Automorphism, Inner Automorphism, and Automorphism groups.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II

AUGUST	Theory:	Partial differentiation, total differentiability and differentiability, sufficient condition for differentiability. Chain rule for one and two independent parameters, directional derivatives, the gradient, maximal and normal property of the gradient, curl. Extrema of functions of two variables, method of Lagrange multipliers, constrained optimization problems, Definition of vector field, divergence and curl.	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Practicals	Practical No.2-To draw the surfaces and discuss whether limit exists or not as approaches to the given points. Find the limit, if it exists: Practical No.3-To Draw the tangent plane to the following surfaces at the given point. Practical No.8-To Discuss the limit of the functions when n tends to zero. Practical No.9- To discuss the limit of the following functions when tends n to infinity. *To take a lab test related to above Practical. <i>Using Matlab / Mathematica / Maple etc.</i>	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Theory	Automorphism groups of finite and infinite cyclic groups, applications of factor groups to Automorphism groups, Characteristic subgroups, Commutator subgroup and its properties, Properties of external direct products.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to automorphism groups of finite and infinite cyclic groups, applications of factor groups to automorphism groups, Characteristic subgroups, Commutator subgroup and its properties, Properties of external direct products.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Assignment :	To give assignment related to syllabus.		

September	Theory:	Double integration over rectangular region, double integration over nonrectangular, Double integrals in polar co-ordinates, Triple integrals, Triple integral over a parallelepiped and solid regions, Volume by triple integrals, cylindrical and spherical co-ordinates, Change of variables in double integrals and triple .	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Practicals:	<p>Practical No.4- Use an incremental approximation to estimate the functions at the given point and compare it with calculated value.</p> <p>Practical No. 5-To find critical points and identify relative maxima, relative minima or saddle points to surfaces, if it exist</p> <p>Practical No.10-. Discuss the continuity of the functions.</p> <p>Practical No.11- To Illustratethe geometric meaning of Rolle's theorem of the functions on the given interval.</p> <p>Practical No .12-To Illustrate the geometric meaning of Lagrange's mean value theorem of the functions on the given interval.</p>	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Theory	The group of units modulo n as an external direct product, internal direct products, Fundamental Theorem of finite abelian groups, Group actions, stabilizers and kernels, permutation representation associated with a given group action.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to the group of units modulo n as an external direct product, internal direct products, Fundamental Theorem of finite abelian groups, Group actions, stabilizers and kernels, permutation representation associated with a given group action.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II

OCTOBER	Theory:	Line integrals, Applications of line integrals: Mass and Fundamental theorem for line integrals, conservative vector fields, independence of Green's theorem, surface integrals, integrals over parametrically defined surfaces.	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Practicals	<p>Practical No.6-To draw the regions D and check whether these regions are of Type I or Type II:</p> <p>Practical No .13- To discuss uniform continuity of the functions:</p> <p>Practical No .14-Verification of Maximum –Minimum theorem, boundedness theorem & intermediate value theorem for various functions and the failure of the conclusion in case of any of the hypothesis is weakened.</p> <p>Practical No .15-To locating points of relative & absolute extremum for different functions.</p> <p>Practical No .16- Relation of monotonicity & derivatives along with verification of first derivative test.</p>	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Test	To take internal test related to syllabus And internal lab test related to above Practical.		
	Theory	Applications of group actions: Generalized Cayley's theorem, Index theorem. Groups acting on themselves by conjugation, class equation and consequences, conjugacy in S_n , p-groups, Sylow's theorems and consequence.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to applications of group actions: Generalized Cayley's theorem, Index theorem. Groups acting on themselves by conjugation, class equation and consequences, conjugacy in S_n , p-groups, Sylow's theorems and consequences.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
NOVEMBER	Theory	Stokes' theorem, The Divergence theorem	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus

	Practicals	<p>Practical No .16- Relation of monotonicity & derivatives along with verification of first derivative test.</p> <p>Practical No .17- Relation of monotonicity & derivatives along with verification of first derivative test. Taylor's series - visualization by creating graphs:</p> <p>a. Verification of simple inequalities b. Taylor's Polynomials – approximated up to certain degrees. c. Convergence of Taylor's series d. Non-existence of Taylor series for certain functions e. Convexity of the curves</p>	B.Sc(H) Maths Sem-III A	C7-Multivariate Calculus
	Theory	Cauchy's theorem, Simplicity of A_n for $n \geq 5$, non-simplicity tests and to revise whole syllabus, to discuss last previous year questions papers.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II
	Tutorials	To discuss the doubt of students and various exercise questions and examples related to Cauchy's theorem, Simplicity of A_n for $n \geq 5$, non-simplicity tests and to revise whole syllabus, to discuss last previous year questions papers.	B.Sc(H) Maths Sem-V A	C12- Group Theory-II

Ms. Neha Mongia

Month		Topics	Course	Paper Code/Name
JULY	Theory 1	Basic principles: Comparison, arbitrage and risk aversion, Interest (simple and compound, discrete and continuous), time value of money, inflation, net present value, internal rate of return (calculation by bisection and Newton-Raphson methods), comparison of NPV and IRR.	Sem- V	Mathematical Finance DSE-II
	Theory 2	Polar representation of complex numbers, De Moivre's theorem	Sem- I	Algebra (C2)
	Practical 1	NA	Sem – I	Calculus (C1)
	Practical 2	NA	Sem- I	Calculus (C1)
	Tutorials	Doubt solving of topics covered	Sem – V	Mathematical Finance
AUGUST	Theory 1:	Bonds, bond prices and yields, Macaulay and modified duration, term structure of interest rates: spot and forward rates, explanations of term structure, running present value, floating-rate bonds, immunization, convexity, puttable and callable bonds.	Sem- V	Mathematical Finance DSE-II
	Theory 2	n th roots of unity, De Moivre's theorem for rational indices and its applications, equivalence relations, functions, composition of functions, invertible functions	Sem- I	Algebra (C2)
	Practical 1	Plotting of real valued functions and their derivatives, verifying the Roll's and	Sem – I	Calculus (C1)
	Practical 2	Plotting of real valued functions and their derivatives, verifying the Roll's and Lagrange's Theorem	Sem- I	Calculus (C1)
	Tutorials:	Doubts and problem solving of topics covered	Sem V	Mathematical Finance DSE-II

SEPTEMBER	Theory 1:	Asset return, short selling, portfolio return, (brief introduction to expectation, variance, covariance and correlation), random returns, portfolio mean return and variance, diversification, portfolio diagram, feasible set, Markowitz model (review of Lagrange multipliers for 1 and 2 constraints), Two fund theorem, risk free assets, One fund theorem, capital market line, Sharpe index. Capital Asset Pricing Model (CAPM), betas of stocks and portfolios, security market line, use of CAPM in investment analysis and as a pricing formula, Jensen's index.	Sem- V	Mathematical Finance DSE-II
	Theory 2	One to one correspondence and cardinality of a set, well ordering principle, division algorithm, divisibility and Euclidean algorithm, congruence relation between integers, principle of mathematical induction, statement of fundamental theorem of arithmetic	Sem- I	Algebra (C2)
	Practical 1	To find numbers between two real numbers and plotting of finite and infinite subsets of R, Matrix operations	Sem – I	Calculus (C1)
	Practical 2	Draw surfaces and level curves at given height, plotting tangent planes at a given point, checking for relative maxima/ minima / saddle point	Sem- I	Calculus (C1)
	Tutorial	Doubts and guidelines problem solving	Sem – V	Mathematical Finance DSE-II
	Assignment 1	Assignment to be submitted by end of October consisting of questions of topics covered in September and October	Sem V	Mathematical Finance DSE-II
<u>Assignment 2</u>	Assignment to be submitted by end of October consisting of questions of topics covered in September and October	Sem I	Algebra (C2)	

OCTOBER	Theory 1:	Forwards and futures, marking to market, value of a forward/futures contract, replicating portfolios, futures on assets with known income or dividend yield, currency futures, hedging (short, long, cross, rolling), optimal hedge ratio, hedging with stock index futures, interest rate futures, swaps.	Sem- V	Mathematical Finance DSE-II
	Theory 2:	System of linear equations, row reduction and echelon forms, vector equations, solution sets of linear systems, applications of linear systems, linear independence. Introduction to linear transformations, matrix of linear transformation, inverse of a matrix	Sem- I	Algebra (C2)
	Practical 1	Computation of limit, differentiation and integration of vector functions	Sem – I	Calculus (C1)
	Practical 2:	Computation of limit, differentiation and integration of vector functions	Sem- I	Calculus (C1)
	Tutorials:	Doubts and guideline problem solving	Sem – V	Mathematical Finance
	Test 1	Test on October 11 of topics covered till mid September	Sem V	Mathematical Finance DSE-II
	Test 2	Test on October 10 of topics covered till mid September	Sem I	Algebra (C2)
NOVEMBER	Theory 1	Lognormal distribution, Lognormal model / Geometric Brownian Motion for stock prices, Binomial Tree model for stock prices, parameter estimation, comparison of the models. Options, Types of options: put / call, European / American, pay off of an option, factors affecting option prices, put call parity	Sem V	Mathematical Finance DSE-II
	Theory 2	Characterization of invertible matrices, subspaces, dimension of subspaces, rank of a matrix, eigen values, eigen vectors and characteristic equation of a matrix	Sem I	Algebra (C2)
	Practical 1	Complex numbers and their representations, operations on complex numbers, graphical representation of polar form	Sem I	Calculus (C1)
	Practical 2	Complex numbers and their representations, operations on complex numbers, graphical representation of polar form	Sem I	Calculus (C1)
	Tutorials:	Doubt solving and previous year paper discussion	Sem V	Mathematical Finance DSE-II

Mr. Sachin Sharma

Month		Topics	Course	Paper Code/Name
July	Theory	Functions of several variables, limit and continuity of functions of two variables	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Practicals	(1).To Draw surfaces and find level curves at the given heights, (2).To draw the surfaces and discuss whether limit exists or not as approaches to the given points. Find the limit, if it exists: <i>Matlab / Mathematica / Maple etc.</i>	B.Sc.(H) Maths Sem-III	Multivariate Calculus
	Theory	Introduction to structured programming: data types- simple data types, floating data types.	B.Sc.(H) Maths Sem-V DSE-I	C++ programming
	Practicals	1. Calculate the Sum of the series $1/1 + 1/2 + 1/3 + \dots + 1/N$ for any positive integer N. 2. Write a user defined function to find the absolute value of an integer.	B.Sc.(H) Maths Sem-V DSE-I	C++ programming
	Tutorials	Discussion with the students and solve their problems.	B.Sc.(H) Maths Sem-III	Group Theory-I

August	Theory	Partial differentiation, total differentiability and differentiability, sufficient condition for differentiability. Chain rule for one and two independent parameters, directional derivatives, the gradient, maximal and normal property of the gradient, curl. Extrema of functions of two variables, method of Lagrange multipliers, constrained optimization problems.	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Practicals	(5).To find critical points and identify relative maxima, relative minima or saddle points to surfaces, if it exist. (6).To draw the regions D and check whether these regions are of Type I or Type II : (7). f be any function and be n any number. For given N and epsilon , find a delta such that for all satisfying , the inequality holds . <i>Using Matlab / Mathematica / Maple etc.</i>	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Theory	Character data types, string data types, arithmetic operators and operators precedence, variables and constant declarations, expressions, input using the extraction operator >> and cin, output using the insertion operator << and cout, preprocessor directives, increment(++) and decrement(--) operations,	B.Sc.(H) Maths Sem-V DSE-I	C++ programming
	Practicals	5. Write a program that prompts the user to input a positive integer. It should then output a message indicating whether the number is a prime number. 6. Write a program that prompts the user to input the value of a, b and c involved in the equation $ax^2 + bx + c = 0$ and outputs the type of the roots of the equation. Also the program should outputs all the roots of the equation.	B.Sc.(H) Maths Sem-V DSE-I	C++ Programming
	Tutorials	Discussion with the students and solve their problems.	B.Sc.(H) Maths Sem-III	Group Theory-I

September	Theory	Double integration over rectangular region, double integration over nonrectangular, Double integrals in polar co-ordinates, Triple integrals, Triple integral over a parallelepiped and solid regions, Volume by triple integrals, cylindrical and spherical co-ordinates, Change of variables in double integrals and triple	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Practicals	(11). To Illustrate the geometric meaning of Rolle's theorem of the functions on the given interval. (12). To Illustrate the geometric meaning of Lagrange's mean value theorem of the functions on the given interval.	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Assignment	Chapter-11 and Chapter -12 (According to the Guidelines)	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Theory	Creating a C++ program, input/ output, relational operators, logical operators and logical expressions, if and if-else statement, switch and break statements.	B.Sc.(H) Maths Sem-V DSE-I	C++ programming
	Practicals	10. Write a program that prompts the user to input five decimal numbers. The program should then add the five decimal numbers, convert the sum to the nearest integer, and print the result. 11. Write a program that prompts the user to enter the lengths of three sides of a triangle and then outputs a message indicating whether the triangle is a right triangle or a scalene triangle.	B.Sc.(H) Maths Sem-V DSE-I	C++ programming
		Assignment	Based on covered syllabus.	B.Sc.(H) Maths Sem-V DSE-I
	Tutorials	Discussion with the students and solve their problems.	B.Sc(H) Maths Sem-III	Group theory-I
October	Theory	Line integrals, Applications of line integrals: Mass and Fundamental theorem for line integrals, conservative vector fields, independence of Green's theorem, surface integrals, integrals over parametrically defined surfaces	B.Sc(H) Maths Sem-III	Multivariate Calculus

	Practicals	(15). To locating points of relative & absolute extremum for different functions. (16). Relation of monotonicity & derivatives along with verification of first derivative test.	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Test	Based on covered syllabus	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Theory	“for”, “while” and “do-while” loops and continue statement, nested control statement, value returning functions, value versus reference parameters, local and global variables, one dimensional array, two dimensional array,	B.Sc.(H) Sem-V DSE-I	C++ Programming
	Practicals	15. Enter 10 integers into an array and then search for a particular integer in the array. 16. Multiplication/ Addition of two matrices using two dimensional arrays. 17. Using arrays, read the vectors of the following type: $A = (1\ 2\ 3\ 4\ 5\ 6\ 7\ 8)$, $B = (0\ 2\ 3\ 4\ 0\ 1\ 5\ 6)$ and compute the product and addition of these vectors.	B.Sc.(H) Sem-V DSE-I	C++ Programming
	Test	Based on Covered syllabus	B.Sc.(H) Sem-V DSE-I	C++ Programming
	Tutorials	Discussion with the students and solve their problems.	B.Sc(H) Maths Sem-III	Group Theory-I
November	Theory	Stokes’ theorem, The Divergence theorem and revision of whole syllabus.	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Practicals	(17). Taylor’s series - visualization by creating graphs: a. Verification of simple inequalities b. Taylor’s Polynomials – approximated up to certain degrees c. Convergence of Taylor’s series d. Non-existence of Taylor series for certain functions e. Convexity of the curves.	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Theory	Pointer data and pointer variables and revision of whole syllabus	B.Sc. (H) Maths Sem-V DSE-I	C++ Programming

	Practicals	Revision of all practicals.	B.Sc. (H) Maths Sem-V DSE-I	C++ Programming
	Tutorials	Discussion with the students and solve their problems.	B.Sc(H) Maths Sem-III	Group Theory-I

Ms. Rajni Arora

Month		Topics	Course	Paper Code/Name
AUGUST	Theory	Techniques of sketching conics, reflection properties of conics and related problems	B.Sc(H) Mathematics Sem-1	C1- Calculus
		Introduction to TeX and LaTeX, typesetting a simple document, adding basic information, environments, footnotes, sectioning and displayed material; related problems	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
		First order ordinary differential equations: Basic concepts and ideas, Exact differential equations, Integrating factors, Bernoulli equations, Orthogonal trajectories of curves, Existence and uniqueness of solutions, Second order differential equations: Homogenous linear equations of second order, Second order homogenous equations with constant coefficients; related problems	B.Sc(H) Chemistry, Sem-3, B.Sc(H) Physics Sem-3	GE-3 Differential Equations
	Practicals:	Introduction to TeX and LaTeX, typesetting a simple document, adding basic information, environments, footnotes, sectioning and displayed material	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
SEPTEMBER	Theory	Rotation of axes and second degree equations, classification into conics using the discriminant, Introduction to vector functions and their graphs. operations with vector-valued functions, limits and continuity of vector functions	B.Sc(H) Mathematics Sem-1	C1- Calculus
		Assents and symbols, Mathematical typesetting	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML

		Differential operator, Euler-Cauchy equation, Existence and uniqueness theory, Wronskian, Nonhomogenous ordinary differential equations, Solution by undetermined coefficients, Solution by variation of parameters, Higher order homogenous equations with constant coefficients, System of differential equations, System of differential equations, Conversion of n th order ODEs to a system, Basic concepts and ideas, Homogenous system with constant coefficients, Power series method: Theory of power series methods, Legendre's equation, Legendre	B.Sc(H) Chemistry, Sem-3, B.Sc(H) Physics Sem-3	GE-3 Differential Equations
	Practicals	Assents and symbols, Mathematical typesetting, Beamer presentation, Introduction to HTML, creating simple web pages	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
	Assignment	Problems covering all topics done in August, September	B.Sc(H) Mathematics Sem-1	C1- Calculus
		Problems covering all topics done in August, September	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
		Problems covering all topics done in August, September	B.Sc(H) Chemistry, Sem-3, B.Sc(H) Physics	GE-3 Differential Equations
OCTOBER	Theory	differentiation and integration of vector functions, Modeling ballistics and planetary motion, Kepler's second law, Curvature, tangential and normal components of acceleration	B.Sc(H) Mathematics Sem-1	C1- Calculus
		Graphics in LaTeX, use of PS Tricks	B.Sc(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
		Partial differential equations: Basic Concepts and definitions, Mathematical problems, First order equations: Classification, Construction, Geometrical interpretation, Method of characteristics, General solutions of first order partial differential equations, Canonical forms and method of separation of variables for first order partial differential equations, Classification of second order partial differential equations, Reduction to canonical forms	B.Sc(H) Chemistry, Sem-3, B.Sc(H) Physics Sem-3	GE-3 Differential Equations
	Practicals:	Graphics in LaTeX, use of PS Tricks, Design of web pages	B.Sc.(H) Mathematics Sem-3	SEC-1 LaTeX and HTML

	<u>Mid Term Test</u>	Problems from all the topics covered till date	B.Sc.(H) Mathematics Sem-1	C1- Calculus
		Problems from all the topics covered in class till that date	B.Sc.(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
		Problems from all the topics covered in class till that date	B.Sc.(H) Chemistry, Sem-3, B.Sc.(H) Physics Sem-3	GE-3 Differential Equations
NOVEMBER	Theory:	Revision and doubts sessions	B.Sc.(H) Mathematics Sem-1	C1- Calculus
		Plotting of functions in LaTeX, revision	B.Sc.(H) Mathematics Sem-3	SEC-1 LaTeX and HTML
		Second order partial differential equations with constant coefficients, General solutions; revision	B.Sc.(H) Chemistry, Sem-3, B.Sc.(H) Physics Sem-3	GE-3 Differential Equations
	Practicals:	Plotting of functions in LaTeX and practice problems	B.Sc.(H) Mathematics Sem-3	SEC-1 LaTeX and HTML



SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

July-November, 2020

Name of the Faculty: Dr SANTOSH KUMAR SINGH

Department: POLITICAL SCIENCE

Semester: B.A (Hons) Vth Semester
Paper XI-Classical Political Philosophy

Month		Topics	Course	Paper Code/Name
JULY	Theory:	What is Political Thought, Theory and Philosophy. Debates on Decline and Resurgence of Political Theory Methods of Interpretation: Textual, Contextual and Postmodern Approach	B.A (Hons) Vth Semester	Paper XI- Classical Political Philosophy
	Tutorials:	Text and Interpretation Philosophy and science Science and Politics Metaphysics and Epistemology		
AUGUST	Theory:	Textual Approach – Terence Ball, Hannah Arendt, Leo Strauss. Contextual Approach-Quentin Skinner, Thomas Kuhn, Sheldon Wolin	B.A (Hons) Vth	Paper XI- Classical Political Philosophy

		Postmodern Approach- Herbert Marcuse, Jurgen Habermas, Michel Foucault, Nietzsche Plato's Philosophy- Theory of Forms, Justice, Philosopher King/Queen, Communism Plato's Later Political Thought	Semester	
	Tutorials:	Textual, Contextual and Postmodern Approach Plato's Philosophy		
SEPTEMBER	Theory:	Aristotle Philosophy-Comparison with Plato Religion, Theory on State, Citizenship, Slavery, and Forms of Government, Ethics, Constitution, Justice Political Thought from Ancient Greece to Early Christianity Machiavelli's Philosophy-Virtu, Religion, Republicanism, Separation of State vs Religion, morality and statecraft; vice and virtue and Modern thinker	B.A (Hons) Vth Semester	Paper XI- Classical Political Philosophy
	Assignment	Textual, Contextual and Postmodern Approach Plato's Philosophy Aristotle Philosophy		
OCTOBER	Theory	Hobbes Philosophy-Human nature, State of Nature, Social Contract, State, Leviathan; atomistic individuals. Locke's Philosophy- Laws of Nature, Natural Rights, Property, right to dissent, Theory on State, Rights, Forms of Government	B.A (Hons) Vth Semester	Paper XI- Classical Political Philosophy
	Tutorials:	Hobbes Philosophy compare with Locke's Philosophy		
	<u>Mid Term Test</u>			
NOVEMBER	Theory:	Understanding the Political Philosophy – From Plato to Locke Revision of previous topics	B.A (Hons) Vth	Paper XI- Classical Political Philosophy

			Semester	
	Tutorials:	Debates on Contractarian Thinkers		

(Dr Santosh Kumar Singh)



SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

July-November, 2018

Name of the Faculty: Dr SANTOSH KUMAR SINGH

Department: POLITICAL SCIENCE

**Semester: B.A (Prog) Vth Semester
Paper GE (Interdisciplinary): Reading Gandhi**

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Philosophy Vs Theory, Thought Vs Theory, Thought Vs Philosophy in the context of Gandhi Approaches of Interpretation: Textual, Contextual and Postmodern Approach	B.A (Prog) Vth Semester	Paper GE (Interdisciplinary): Reading Gandhi
	Tutorials:	Philosophy and Politics Philosophy and science Metaphysics and Epistemology		
AUGUST	Theory:	Textual Approach – Terence Ball, and Leo Strauss.	B.A (Prog)	Paper GE

		Contextual Approach-Quentin Skinner, and Sheldon Wolin Postmodern Approach- Herbert Marcuse, Jurgen Habermas, Michel Foucault, Nietzsche Gandhi's Philosophy Gandhi in his own words: A close reading of Hind Swaraj	Vth Semester	(Interdisciplinary): Reading Gandhi
	Tutorials:	Textual, Contextual and Postmodern Approach Gandhi's Philosophy		
SEPTEMBER	Theory:	Commentaries on Hind Swaraj and Gandhian thought by A.J.Parel, B.Parekh, and D.Hardiman	B.A (Prog) Vth Semester	Paper GE (Interdisciplinary): Reading Gandhi
	Assignment	Textual, Contextual and Postmodern Approach Gandhi's Philosophy- Modernity, Swaraj, Satyagraha		
OCTOBER	Theory	Gandhi and modern India- Nationalism, Communal unity, Women's Question, and Untouchability	B.A (Prog) Vth Semester	Paper GE (Interdisciplinary): Reading Gandhi
	Tutorials:	Relevance of Gandhi in Our life		
	<u>Mid Term Test</u>			
NOVEMBER	Theory:	Understanding the Overall Gandhi's Philosophy and Contribution Revision of previous topics	B.A (Prog) Vth Semester	Paper GE (Interdisciplinary): Reading Gandhi
	Tutorials:	Where do you find Gandhi ji		

(Dr Santosh Kumar Singh)



**SEMESTER WISE TEACHING
PLAN (2017-2018)
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Namita Pandey

Department: Political Science

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Approaches to Understanding Patriarchy. Feminist theory of Sex/Gender Distinction Biologism vs. Social Construction Understanding Patriarchy and Feminism	BA(Hons), Fifth Semester, Political Science	Feminism: Theory and Practice

	Practicals			
	Tutorials	Discussion on Sylvia Walby - Theorizing Patriarchy		
AUGUST	Theory:	<p>Liberal Theory of Feminism. Discussion of First Wave of Feminism with special reference to Mary Wollstonecraft & other Feminist authors.</p> <p>Marxist theory of Feminism with special reference to Marx and Engels perspective on Feminism</p>		
	Practicals:			
	Tutorials:	Understanding Sex/Gender distinctions in day to day living		

	Assignment :	Critically Examine the liberal theory of Feminism from Marxian Perspective
SEPTEMBER	Theory:	<p>Socialist Theory of Feminism with Special reference to Dual Patriarchy, Zilla Einstein's notion of Capitalist Patriarchy</p> <p>Emphasis on Women's Question from Neomarxist Perspective</p> <p>Radical Theory of Feminism</p>
	Practicals:	

	Tutorials:	A discussion on Betty Friedans Feminine Mystique, Simon De Beauvoir's Second Sex
	Test	A Critical Comparison between Radical and Socialist Feminism
OCTOBER	Theory:	Origin of Feminist in the West: Women in French Revolution, Suffrage Movement in Britain and West, Feminism in Scoalist Countries, Women in Russian Revolution, Feminist Movements in China and Cuba, Feminist Issues and Womens Participation in Anti Colonial and national Liberation Movements with special reference to India
	Practicals:	
	Tutorials:	Class Presentation on Women in Indian National Movement

NOVEMBER	Theory:	<p>Traditional Histiography and Feminist Critiques: A Criticism of Traditional History by Analyzing the Social Reform movement and Indian National Movement & Position of Women in India</p> <p>Family in India: Patrilineal and Matrilineal, Patterns of Consumption, Intra Household Bargaining and Entitlement, Property Rights</p> <p>Women in Work, Seual Division of Productive and Reproductive Work, Paid, Underpaid and Unpaid work, Visible and Invisible Work, Methods of Computing Women's Work, Female Head Households</p>
	Practicals:	
	Tutorials:	A discussion on domestic labor debate emerging in the context of unpaid labour



**SEMESTER WISE TEACHING
PLAN (2017-2018)
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Namita Pandey

Department: Political Science

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Approaches to Understanding Patriarchy. Feminist theory of Sex/Gender Distinction Biologism vs. Social Construction	BA(Hons), Fifth Semester, Political Science	Feminism: Theory and Practice

		Understanding Patriarchy and Feminism		
	Practicals			
	Tutorials	Discussion on Sylvia Walby - Theorizing Patriarchy		
AUGUST	Theory:	<p>Liberal Theory of Feminism. Discussion of First Wave of Feminism with special reference to Mary Wollstonecraft & other Feminist authors.</p> <p>Marxist theory of Feminism with special reference to Marx and Engels perspective on Feminism</p>		
	Practicals:			
	Tutorials:	Understanding Sex/Gender distinctions in day to day living		

	<u>Assignment</u> :	Critically Examine the liberal theory of Feminism from Marxian Perspective		
SEPTEMBER	Theory:	<p>Socialist Theory of Feminism with Special reference to Dual Patriarchy, Zilla Einstein's notion of Capitalist Patriarchy</p> <p>Emphasis on Women's Question from Neomarxist Perspective</p> <p>Radical Theory of Feminism</p>		

	Practicals:	
	Tutorials:	A discussion on Betty Friedans Feminine Mystique, Simon De Beauvoir's Second Sex
	<u>Test</u>	A Critical Comparison between Radical and Socialist Feminism
OCTOBER	Theory:	Origin of Feminist in the West: Women in French Revolution, Suffrage Movement in Britain and West, Feminism in Scoalist Countries, Women in Russian Revolution, Feminist Movements in China and Cuba, Feminist Issues and Womens Participation in Anti Colonial and national Liberation Movements with special reference to India
	Practicals:	
	Tutorials:	Class Presentation on Women in Indian National Movement

NOVEMBER	Theory:	<p>Traditional Histiography and Feminist Critiques: A Criticism of Traditional History by Analyzing the Social Reform movement and Indian National Movement & Position of Women in India</p> <p>Family in India: Patrilineal and Matrilineal, Patterns of Consumption, Intra Household Bargaining and Entitlement, Property Rights</p> <p>Women in Work, Seual Division of Productive and Reproductive Work, Paid, Underpaid and Unpaid work, Visible and Invisible Work, Methods of Computing Women's Work, Female Head Households</p>
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	Practicals:	
	Tutorials:	A discussion on domestic labor debate emerging in the context of unpaid labour



**SEMESTER WISE
TEACHING PLAN 2017-
18(August to December)
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. RajKishor Arya

Department: Sanskrit

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
August	Theory	SECTION 'C': Mahabharata	B.A. 1 ST YEAR (H)	C-2 Critical Survey of Sanskrit Literature
		SECTION 'A': Introduction to Sanskrit Poetics:	B.A. 2 ND YEAR (H)	C-6 Poetics and Literary Criticism (12131302)

		SECTION 'IV': abdarpa (Declensions), Le LakaRa (Subjunctive Mood),	B.A. 3 RD YEAR (H)	C-11 Vedic Literature
		SECTION I Sañjñ Sañjñ Prakaraa according to Laghusiddhntakaumu d	B.A. 1 Year B.A (P.)	Grammar and Translation (52131417)
	Tutorials	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		
September	Theory:	SECTION 'C': Mahabharata	B.A. 1 ST YEAR (H)	C-2 Classical Sanskrit Literature
		SECTION 'B': Forms of Kavya- Literature:	B.A. 2 ND YEAR (H)	C-6 Poetics and Literary Criticism (12131302)
		SECTION 'IV': Tumarthaka (Infinitives), Vedic Svara (Accent) and Padapha.	B.A. 3 RD YEAR (H)	C-11 Vedic Literature
		SECTION II Sandhi	B.A. 1 Year B.A (P.)	Grammar and Translation (52131417)
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		

	<u>Assignment</u> :	ASSIGNMENTS WILL BE GIVEN REGARDING THE TOPICS		
October	Theory:	SECTION 'D': Puranas	B.A. 1 ST YEAR (H)	C-2 Classical Sanskrit Literature
		SECTION 'C': Sabda-sakti:	B.A. 2 ND YEAR (H)	C-6 Poetics and Literary Criticism (12131302)
		SECTION : V Muakopaniad: Muakopaniad - 1.1 to 2.1	B.A. 3 RD YEAR (H)	C-11 Vedic Literature
		SECTION III Sandhi	B.A. 1 Year B.A (P.)	Grammar and Translation (52131417)
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		
	<u>Test</u>	TESTS WILL BE TAKEN TIMELY		
November	Theory:	SECTION 'E': General Introduction to Vyakarana, Darsana and Sahityasastra	B.A. 1 ST YEAR (H)	C-2 Classical Sanskrit Literature

	SECTION 'C': Rasa-sutra:	B.A. 2 ND YEAR (H)	C-6 Poetics and Literary Criticism (12131302)
	SECTION VI Muakopaniad: Muakopaniad – 2.2 to 3.2	B.A. 3 RD YEAR (H)	C-11 Vedic Literature
	SECTION VI Composition	B.A. 1 Year B.A (P.).	Grammar and Translation (52131417)
Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		



**SEMESTER WISE TEACHING
PLAN (2017-2018)**

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Sunita Atal

Department: Sanskrit

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
August	Theory	Section -A Indian Social Institutions: Nature and concepts	B.A 2 nd YEAR(H)	INDIAN SOCIAL INSTITUTIONS AND POLITY
	Tutorials	Tutorials Regarding The Topic will be taken		
SEPTEMBER	Theory:	Section- B Structure of Society and Values of Life 1.Varna-System 2Caste System	B.A 2 nd YEAR(H)	INDIAN SOCIAL INSTITUTIONS AND POLITY

		<p>Section- B Structure of Society and Values of Life</p> <p>1.Position of women in the Society</p> <p>2.Socoal Values in the Society</p> <p>Classical Sanskrit Literature (Drama)</p> <p>Svapnavasadattam Bhasa Act1</p>	<p>B.A 2nd YEAR(H)</p> <p>B.A 2nd YEAR(H)</p>	<p>INDIAN SOCIAL INSTITUTIONS AND POLITY</p> <p>Classical Sanskrit Literature (Drama)</p>
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	Tutorials:	Tutorials Regarding the Topic will be taken		
	<u>Assignment :</u>	Assignment will be given Regarding the course		
OCTOBER	Theory:	Section-c Indian Polity: origin and Development Initial stage of Indian Polity	B.A 2 nd YEAR(H)	INDIAN SOCIAL INSTITUTIONS AND POLITY
		Classical Sanskrit Literature (Drama) Svapnavasadattam - Bhasa Act2	B.A 2 nd YEAR(H)	Classical Sanskrit Literature (Drama)
	Tutorials:	Tutorials Regarding the Topic will be taken		
	<u>Test</u>	Test will be Taken Timely		
NOVEMBER	Theory:	Section-c Indian Polity :origin and Development Initial stage of Indian Polity From Vedic Period to	B.A 2 nd YEAR(H)	INDIAN SOCIAL INSTITUTIONS AND POLITY
	Tutorials:	Tutorials Regarding the Topic will be taken		



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Kameshwar Sharma YVR

Department: Biochemistry

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory			
	Practical			
	Tutorials			
AUGUST	Theory:	UNIT-I Cells and Organelles Plasma Membrane, Mitochondria, Chloroplast, ER Unit-2 Photosynthesis and Carbon Assimilation Light Reaction and Mechanism Calvin cycle and regulation Unit-3 Enzymes Introduction-Coenzymes, cofactors, prosthetic group, classification, active site specificity, Kinetics, Inhibition, Catalytic mechanism – Chymotrypsin or Lysozyme	Biochemistry (Hons.) Biological Sciences (Hons) Biological Sciences (Hons)	BCH GE-5/ Fundamentals of Cell Biology and Immunology BS DSE-9/ Plant Biochemistry BS-C5 / Proteins and Enzymes
	Practical:	Isolation of organelles by Sub- cellular fractionation <ul style="list-style-type: none"> • Isolation and extraction • Enzyme Assay • Characterization (SDSPAGE) Thin Layer Chromatography (TLC), Gel Filtration Chromatography – Preparation of solutions and column 1. Isolation of plasmid DNA from E.coli. and restriction 2. Restriction enzyme digestion plasmid DNA. 3. Estimation of size of a DNA fragment after electrophoresis using DNA markers.	TBCH – Biochemistry (H) PGDB BIOLOGICAL SCIENCES (Hons.) TBS	(DSE) – Advanced Cell Biology BCH DSE-6 PGD MBL 104 BS-C12: FUNDAMENTALS OF GENETICS
SEPTEMBER	Theory:	UNIT-I Cells and Organelles Golgi complex, lysosome, peroxisome, cytoskeleton, ECM, cell wall, Mitosis and Meiosis	Biochemistry (Hons.)	BCH GE-5/ Fundamentals of Cell Biology and Immunology

		Unit- 2 Membrane structure and function Unit-2- C4 cycle, CAM and Photorespiration Unit-5 Regulation of Plant growth Auxins, Alkaloids Unit-1 Biomolecules Lipids and Carbohydrates – Structure, classification and functions	Biological Sciences (Hons) Biological Sciences (Hons)	BS DSE-9/ Plant Biochemistry BS-C5 / Proteins and Enzymes
	Practical:	Study of Cell Viability/death assay <ul style="list-style-type: none"> • Trypan Blue • MTT assay Study of Apoptosis through – DNA fragmentation patterns (Repeat) Gel Filtration Chromatography (GFC), Ion Exchange Chromatography (IEC) 1. Construction of Restriction digestion maps from data provided. 2. Demonstration of DNA fingerprinting. 3. Study of abnormal human karyotype and pedigrees (dry lab)	TBCH PGDB BIOLOGICAL SCIENCES (Hons.) TBS	(DSE) – Advanced Cell Biology BCH DSE-6 PGD MBL 104 BS-C12: FUNDAMENTALS OF GENETICS
	<u>Assignment :</u>			
OCTOBER	Theory:	Unit-3 ER and Golgi complex Unit-4 Signaling Mechanisms Unit-5 Secondary Metabolites Phenols, Terpenoids Unit-1 Plant Cell Structure Plasma membrane Unit- 5 Role of Metal Ions in Biology Metalloprotein, Metalloenzyme, Drug base interaction Mitochondrial Electron Transport chain	Biochemistry (Hons.) Biological Sciences (Hons) Biological Sciences (Hons)	BCH GE-5/ Fundamentals of Cell Biology and Immunology BS DSE-9/ Plant Biochemistry BS-C5 / Proteins and Enzymes

	Practical:	Identification and study of cancerous cells – Permanent slides and photomicrographs Ion Exchange Chromatography (IEC), Affinity Chromatography 1. Study of Linkage, recombination, gene mapping using marker based data from Drosophila. 2. Study of Phlox/ Allium Karyotype (normal and abnormal). 3. PTC testing in a population and calculation of allele and genotype frequencies.	TBCH PGDB BIOLOGICAL SCIENCES (Hons.) TBS	(DSE) – Advanced Cell Biology BCH DSE-6 PGD MBL 104 BS-C12: FUNDAMENTALS OF GENETICS
	Test	Exam shall be conducted from the syllabus covered (till then) in all the subjects and courses.		
NOVEMBER	Theory:	Unit-4 Messengers and receptors Unit-5 Cell cycle and Regulation Unit-1 Vacuole, tonoplast, cell wall, Plastids, Peroxisomes Unit- 4 Enzyme Immobilization	Biochemistry (Hons.) Biological Sciences (Hons) Biological Sciences (Hons)	BCH GE-5/ Fundamentals of Cell Biology and Immunology BS DSE-9/ Plant Biochemistry BS-C5 / Proteins and Enzymes
	Practical:	Repeat of any practical's and conduct of Practical Mock exam Repeat of GFC and Conduct of Mock Practical Exam 1. Revision 2. Mock Practical Exam	TBCH PGDB Biological Sciences (Hons)	(DSE) – Advanced Cell Biology BCH DSE-6 PGD MBL 104 BS-C12: FUNDAMENTALS OF GENETICS

Dr. Kameshwar Sharma
Assistant Professor



SRI VENKATESWARA COLLEGE (University of Delhi)
Benito Juarez Road, Dhaula Kuan, New Delhi- 110021
TIME TABLE – 2017 – 18 (Odd -Semester)

Course : FBS (I sem)

Department : BIOLOGICAL SCIENCE

	1 8.45- 9.45 am	2 9.45-10.45 am	3 10.45-11.45 am	4 11.45-12.45 am/pm	5 01.05-2.05 pm	6 2.05-3.05 pm	7 3.05-4.05 pm	8 4.05-5.05 pm	9 5.05-6.05 pm
MONDAY	GE I practicals				GE I		Th 255 C		
TUESDAY		Th 255 B	Th 255 C	AECC 255	GE I		Th 255 B		
WEDNESDAY	Light and life (B) Biochem Lab				GE I				
THURSDAY	Chemistry A2				AECC B1	AECC B1			
FRIDAY	Th 255 B	Th 255 C	AECC 255		GE I	Th 255 C	Th 255 B		
SATURDAY									

2x4 = 8 Practicals
1x4 = 4 Practicals

Core Courses : (CCs) : 2x4= 8 Th
Generic Elective (GE) : 1x4=4 Th
AECC : 1x4= 4 Th

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PRINCIPAL
Sri Venkateswara College
(University of Delhi)
Dhaula Kuan, New Delhi-110021



SRI VENKATESWARA COLLEGE (University of Delhi)
Benito Juarez Road, Dhaula Kuan, New Delhi- 110021
TIME TABLE - 2017 - 18 (Odd -Semester)

Department : BIOLOGICAL SCIENCE

Course : SBS (III sem)

	1 8.45-9.45 am	2 9.45-10.45 am	3 10.45-11.45 am	4 11.45-12.45 am/pm	5 01.05-2.05 pm	6 2.05-3.05 pm	7 3.05-4.05 pm	8 4.05-5.05 pm	9 5.05-6.05 pm
MONDAY	ECOLOGICAL ZOO (H) LAB					Th 251 BC	Th 251 Z	Th 251 B	
TUESDAY	GE III Practicals				C5 PROTEINS AND ENZYMES 159+BIOCHEM LAB				
WEDNESDAY	Th 258 Z	Th B1 B	Th B1 BC		C6 CELL BIOLOGY A2				
THURSDAY	Th 251 BC			Th 258 Z	LUNCH 12.45 - 1.05 pm				
FRIDAY	Th B1 B	Th 256 BC		Th 255 Z	GE III	GE III	Th B2 B		
SATURDAY	GE III	GE III	Th 251 B	Th 251 B	SEC BOTANY B2				

3x4 = 12 Practicals
1x4=4 Practicals
1x4= 4 Practicals

Core Courses : (CCs)
Skill Enhancement Course (SEC)
Generic Elective (GE)

- Students who opt for GE without Practicals have 5 Theory periods and Tutorials

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PRINCIPAL
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Dhaulta Kuan, New Delhi-110021

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SRI VENKATESWARA COLLEGE (University of Delhi)
Benito Juarez Road, Dhaula Kuan, New Delhi- 110011
TIME TABLE - 2017 - 18 (O/A Semesters)

Department : BIOLOGICAL SCIENCE

	1 8.45- 9.45 am	2 9.45-10.45 am	3 10.45-11.45 am	4 11.45-12.45 am/pm	5 01.05-2.05 pm	6 2.05-3.05 pm	7 3.05-4.05 pm	8 4.05-5.05 pm	9 5.05-6.05 pm
MONDAY	Th 257 BC	Th 257 Z		Th 58 B		Th B1 BC	Th 58 Z		
TUESDAY	Th 58 Z		Th B1 BC	Th 258 BC	GROWTH AND REPRODUCTION PRAC A2				
WEDNESDAY	Th 256 BC		Th 256 B	Th B1 Z					
THURSDAY	GENETICS PRAC PGD LAB+BIOTECH ROOM				LUNCH 12.45 - 1.45 pm	Th 257 Z	Th 58 BC		
FRIDAY	DSE PLANT BIOCHEMISTRY PGD LAB+BIOTECH ROOM				BREAK	Th BTECH ROOM	Th 257 Z	Th 257 BC	
SATURDAY					DSE I ENDOCRINOLOGY Practicals ZOO (H) LAB				

Course : TB5 (V sem)

Core Courses : (CCs) : 2x4= 8 Th : 2x4 = 8 Practicals
Discipline Specific Electives (DSEs) : 2x4= 8 Th : 2x4 = 8 Practicals

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PROFESSOR,
Sri Venkateswara College
University of Delhi
Dhaula Kuan, New Delhi-110021

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**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. NIMISHA SINHA

Department: BIOCHEMISTRY

Semester: I/III/V (2017-18)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unit 2: Tools of cell biology: Centrifugation for subcellular fractionation: Density gradient and Differential Gradient centrifugation, FACS.	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	CBCS C2: Cell Biology
		Unit 3: Respiration: Overview of glycolysis, Alternative reactions of glycolysis,	B.Sc. BIOLOGICAL SCIENCE Hons) III Year	CBCS DSE 9: Plant Biochemistry
	Practical	1. Estimation of RNA by Orcinol Method	B.Sc. BIOCHEMISTRY Hons) III Year, Semester IV	CBCS C12: Gene Expression and Regulation
		1. Determination of CMC of detergents.	B.Sc. BIOCHEMISTRY Hons) II Year, Semester III	CBCS C6: Membrane Biology and Bioenergetics
		1. Buffer Preparation: acetate and phosphate; calculation by Henderson Hasselbach equation.	B.Sc (Hons) Biological Science, II Year, Semester III	CBCS C5: Proteins and Enzymes
AUGUST	Theory	Unit 2 (contd) Light microscopy, phase contrast microscopy, fluorescence microscopy, confocal microscopy, electron microscopy Unit 3 Structure of different cell organelles: ER structure. Targeting proteins to ER, smooth ER.	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	CBCS C2: Cell Biology
		Unit 3: Respiration: Regulation of plant glycolysis, Translocation of metabolites across mitochondrial membrane, TCA cycle, Alternative NAD(P)H oxidative pathways; Cyanide resistant respiration.	B.Sc. BIOLOGICAL SCIENCE Hons) III Year, Semester I	CBCS DSE 9: Plant Biochemistry
		Unit 2: Introduction to cloning vectors. Plasmids: Classification of plasmids, Regulation of plasmid copy number, Applications and introduction to pBR322, Selection markers.	PGDMB Semester I	PGDMB102 Recombinant DNA technology
	Practical	1. Extraction of total nucleic acids from plant tissue. 2. Isolation of Total RNA from bacteria/yeast. 3. Growth curve of <i>E. coli</i>	B.Sc. BIOCHEMISTRY Hons) III Year, Semester IV	CBCS C12: Gene Expression and Regulation
		1. Effect of lipid composition on the permeability of a lipid monolayer. 2. Determination of CMC of detergents by PAN dye. 3. Separation of photosynthetic pigments by TLC.	B.Sc. BIOCHEMISTRY Hons) II Year, Semester III	CBCS C6: Membrane Biology and Bioenergetics
		1. Determination of pKa of acetic acid 2. Determination of protein concentration using Biuret Test.	B.Sc (Hons) Biological Science, II Year, Semester III	CBCS C5: Proteins and Enzymes

SEPTEMBER	Theory	Unit 3 (contd) Organization of GOLGI, Lysosome. Overview of protein sorting to cell cellular organelles. Endocytosis, Pinocytosis and phagocytosis. Unit 4 Cytoskeletal proteins: Introduction to cytoskeletal proteins Actin, Myosin, Tubulin.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I	CBCS C2: Cell Biology
		Unit 3: Biological Nitrogen fixation by free living and in symbiotic association, structure and function of enzyme Nitrogenase. Nitrate assimilation: Nitrate and Nitrite reductase. Primary and secondary ammonia assimilation in plants; ammonia assimilation by Glutamine synthetase-glutamine oxoglutarate amino transferase (GS-GOGAT) pathway. Seed storage proteins in legumes and cereals	B.Sc. BIOLOGICAL SCIENCE (Hons.) III Year, Semester III	CBCS DSE 9: Plant Biochemistry
		Unit 2 (contd): Phage based vectors: Filamentous phage and Lambda phage vectors Cosmids, High capacity vectors PAC, BAC, P1 phage based vectors.	PGDMB Semester I	PGDMB 102 Recombinant DNA technology
	Practical	1. Diauxic growth curve effect 2. Effect of inhibitors on protein synthesis 3. Continuous evaluation	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester IV	CBCS C12: Gene Expression and Regulation
		1. RBC ghost cell preparation and to study the effect of detergents on membranes. 2. Isolation of mitochondria from liver and assay of marker enzyme SDH. 3. Continuous evaluation	B.Sc. BIOCHEMISTRY (Hons.) II Year, Semester III	CBCS C6: Membrane Biology and Bioenergetics
		1. Lowry's method 2. Preparation of crude extract of Mung bean and assay of acid phosphatase to determine enzyme activity. 3. Progress curve of Acid phosphatase 4. Continuous evaluation	B.Sc (Hons) Biological Sciences, II Year, Semester III	CBCS C5: Proteins and Enzymes
	Test	Unit 2 Tools and techniques in Cell biology Combined test conducted by teachers teaching this course.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I	CBCS C2: Cell Biology
		Unit 3: Respiration: Regulation of plant glycolysis, Translocation of metabolites across mitochondrial membrane, TCA cycle, Alternative NAD(P)H oxidative pathways; Cyanide resistant respiration. Combined test conducted by teachers teaching this course.	B.Sc. BIOLOGICAL SCIENCE (Hons.) III Year, Semester I	CBCS DSE8: Plant Biochemistry
		Unit 2: Introduction to cloning vectors. Plasmids: Classification of plasmids, Regulation of plasmid copy number, Applications and introduction to pBR322, Selection markers. Combined test conducted by teachers teaching this course.	PGDMB Semester I	PGDMB 102 Recombinant DNA technology
	OCTOBER	Theory	Unit 3: Organization of cytoskeletal protein RBC and smooth muscle and skeletal muscles. Structure of cilia and flagella.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I
Unit 3: Cell and tissue culture techniques, types of cultures: organ and explants culture, callus culture, cell suspension culture and protoplast culture.			B.Sc. BIOLOGICAL SCIENCE (Hons.) III Year, Semester I	CBCS DSE 9: Plant Biochemistry

		Selection and screening of recombinant clones: Radiolabelled probe preparation via nick translation, random priming, 3' end labeling, 5' end labeling, Guessmers and degenerate probes, Non radioactive probes preparation using Biotin, Digoxigenin.	PGDMB Semester I	PGDMB 102 Recombinant DNA technology
	Practical	1. Revision of practical.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	CBCS C12: Gene Expression and Regulation
		1. Study photosynthetic O ₂ evolution in hydrilla plant. 2. Isolation of chloroplast from spinach leaves, estimation of chlorophyll and photosynthetic activity. 3. Continuous evaluation	B.Sc. BIOCHEMISTRY (Hons.) II Year, Semester III	CBCS C6: Membrane Biology and Bioenergetics
		1. Effect of pH on the activity of an enzyme 2. Separation of sugars by Thin Layer chromatography. 3. Continuous evaluation	B.Sc (Hons) Biological Sciences, II Year, Semester III	CBCS C5: Proteins and Enzymes
	ASSIGNMENTS AND MID TERM EXAMS			
NOVEMBER	Theory	Unit 6: cell death and cell renewal: Apoptosis and necrosis - brief outline. Salient features of a transformed cell.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I	CBCS C2: Cell Biology
		Unit 6: Plant regeneration pathways: organogenesis and somatic embryogenesis. Applications of cell and tissue culture and somoclonal variation.	B.Sc. BIOLOGICAL SCIENCE (Hons.) III Year,	CBCS DSE9: Plant Biochemistry
		Unit 5. Phosphoramidite synthesis	PGDMB	PGDMB 102 Recombinant DNA technology
	Practical	Revision of practicals, Mock Practical Examination	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester IV	CBCS C12: Gene Expression and Regulation
		Revision of practicals, Mock Practical Examination	B.Sc. BIOCHEMISTRY (Hons.) II Year, Semester III	CBCS C6: Membrane Biology and Bioenergetics
		Revision of practicals, Mock Practical Examination	B.Sc (Hons) Biological Sciences, II Year, Semester III	CBCS C5: Proteins and Enzymes



ODD SEMESTER WISE TEACHING PLAN 2017-18
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr.Ravindra Varma Polisetty**

Department: **Biochemistry**
Semester : **I/III/V**

Month		Topics	Course	Paper Code/ Name
JULY	Theory			
	Practicals			
	Tutorials			
AUGUST	Theory	Gel filtration chromatography - Principle, Types of gel beads, Slurry making, column packing, determination of void volume, MW determination, columns storage.	PGD	PGDMB101/ Biophysical techniques
		Thin layer chromatography - Principle, systems for separation of various molecules, elution.	GE-2	Proteins and enzymes
		Introduction to proteins - polypeptides, proteins and subunits, conjugated proteins, diversity and function.	SBCH/ SEC-2	Protein purification techniques
	Practicals	Assay of salivary amylase Estimation of blood glucose Visualisation of animal and plant cells Separation of photosynthetic pigments by TLC Extraction of Urease from Jacobean	SBCH GE-5 TBS	Carbohydrate and lipid metabolism Fundamentals of Cell biology and immunology Plant Biochemistry
	Tutorials			
SEPTEMBER	Theory	Ion exchange chromatography - Principle, Types of ion exchangers, properties, selection of ion exchanger, buffers, column packing and development, elution types, flow rate, HPLC, FPLC	PGD	Biophysical techniques / PGDMB101

		Protein isolation methods - salt fractionation, ion exchange, gel permeation, HPLC, SDS-PAGE, IEF	GE-2	Proteins and enzymes
		Ion exchange chromatography	SBCH/SEC-2	Protein purification
	Practicals:	Sugar fermentation of microorganisms - glucose, lactose, aerobic and anaerobic.	SBCH	Carbohydrate and lipid metabolism
		Identification of different stages of mitosis in onion root tip	GE-5	Fundamentals of Cell biology and immunology
		Isolation of organelles by sub cellular fractionation		
		Assay of hydrolytic enzymes - amylase, lipase during germination	TBS	Plant Biochemistry
	Tutorials:			
	Assignment	Assignments		
OCTOBER	Theory:	Affinity Chromatography - Principle, types of ligands, elution methods, metal chelate chromatography, hydrophobic and covalent chromatography	PGD	Biophysical techniques / PGDMB101
		Protein structures - primary, secondary, tertiary and quarternary, Ramachandran maps, protein folding	GE-2	Proteins and enzymes
		Electrophoresis technique	SBCH/SEC-2	Protein purification techniques
	Practicals:	Isolation of lecithin, TLC separation and estimation	SBCH	Carbohydrate and lipid metabolism
		Isolation of cholesterol from egg yolk and its estimation		Fundamentals of Cell biology and immunology
		Isolation of IgG from serum by ion exchange chromatography Ag-Ab interaction by Ouchterlony method	GE-5	Plant Biochemistry
		Estimation of ascorbic acid, phenols, tannins in fruits and vegetables, explant culture	TBS	
	Tutorials:			
	Test	Mid-term tests		
No- VEMBER	Theory:	Gas liquid chromatography - Principle, instrumentation, detectors. Purification of proteins using salts, organic solvents, polymers, dialysis and membrane filtration	PGD	Biophysical techniques / PGDMB101
		Enzymes in medicine and industry	GE-2	Proteins and enzymes
		HPLC method	SBCH/SEC-2	Protein purification techniques
	Practicals:	Mock practicals		
	Tutorials:			



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
 (2017-2018)

Name of the Faculty: Dr. Shalini Sen

Department: Biochemistry

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Admissions	PG Diploma in Mol & Biochem Technol	PGDMB 101 Biophysical Techniques-I
		Admissions		PGDMB 102 Recombinant DNA Technol
		Unit I. Introduction to Model organisms and Mendelism.	BSc.(H) Biochemistry	BCH C-11 Concepts in Genetics
	Practicals	Admissions	PG Diploma in Mol & Biochem Technol	PGDMB L104 Biophysical Techniques-I
		Admissions		PGDMB L105 Recombinant DNA Technol
AUGUST	Theory:	Unit I. Principles of Spectrophotometry	PG Diploma in Mol & Biochem Technol	PGDMB 101 Biophysical Techniques-I
		Unit I. Restriction enzymes, Methylases, Other DNA modifying enzymes Restriction Mapping		PGDMB 102 Recombinant DNA Technol
		1. Applications of Mendel's principles and chromosomal basis of heredity Unit 4. Genetic definition of a gene	BSc.(H) Biochemistry	BCH C-11 Concepts in Genetics
	Practicals:	1. Spectrophotometric analysis of nucleic acids at 260 nm. 2. Protein estimation at 280nm.	PG Diploma in Mol & Biochem Technol	PGDMB L104 Biophysical Techniques-I
	1. Preparation and sterilization of LB broth and agar. 2. Obtaining isolated colonies of <i>E. coli</i> 3. To study the growth curve of <i>E. coli</i>		PGDMB L105 Recombinant DNA Technol	

SEPTEMBER	Theory	<p>Theory of Electrophoresis: Polyacrylamide gel and Agarose gel electrophoresis</p> <p>1.Covalent linkage of DNA to vectors 2.Genomic and cDNA libraries</p> <p>Unit5. Genetics of bacteria and viruses</p>	<p>PGDiploma in Mol &Biochem Technol</p> <p>BSc.(H) Biochemistry</p>	<p>PGDMB 101 Biophysical Techniques-I</p> <p>PGDMB 102 Recombinant DNA Technol</p> <p>BCH C-11 Concepts in Genetics</p>
	Practicals:	<p>1.Effect of solvent perturbation on absorption</p> <p>1.Isolation of chromosomal DNA of E.coli 2.Isolation of plasmid DNA by alkaline lysis (Mini and maxi preparation)</p>	<p>PGDiploma in Mol &Biochem Technol</p>	<p>PGDMB L104 Biophysical Techniques-I</p> <p>PGDMB L105 Recombinant DNA Technol</p>
	<u>Assignment :</u>	From syllabus covered till Mid september		
OCTOBER	Theory:	<p>1.Plant tissue culture 2.Animal cell culture</p> <p>1.DNA libraries continued 2.Library screening</p> <p>Unit9. Organelle heredity Unit10. Chromosomal aberrations</p>	<p>PGDiploma in Mol &Biochem Technol</p> <p>BSc.(H) Biochemistry</p>	<p>PGDMB 101 Biophysical Techniques-I</p> <p>PGDMB 102 Recombinant DNA Technol</p> <p>BCH C-11 Concepts in Genetics</p>
	Practicals:	<p>1.Agarose gel electrophoresis 2.Estimation of molecular weight of DNA with Agarose gel electrophoresis</p> <p>1.Isolation of plasmid DNA by boiling lysis 2.Digestion of plasmid DNA by restriction digestion</p>	<p>PGDiploma in Mol &Biochem Technol</p>	<p>PGDMB L104 Biophysical Techniques-I</p> <p>PGDMB L105 Recombinant DNA Technol</p>
	<u>Test</u>	From syllabus covered till mid October		

NOVEMBER	Theory:	Revision of syllabus 1.Library screening continued 2.Revision of syllabus Unit10. Chromosomal aberrations (continued)	PGDiploma in Mol &Biochem Technol BSc.(H) Biochemistry	PGDMB 101 Biophysical Techniques-I PGDMB 102 Recombinant DNA Technol BCH C-11 Concepts in Genetics
	Practicals:	Value added experiment on human cell culture 1.Recovery of DNA from low-melting temperature agarose gel 2.Repeat experiments	PGDiploma in Mol &Biochem Technol	PGDMB L104 Biophysical Techniques-I PGDMB L105 Recombinant DNA Technol



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARCOLLEGE

2017-2018
ODD SEMESTER

Name of the Faculty: Dr.N. Latha

Department: BIOCHEMISTRY

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY 2017	Theory	Nutritional disorders: Overview of major and minor nutrient components in the diet. Balanced diet and the concept of RDA.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Fatty acid oxidation Digestion, mobilisation and transport of cholesterol and triacyl glycerols, fatty acid transport to mitochondria	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
	Practicals	Building blocks of lipids - fatty acids, glycerol, ceramide. Storage lipids - triacyl glycerol and waxes	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
		Anthropometric measurements for normal and high risk individuals and identifications for Kwashiorkor, Marasmus and Obesity & Case studies	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Safety measures in laboratories.	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
AUGUST 2017	Theory	Introduction to protein folding and proteasome removal of misfolded proteins; etiology and molecular basis for Alzheimer's, Prion diseases, Huntington's Chorea, sickle cell anemia, Thalassemia	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		β oxidation of saturated, unsaturated, odd and even numbered and branched chain fatty acids, regulation of fatty acid oxidation, Peroxisomal oxidation, ω oxidation, ketone bodies metabolism, ketoacidosis	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
		Structural lipids in membranes – glycerophospholipids, galactolipids and sulpholipids, sphingolipids and sterols, structure, distribution and role of membrane lipids. Plant steroids. Lipids as signals, cofactors and pigments	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	Practicals:	Estimation of glycosylated hemoglobin & Estimation of homocysteine levels in serum	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases

		P reparation of normal and molar solutions & Preparation of Buffers	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
SEPTEMBER 2017	Theory	In born errors in metabolism: PKU, Alkaptonuria, Maple syrup urine disease; Receptor and transport defects: Cystic fibrosis, Long QT syndrome, familial hypercholesterolemia, Achondroplasia.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Fatty acid synthesis: Fatty acid synthase complex. Synthesis of saturated, unsaturated, odd and even chain fatty acids and regulation.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
		Structure and active forms of water soluble and fat soluble vitamins, deficiency diseases and symptoms, hypervitaminosis	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	Practicals	Diagnostic profile for assessment of CVS and Diabetes mellitus using case studies	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Qualitative tests for carbohydrates, lipids, amino acids, proteins and nucleic acids	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	<u>Test</u>	Nutritional Biochemistry & Protein Folding Disorders	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Fatty Acid oxidation, & Ketone bodies	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
		Lipids –Structure & Function	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	OCTOBER 2017	Theory	Nutrient deficiencies; Kwashiorkor and Marasmus, Scurvy, beri beri, pellagra and B12 deficiency, Xerophthalmia and Night blindness, Vitamin D deficiency, Vitamin K deficiency. Discuss with relation to biochemical basis for symptoms	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V
Biosynthesis of eicosanoids, cholesterol, steroids and isoprenoids Synthesis of prostagladins, leukotrienes and thromboxanes. Synthesis of cholesterol, regulation of cholesterol synthesis. Synthesis of steroids and isoprenoids. Synthesis of membrane lipids Synthesis of membrane phospholipids in			B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
Amino Acids: Structure and classification, physical, properties of amino acids			B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life

	Practicals:	Presentations for different types of cancer	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Separation of amino acids/ sugars/ bases by thin layer chromatography & Titration Curves	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	<u>Assignment</u>	Case Studies	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Assignment on Fatty acid synthesis & Lipid Storage Diseases	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
		Amino Acids , Peptides	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
	NOVEMBER 2017	Theory:	Hemoglobinopathies and clotting disorders.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V
biosynthesis of plasmalogens, sphingolipids and glycolipids, lipid storage diseases. Integration of Metabolism			B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	C5: Metabolism of Carbohydrate and Lipids
Chemical and optical properties of amino acids			B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life
Practicals:		Revision of practicals, Mock Practical Examination	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	DSE-1 Molecular Basis of Non-Infectious Diseases
		Estimation of Vitamin C , Revision of practicals, Mock Practical Examination	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	C1: Molecules of Life



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty:

Dr. Sarika Yadav

Department: **BIOCHEMISTRY**

Semester: I/III/V (2017-18) (ODD SEMESTER)

Month		Topics	Course	Paper Code/Name	
July	Theory	Introduction to Biomembranes: Composition of Biomembranes - prokaryotic, eukaryotic, neuronal and subcellular membranes. Study of membrane proteins.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics	
	Practical	Features of enzyme catalysis, superior catalytic power.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes	
		Properties and Composition of Cell Membrane; Structure of Nuclear Envelope; Nuclear Pore Complex;	B. Sc. (H) Biochemistry III Yr, Sem V	BCH DSE-6: ADVANCED CELL BIOLOGY	
		Practicals			
		Determination of CMC of Triton/ SDS by measuring conductivity	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics	
		Glucose tolerance test.	B. Sc (H) Biol Sc, II Yr, Sem III	CBCS C-7: HORMONE: BIOCHEMISTRY AND FUNCTION (PRACTICALS)	
	NO ADMISSION	P.G. Diploma in Molecular & Biochemical Technology (Sem I)	PGD MBL 106: Immunology - I		
August	Theory	Fluid mosaic model with experimental proof. Monolayer, planer bilayer and liposomes as model membrane systems. Polymorphic structures of amphiphilic molecules in aqueous solutions - micelles and bilayers. CMC, critical packing parameter. Membrane asymmetry. Macro and micro domains in membranes. Membrane skeleton, lipid rafts, caveolae and tight junctions.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics	
		General mechanisms of catalysis. Nomenclature; Principles of reaction rates, order of reactions and equilibrium constants.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes	
		Transport Across Nuclear Envelope; Regulation of Nuclear Protein Import and Export. Overview of The Endomembrane System; Targeting, modification and sorting of Proteins From And Into Endoplasmic Reticulum; Synthesis And Targeting Mitochondrial Protein;	B. Sc. (H) Biochemistry III Yr, Sem V	BCH DSE-6: ADVANCED CELL BIOLOGY	

	Practical:	Determination of CMC of Triton by measuring Conductivity, Determination of CMC of SDS by PAN dye method, Determination of CMC of Triton by PAN dye method, Effect of lipid composition on the permeability of a lipid monolayer.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Estimation of serum T4.	B. Sc (H) Biol Sc, II Yr, Sem III	CBCS C-7: HORMONE: BIOCHEMISTRY AND FUNCTION (PRACTICALS)
		Immunodiffusion : Single radial immunodiffusion, double immunodiffusion, Staining of precipitin bands in gel	P.G. Diploma in Mol & Biochemical Technology (Sem I)	PGD MBL 106 : Immunology - I
September	Theory	RBC membrane architecture. Membrane dynamics: Lateral, transverse and rotational motion of lipids and proteins. Techniques used to study membrane dynamics - FRAP, TNBS labeling etc. Transition studies of lipid bilayer, transition temperature. Membrane fluidity, factors affecting membrane fluidity. Thermodynamics of transport, Simple diffusion and facilitated diffusion, Passive transport - glucose transporter, anion transporter and porins. Primary active transporters - P type ATPases, V type ATPases, F type ATPases.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Derivation of Michaelis-Menten equation. Significance of Km and Vmax.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Chloroplast Proteins And Peroxisomal Proteins; Mechanism Of Vesicular Transport; Coat Proteins And Vesicle Budding; Vesicle Fusion; Targeting Of Proteins To Membranes; Receptor Mediated Endocytosis	B. Sc. (H) Biochemistry III Yr, Sem V	BCH DSE-6: ADVANCED CELL BIOLOGY
	Practical	Separation of photosynthetic pigments from spinach leaves by TLC, Separation of photosynthetic pigments Spirulina by TLC, RBC ghost cell preparation, Separation of RBC membrane proteins by SDS-PAGE, Study of the effect of detergents on RBC membranes	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Estimation of serum Ca ²⁺ ; Estimation of serum electrolytes	B. Sc (H) Biol Sc, II Yr, Sem III	CBCS C-7: HORMONE: BIOCHEMISTRY AND FUNCTION (PRACTICALS)
		Rocket Immunoelectrophoresis, Staining of precipitin bands in gel, Counter Immunoelectrophoresis, Rocket immunoelectrophoresis, Crossed immunoelectrophoresis, Quantitative precipitation test	P.G. Diploma in Molecular & Biochemical Technology (Sem I)	PGD MBL 106 : Immunology - I

October	Theory	Secondary active transporters – lactose permease, Na ⁺ -glucose symporter. ABC family of transporters - MDR, CFTR. Group translocation. Ion channels - voltage-gated ion channels (Na ⁺ /K ⁺ voltage-gated channel), ligand-gated ion channels (acetyl choline receptor), aquaporins, bacteriorhodopsin. Ionophores - valinomycin, gramicidin. Types of vesicle transport and their function - clathrin, COP I and COP II coated vesicles. (TEST and ASSIGNMENTS)	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Catalytic efficiency parameters. Competitive and mixed inhibitions. Kinetics and diagnostic plots. (TEST and ASSIGNMENTS)	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Development and causes Of Cancer; Genetic Basis of Cancer; Oncogenes, Tumor Viruses; Molecular Approach to Cancer Treatment. (TEST and ASSIGNMENTS)	B. Sc. (H) Biochemistry III Yr, Sem V	BCH DSE-6: ADVANCED CELL BIOLOGY
	Practical	Isolation of mitochondria from liver and assay of marker enzyme SDH, Study photosynthetic O ₂ evolution in Hydrilla plant, Isolation of chloroplast from spinach leaves, estimation of chlorophyll and photosynthetic activity.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		HCG based pregnancy test; Case studies.	B. Sc (H) Biol Sc, II Yr, Sem III	CBCS C-7: HORMONE: BIOCHEMISTRY AND FUNCTION (PRACTICALS)
		Identification of human blood groups and Rh factor, Passive agglutination using inert particles like SRBC, latex particles, Inhibition of agglutination using latex particles, Preparation of lymphocytes from spleen and blood	P.G. Diploma in Molecular & Biochemical Technology (Sem I)	PGD MBL 106: Immunology - I
November	Theory	Molecular mechanism of vesicular transport. Membrane fusion. Receptor mediated endocytosis of transferrin.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Types of irreversible inhibitors.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Ultracentrifugation, Fluorescence Microscopy- FACS, FRET, Confocal Microscopy, Electron Microscopy,	B. Sc. (H) Biochemistry III Yr, Sem V	BCH DSE-6: ADVANCED CELL BIOLOGY
	Practical	Revision of practicals, Mock Practical Examination	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Revision of practicals, Mock Practical Examination	B. Sc (H) Biol Sc, II Yr, Sem III	CBCS C-7: HORMONE: BIOCHEMISTRY AND FUNCTION (PRACTICALS)

		Revision of practicals, Mock Practical Examination	P.G. Diploma in Molecular & Biochemical Technology (Sem I)	PGD MBL 106 : Immunology - I
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SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr. Vandana Malhotra**

Department: **BIOCHEMISTRY**

Semester: **I/III/V**

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unit 2: Unique properties, weak interactions in aqueous systems, ionization of water, buffers, water as a reactant and fitness of the aqueous environment.	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Unit 1 Basic design of metabolism Autotrophs, heterotrophs, metabolic pathways, catabolism, anabolism, ATP as energy currency, reducing power of the cell.	B.Sc. BIOCHEMISTRY (Hons), II Year, Semester III	BCH C-5: Metabolism of Carbohydrate and Lipids
		Unit 1 Biosynthesis of RNA in prokaryotes RNA polymerases, transcription cycle in bacteria, sigma factor, bacterial promoters, identification of DNA binding sites by DNA footprinting, the three stages of RNA synthesis, initiation, elongation and termination, rho-dependent and rho-independent termination. Inhibitors of transcription and applications as anti-microbial drugs.	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
	Practicals	1. To view permanent slides 2. Introduction to Microscope parts	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-2: Cell Biology
		1. Assay of Acid Phosphatase and calculation of enzyme activity in Mung Bean crude lysate	B.Sc. BIOCHEMISTRY (Hons), II Year, Semester III	BCH SEC: 2 Protein Purification Techniques
		1. Determination of RNA concentration by Orcinol method	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
AUGUST	Theory	Unit 2: Water (contd) water as a reactant and fitness of the aqueous environment. Unit 3: Carbohydrates and Glycobiology Monosaccharides - structure of aldoses and ketoses, ring structure of sugars, conformations of sugars, mutarotation, anomers, epimers and enantiomers, structure of biologically important sugar derivatives, oxidation of sugars. Reactions of monosaccharides with acid and alkali	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Unit 1 Basic design of metabolism (Contd.) Unit 2 Glycolysis Glycolysis - a universal pathway, reactions of glycolysis, fermentation, fates of pyruvate, feeder pathways for glycolysis, galactosemia.	B.Sc. BIOCHEMISTRY (Hons), II Year, Semester III	BCH C-5: Metabolism of Carbohydrate and Lipids

		Unit 1 (Contd.) Biosynthesis of RNA in prokaryotes	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
	Practicals:	1. Visualization of animal and plant cell by methylene blue. 2. To visualize gram positive and negative cells using gram staining 3. Identification of different stages of mitosis in onion root tip.	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-2: Cell Biology
		1. Sample Preparation (Mung Bean) and assay of Acid Phosphatase activity 2. Partial purification of Mung Bean crude extract to purify Acid phosphatase by 30-70% Ammonium sulphate fractionation followed by Dialysis 3. Purification of the ammonium sulphate fractionated Acid Phosphatase fraction by Ion Exchange Chromatography 4. Enzyme assay and Protein Determination by Lowry's method and final calculation of Fold purification of Acid Phosphatase	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC: 2 Protein Purification Techniques
		1. To isolate total RNA from Bacteria 2. To isolate total nucleic acid from plants 3. Growth curve of E. coli	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
	Assignments	Derivation of Aldose and Ketose series of monosaccharides by Kiliani Fischer Synthesis	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Different types of Sigma factors and their functions	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
SEPTEMBER	Theory	Unit 3: Carbohydrate & Glycobiology (Contd) Formation of disaccharides, reducing and non-reducing disaccharides, Polysaccharides – homo- and heteropolysaccharides, structural and storage polysaccharides.	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Unit 3 Gluconeogenesis and pentose phosphate pathway Synthesis of glucose from non-carbohydrate sources, reciprocal regulation of glycolysis and gluconeogenesis, pentose phosphate pathway and its importance.	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III	BCH C-5: Metabolism of Carbohydrate and Lipids
		Unit 4 Glycogen metabolism Glycogenesis and glycogenolysis, regulation of glycogen metabolism, glycogen storage diseases.		

		Unit 7 Regulation of gene expression in prokaryotes Principles of gene regulation, negative and positive regulation, concept of operons, regulatory proteins, activators, repressors, DNA binding domains, regulation of lac operon and trp operon, induction of SOS response, synthesis of ribosomal proteins, regulation by genetic recombination, transcriptional regulation in λ bacteriophage.	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
	Practicals	1. Micrographs of different cell components (dry lab). 2. Sub-cellular fractionation. 3. Continuous Evaluation	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-2: Cell Biology
		1. Affinity Chromatography 2. SDS PAGE Electrophoresis 3. Continuous Evaluation	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC:2 Protein Purification Techniques
		1. Diauxic growth curve effect of <i>E. coli</i> 2. Effect of inhibitors on protein synthesis 3. Continuous Evaluation	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
		Assignments And tests	Integration of glycolysis and glucose synthesis pathways	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III
		Class Tests will be given in all subjects to review understanding.		
OCTOBER	Theory	Unit 3: (Contd) Carbohydrate and Glycobiology Unit 7: Vitamins	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Unit 5 Citric acid cycle Production of acetyl CoA, reactions of citric acid cycle, anaplerotic reactions, amphibolic role, regulation of citric acid cycle, glyoxalate pathway, coordinated regulation of glyoxalate and citric acid pathways.	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III	BCH C-5: Metabolism of Carbohydrate and Lipids
		Unit 6 Protein targeting and degradation Post translational modifications, glycosylation, signal sequences for nuclear transport, bacterial signal sequences, import of proteins by receptor mediated endocytosis, specialized systems for protein degradation.	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation

	Practicals	1. Visualization of nuclear fraction by acetocarmine stain. 2. Staining and visualization of mitochondria by Janus green stain. 3. Continuous Evaluation	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	BCH C-2: Cell Biology
		1. Demonstration for HPLC 2. Repeat any pending or unsuccessful experiment 3. Continuous Evaluation	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC:2 Protein Purification Techniques
		1. Repeat any pending or unsuccessful experiment 2. Continuous Evaluation	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
NOVEMBER	Theory:	Unit 7: Vitamins	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	BCH C-1: Molecules of Life
		Unit 6 Synthesis of carbohydrates Calvin cycle, regulation of calvin cycle, regulated synthesis of starch and sucrose, photorespiration, C4 and CAM pathways, synthesis of cell wall polysaccharides, integration of carbohydrate metabolism in plant cell.	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III	BCH C-5: Metabolism of Carbohydrate and Lipids
		Unit 6 Protein targeting and degradation Post translational modifications, glycosylation, signal sequences for nuclear transport, bacterial signal sequences, import of proteins by receptor mediated endocytosis, specialized systems for protein degradation.	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation
	Practicals:	1. Revision 2. Mock Practical Exam	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	BCH C-2: Cell Biology
		1. Revision 2. Mock Practical Exam	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC:2 Protein Purification Techniques
		1. Revision 2. Mock Practical Exam	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCH C-12: Gene Expression and Regulation



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Geeta Jayaram Sodhi

Department: Sociology

Semester: I

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	Thinking Sociologically	Core Course-01	Introduction to Sociology I
	Practical	NA	NA	NA
	Tutorial	Individualistic and Sociological Perspectives	Core Course-01	Introduction to Sociology I
AUGUST	Theory	1.Emergence of Sociology and Social Anthropology 2. Sociology and History 3.Sociology and	Core Course-01	Introduction to Sociology I
	Practical	NA	NA	NA
	Tutorial	Factors shaping the development of Sociology and important contributions	Core Course-01	Introduction to Sociology I
SEPTEMBER	Theory	1.Sociology and Social Anthropology 2. Individual and Group	Core Course-01	Introduction to Sociology I

	Practical	NA	NA	NA
	Tutorial	Relationship between Sociology and Social Anthropology	Core Course-01	Introduction to SociologyI
	<u>Assignment</u>	Discuss how the Sociological Perspective is different from the individualistic one.	Core Course-01	Introduction to SociologyI
OCTOBER	Theory	1.Associations and Institutions 2. Culture and Society	Core Course-01	Introduction to SociologyI
	Practical	NA	NA	NA
	Tutorial	Difference between culture and Society; Features and Content of Culture	Core Course-01	Introduction to SociologyI
	<u>Mid-Semester Examination</u>	Topics: 1.Sociological Perspective 2.Sociology and Anthropology 3. Individual and Group	Core Course-01	Introduction to SociologyI
NOVEMBER	Theory	Social Change	Core Course-01	Introduction to SociologyI
	Practical	NA	NA	NA
	Tutorial	Theories of Social Change	Core Course-01	Introduction to SociologyI



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Geeta Jayaram Sodhi

Department: Sociology

Semester: V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Interlinking Work and Industry	DSC 4	Sociology of Work
	Practical	NA	NA	NA
	Tutorial	Classical Approaches to Work	DSC 4	Sociology of Work
AUGUST	Theory	1. Interlinking Work and Industry 2. Industrialism	DSC 4	Sociology of Work
	Practical	NA	NA	NA
	Tutorial	Industrialisation and Industrialism Theories	DSC 4	Sociology of Work

SEPTEMBER	Theory	1.Post-Industrial Society 2. Information Society 3. Alienation	DSC 4	Sociology of Work
	Practical	NA	NA	NA
	Tutorial	Critical Analysis of Information Society	DSC 4	Sociology of Work
	<u>Assignment</u>	Critically examine the classical approaches to work.	DSC 4	Sociology of Work
OCTOBER	Theory	1.Gender dimension of Work 2. Unpaid Work and Forced Labour 3. Work in the Informal Sector	DSC 4	Sociology of Work
	Practical	NA	NA	NA
	Tutorial	Features of the Informal Sector	DSC 4	Sociology of Work
	<u>Mid-Semester Examination</u>	Topics:1. Industrialism 2.Post-industrial Society		Sociology of Work

NOVEMBER	Theory	Risk, Hazard and Disaster	DSC 4	Sociology of Work
	Practical	NA	NA	NA
	Tutorial	Gender dimension of Work	DSC 4	Sociology of Work



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. ABHIJIT KUNDU

Department: Sociology

Semester: III

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	Scope And Development of Political Sociology	HONOURS-III Sem	Core Course-05 POLITICAL SOCIOLOGY
	Practical	NA	NA	NA
	Tutorial	Context of Political Sociology	Same	Same
AUGUST	Theory	Development of Political Anthropology Concepts of Power and Authority	Same	Same
	Practical	NA	NA	NA
	Tutorial	Critical Review of Power and Legitimacy	Same	Same
SEPTEMBER	Theory	-State , Governance and Citizenship -Elites and Ruling Classes	Same	Same

	Practical	NA	NA	NA
	Tutorial	-State as an Idea -Historical development of Citizenship - Ruling Class and Elite	Same	Same
	<u>Assignment</u>	Discuss the scope and development of Political anthro and sociology	Same	Same
OCTOBER	Theory	State, Democracy and Totalitarianism	Same	Same
	Practical	NA	NA	NA
	Tutorial	-Types of Democracy - Totalitarianism -State and Civil Society	Same	Same
	<u>Mid-Semester Examination</u>	TOPIC : State , Democracy and Civil Society	Same	Same
NOVEMBER	Theory	Everyday State and Local Structures of Power	Same	Same
	Practical	NA	NA	NA
	Tutorial	Local Level Politics	Same	Same



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. ABHIJIT KUNDU

Department: Sociology

Semester: ODD

Month		Topics	Course	Paper Code/Name
JULY	Theory	Materialist Conception of History	Honours V Sem	Core Course- 11/ Sociological Thinkers -I
	Practical	NA	NA	NA
	Tutorial	Biographical Sketch of Karl Marx	Same	Same
AUGUST	Theory	-Materialism and Dialectics -Capitalist Mode of Production	Same	Same
	Practical	NA	NA	NA
	Tutorial	-Base and Superstructure - Commodity and Surplus Value	Same	Same

SEPTEMBER	Theory	Max Weber- Methodology - Protestant Ethics and Capitalism	Same	Same
	Practical	NA	NA	NA
	Tutorial	-Social Action and Ideal Types.	Same	Same
	<u>Assignment</u>	Discuss the materialist interpretation of History	Same	Same
OCTOBER	Theory	Emile Durkheim and Positivism -Social Fact	Same	Same
	Practical	NA	NA	NA
	Tutorial	- Characteristics of Social Facts _ Suicide as Social Facts _ Max Weber and Emile Dirckheim	Same	Same
	<u>Mid-Semester Examination</u>		Same	Same

NOVEMBER	Theory	Types of Suicide	Same	Same
	Practical	NA	NA	NA
	Tutorial	Individual and Society	Same	Same



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nabanipa Bhattacharjee

Department: Sociology

Semester: I

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	Introducing Sociology of India; India as an object of knowledge; colonial discourse	Core Course-02	Sociology of India I
	Practical	NA	NA	NA
	Tutorial	Colonial discourse	Core Course-02	Sociology of India I
AUGUST	Theory	Nationalist discourse; introduction to subaltern studies	Core Course-02	Sociology of India I
	Practical	NA	NA	NA
	Tutorial	Colonial discourse; nationalist discourse	Core Course-02	Sociology of India I
SEPTEMBER	Theory	Subaltern critique; concept of caste system; critique of caste; agrarian classes	Core Course-02	Sociology of India I

	Practical	NA	NA	NA
	Tutorial	subaltern reading of dominant historiographies; features and critique of caste; agrarian structure	Core Course-02	Sociology of India I
	<u>Assignment</u>	Write an essay on the subaltern critique of elite historiographies	Core Course-02	Sociology of India I
OCTOBER	Theory	Village studies in India; profile and situation of Indian tribes; kinship system in India	Core Course-02	Sociology of India I
	Practical	NA	NA	NA
	Tutorial	Understanding the Indian village; contemporary issues and problems of Indian tribes; North and South Indian kinship	Core Course-02	Sociology of India I
	<u>Mid-Semester Examination</u>	Topics: colonial discourse, caste, kinship	Core Course-02	Sociology of India I
NOVEMBER	Theory	Industry and labour; religion and society in India	Core Course-02	Sociology of India I
	Practical	NA	NA	NA
	Tutorial	Mapping the industrial working class; religious practices of Hindus, Sikhs and Muslims	Core Course-02	Sociology of India I



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nabanipa Bhattacharjee

Department: Sociology

Semester: III (July-December, 2017)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Interface of the social and the religious; understanding the religious sociologically	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	Durkheimian understanding of social and religious; beliefs and practices	Core Course 06	Sociology of Religion
AUGUST	Theory	Sacred and profane in formulating the religious; asceticism and capitalist accumulation; theodicy and eschatology; introduction to church-state relations	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	Australian totemism; religious ethic and capitalist spirit; suffering and redemption	Core Course 06	Sociology of Religion

SEPTEMBER	Theory	Judaism and human emancipation; individual, collective and the religious; understanding sacred, myth and ritual	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	State, church, emancipation; Malinowski on solitude and religious experience; myth	Core Course 06	Sociology of Religion
	<u>Assignment</u>	With reference to Durkheim discuss how the religious is formulated	Core Course 06	Sociology of Religion
OCTOBER	Theory	Srinivas and Durkheim on rituals; time and space; religion and rationality; concept of prayer	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	Ritual complex of Coorgs; time-space and the Nuer; Tambiah on religion and science	Core Course 06	Sociology of Religion
	<u>Mid-Semester Examination</u>	With reference to Durkheim discuss how the religious is formulated	Core Course 06	Sociology of Religion

NOVEMBER	Theory	Maussian reading of prayer; craft of religious; body and the religious	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	Practice of prayer; Ginzburg on craft; hands and dual symbolic classification	Core Course 06	Sociology of Religion



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Padma Priyadarshini

Department: Sociology

Semester: BA (Hons.) V

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	1.The Logic of Social Research A. Sociological Imagination	Core Course-12	Sociological Research Methods I
	Practical	NA	NA	NA
	Tutorial	How does the Sociological Imagination contribute to the understanding of our society? Ref: C. Wright Mills	Core Course-12	Sociological Research Methods I
AUGUST	Theory	B.The Problem Of Objectivity C. Reflexivity	Core Course-12	Sociological Research Methods I
	Practical	NA	NA	NA
	Tutorial	Why is there a problem of objectivity in the social sciences? Ref: Rules of Sociological Method. Durkheim.	Core Course-12	Sociological Research Methods I
SEPTEMBER	Theory	2. Methodological Perspectives A. Comparative Method	Core Course-12	Methods of Sociological Research I

	Practical	NA	NA	NA
	Tutorial	Reflexivity amounts to critical self introspection. Ref: Gouldner	Core Course-12	Methods of Sociological Research I
	Mid Sem Exam	Topics: Sociological Imagination, Objectivity and Reflexivity	Core Course-12	Methods of Sociological Research I
OCTOBER	Theory	B. Feminist Method 3. Modes of Enquiry A. Theory and Research Ref: R.K. Merton	Core Course-12	Methods of Sociological Research I
	Practical	NA	NA	Methods of Sociological Research I
	Tutorial	The Comparative Method is a method par excellence. Ref: Radcliffe Brown Andre Beteille	Core Course-12	Methods of Sociological Research I
	Assignment	Research Project using both quantitative and qualitative techniques; primary sources of data collection.	Core Course-12	Methods of Sociological Research I
NOVEMBER	Theory	Analyzing Data: Quantitative and Qualitative Ref: Alan Bryman	Core Course-12	Methods of Sociological Research I
	Practical	NA	NA	NA
	Tutorial	Is there a distinct feminist method? Ref: Sandra harding	Core Course-12	Methods of Sociological Research I



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Padma Priyadarshini

Department: Sociology

Semester: BA (Hons.) V

Month		Topics	Course	Paper Code/Name
JULY	Theory	1. Envisioning Environmental Sociology Nature and Scope of Environmental Sociology	DSE - 03	Environmental Sociology
	Practical	Movie Screened "An Inconvenient Truth"	DSE 03	Environmental Sociology
	Tutorial	What are the fundamental debates of Environmental Sociology Ref: Michael Bell Hannigan	DSE-03	Environmental Sociology
AUGUST	Theory	B. Realist-Constructionist Debate 2. Approaches A. Treadmill of Production B. Ecological Modernization	DSE 03	Environmental Sociology
	Practical	Movie Screened: "Chipko Movement as it stands today"	DSE 03	Environmental Sociology
	Tutorial	Realism and Constructionism do not represent two opposed strands of thought. Ref: Leahy Evanoff	DSE 03	Environmental Sociology

SEPTEMBER	Theory	C. Risk D. Eco Feminism and Feminist Environmentalism E. Political ecology	DSE 03	Environmental Sociology
	Practical	Movie Screened: "Narmada Bachao Andolan: Its social, economic and Environmental impact explained."	DSE 03	Environmental Sociology
	Tutorial	Relevance of approaches to the study of Environmental Sociology Ref: Schnaiberg and Gould, Mol and Spaargaren, Beck, Shiva and Agarwal, Robbins.	DSE 03	Environmental Sociology
	<u>Mid Sem Exam</u>	Topics: What is environmental sociology? Realism and Constructionism	DSE 03	Environmental Sociology
OCTOBER	Theory	3. Environmental Movements in India A. Chipko B. Narmada Ref: Guha Khagram	DSE 03	Environmental Sociology
	Practical	Movie Screened: 1. "Seeds of Life" 2. "Should India have genetically modified crops?"	DSE 03	Environmental Sociology
	Tutorial	Can the Chipko Movt be designated as a woman's movement?	DSE 03	Environmental Sociology
	<u>Assignment</u>	Class Presentations and Viva Topics: Chipko, Narmada, Anti-mining, Seed.	DSE 03	



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: DR. URMI BHATTACHARYYA

Department: SOCIOLOGY

Semester: I

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	-Course Introduction: Indian Society, ideas of civilization, perspectives, modernity, social institutions	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	Guiding students to interpret the theoretical views and historical experiences	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
AUGUST	Theory	-Indian Civilization, -Approaches, anthropological and historical -Colonialism, Modernity and modern civilization	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA

	Tutorial	<p>Critically looking at concepts of Brahmanical Ideology and Regional Identities</p> <ul style="list-style-type: none"> -Approaches to the Study of Indian Civilization -Cultural and Historical geography -The Shaping of the Civilization: Views of the Past -Cultural and Structural History: Nineteenth and twentieth centuries <p>Guiding students on how to write the term assignment</p>	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
SEPTEMBER	Theory	<ul style="list-style-type: none"> -Tracing the idea of the village from pre-colonial times to the present. -Town and Centres in the integration of Indian Civilization -Regions and their relation to the study of history and society 	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	<ul style="list-style-type: none"> -Critically reading essays on the Village in Focus -Networks and Centres in the Integration of Indian Civilization -Regions Subjective and Objective: their Relation to the Study of Modern Indian History and Society 	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	<u>Assignment</u>	Write an essay on the continuity and transformations as witnessed in any particular social institution in Indian society/history by reviewing a text (as discussed with the course teacher)	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities

OCTOBER	Theory	Social Institutions: -Caste -Religion	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	Discussion and writing on: Caste in India: -Caste and Cultivation, Debates, -Personhood, Rank -Popular Hinduism	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	<u>Mid-Semester Examination</u>	Write a note on the Idea of the Indian Village	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
NOVEMBER	Theory	Social Institutions: Ethnicity -Family and Gender	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	-Basic Conflict between Religious Traditions -The Construction of Gender -Sylvia Vatuk's study of South Indian Muslims Declaration of IA results	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: DR. URMI BHATTACHARYYA

Department: SOCIOLOGY

Semester: I

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	History of Sociology Relationship of Sociology with other Social Sciences: -Anthropology	B. A. (Prog.) Core Course 01	Introduction to Sociology
	Practical	NA	NA	NA
	Tutorial	Enlightenment, industrial revolution, positivism, founding fathers of sociology	B. A. (Prog.) Core Course 01	Introduction to Sociology
AUGUST	Theory	Relationship of Sociology with other Social Sciences: -Anthropology -Psychology -History Introduction to concepts	B. A. (Prog.) Core Course 01	Introduction to Sociology
	Practical	NA	NA	NA
	Tutorial	Discussing the scope of sociology and its relation to other social science disciplines: similarities and differences in perspectives and methodology What are concepts?	B. A. (Prog.) Core Course 01	Introduction to Sociology

SEPTEMBER	Theory	<p>Sociological Concepts:</p> <ul style="list-style-type: none"> -Status -Role -Groups <p>The concept of culture</p>	B. A. (Prog.) Core Course 01	Introduction to Sociology
	Practical	NA	NA	NA
	Tutorial	<p>Discussing concepts:</p> <ul style="list-style-type: none"> -Status and Role, in relation to class and power; what is status; what are social roles? -Different types of groups -The significance of the concept of culture in sociology 	B. A. (Prog.) Core Course 01	Introduction to Sociology
	<u>Assignment</u>	<p>Explain how culture is conceptualized in sociology and its contribution to the social structure.</p>	B. A. (Prog.) Core Course 01	Introduction to Sociology

OCTOBER	Theory	Sociological Concepts: -Socialization - The concepts of Structure and Function	B. A. (Prog.) Core Course 01	Introduction to Sociology
	Practical	NA	NA	NA
	Tutorial	Discussing the concept of socialization and the kinds, causes, effects. Interdependence of structure and function	B. A. (Prog.) Core Course 01	Introduction to Sociology
	<u>Mid-Semester Examination</u>	Write a note on the history of sociology as a discipline.	B. A. (Prog.) Core Course 01	Introduction to Sociology
NOVEMBER	Theory	Social Control Social Change	B. A. (Prog.) Core Course 01	Introduction to Sociology
	Practical	NA	NA	NA
	Tutorial	Measures of social control Types and dimensions of social change	B. A. (Prog.) Core Course 01	Introduction to Sociology



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: DR. URMI BHATTACHARYYA

Department: SOCIOLOGY

Semester: III

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	Introduction: learning the virtues of repetition Re-Reading and Re-writing in academics	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	Practical	NA	NA	NA
	Tutorial (N.A.) <i>Take-away weekly assignments</i>	-Read a short and summarize it in one paragraph; -Re-read the same text and re-write the summary twice based on discussions on content and form.	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
AUGUST	Theory	Techniques for Reading academic texts: -Titles -Section headings -Summaries Introduction and Conclusion	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	Practical	NA	NA	NA
	Tutorial (N.A.) <i>Take-away weekly assignments</i>	Reading various kinds of writings, to understand how to construct arguments and build a framework Choosing a topic for the end term assignment	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
SEPTEMBER	Theory	Stages of argument and its structuring, Distribution of emphasis on writing Background knowledge	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology

	Practical	NA	NA	NA
	Tutorial (N.A.) <i>Take-away weekly assignments</i>	Reading various kinds of writings, to understand how to construct arguments and build a framework, followed by writing summaries and reports on the same. Finalizing the topic for end term assignment	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	<u>Assignment</u>	Observe a particular context for a continued span of time and then write an essay on, explaining what you observed and understood.	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
OCTOBER	Theory	Writing paragraphs: building prose Sentences, punctuation, balance, continuity Paraphrasing and plagiarism	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	Practical	NA	NA	NA
	Tutorial (N.A.) <i>At-home assignment</i>	Working on the review essay, problematising the issue, paraphrasing arguments	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	<u>Mid-Semester Examination</u>	Write the review essay on the topic decided upon by you with reference to articles and books.	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
NOVEMBER	Theory	Citation	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology
	Practical	NA	NA	NA
	Tutorial (N.A.) <i>Class discussion</i>	Essay feedback Declaration of IA results	B. A. (H) SEC	Reading, Writing and Reasoning for Sociology



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Antasa Vairagya

Department: Sociology

Semester: III BA(Hons)

Month		Topic(s)	Course	Paper Code/Name
JULY	Theory	Gendering Sociology- Jackson and Scott	Core Course-07	Sociology of Gender
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
AUGUST	Theory	Gendering Sociology- Liz Stanley, Marilyn Strathern; Gender, Sex, Sexuality- Sherry Ortner, Rubin Gayle, Newton Esther	Core Course-07	Sociology of Gender
	Practical	NA	NA	NA
	Tutorial	Politics of Sexuality; Nature Vs Culture debate in Gender	Core Course-07	Sociology of Gender
	<u>Assignment</u>	How does Anthropology accommodate Gender Studies	Core Course-07	Sociology of Gender

SEPTEMBER	Theory	Production of Masculinity and Femininity- Halberstam Judith, Alter Joseph, Patricia Uberoi; Class, Caste- WalbySylvia	Core Course-07	Sociology of Gender
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	Practical	NA	NA	NA
	Tutorial	Masculinity and Femininity	Core Course-07	Sociology of Gender
	<u>Field Work</u>	Gender Relations	Core Course-07	Sociology of Gender
OCTOBER	Theory	Caste, Class- Leela Dube, Sharmila Rege; Family, Work- Whitehead, Rajni Palriwal; Power and Subordination- Candace	Core Course-07	Sociology of Gender
	Practical	NA	NA	NA
	Tutorial	Caste and Class; Family	Core Course-07	Sociology of Gender
	<u>Mid-Semester Examination</u>	Topics: caste, family	Core Course-07	Sociology of Gender
NOVEMBER	Theory	Resistance and Movements- Kandiyoti Deniz, Hill-Collins Patricia, Radha Kumar	Core Course-07	Sociology of Gender
	Practical	NA	NA	NA
	Tutorial	Feminist Movements	Core Course-07	Sociology of Gender



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Antasa Vairagya

Department: Sociology

Semester: III BA (Hons)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unpacking Development- Henry Bernstein, Wolfgang Sachs, Rist Gilbert	Generic Elective 03	Rethinking Development
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
AUGUST	Theory	Unpacking Development- J. Ferguson; Theorizing Development- David Harrison, Andre Frank, Michael Redclift	Generic Elective 03	Rethinking Development
	Practical	NA	NA	NA
	Tutorial	Modernization and Development	Generic Elective 03	Rethinking Development

SEPTEMBER	Theory	Theorizing Development- Nalini Vishwanathan, Kalyan Sanyal, Amartya Sen;	Generic Elective 03	Rethinking Development
	Practical	NA	NA	NA
	Tutorial	Environment and Development; Development as Freedom	Generic Elective 03	Rethinking Development
	<u>Assignment</u>	How is Development considered to be Freedom	Generic Elective 03	Rethinking Development
OCTOBER	Theory	Developmental Regimes in India- Pranab Bardhan, Partha Chatterjee; Issues in Developmental Praxis- T. Scudder	Generic Elective 03	Rethinking Development
	Practical	NA	NA	NA
	Tutorial	Political Economy of Development	Generic Elective 03	Rethinking Development
	<u>Mid-Semester Examination</u>	With reference to Pranab Bardhan and Partha Chatterji explain how there has been an influence of	Generic Elective 03	Rethinking Development

NOVEMBER	Theory	Issues in Developmental Praxis- Aradhana Sharma	Generic Elective 03	Rethinking Development
	Practical	NA	NA	NA
	Tutorial	Gender and Development	Generic Elective 03	Rethinking Development



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Antasa Vairagya

Department: Sociology

Semester: III (July-December, 2018) BA (Hons)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Introduction	Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
AUGUST	Theory	Gender Construction in Hindu Society,; South Asian Household	Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	Gender seen as a social construction	Generic Elective 01	Indian Society: Images and Realities

SEPTEMBER	Theory	Social Change among South Indian Muslims; State and Politics in India	Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
NOVEMBER	Theory	Recasting Women	Generic Elective 01	Indian Society: Images and Realities
	Tutorial	Household and Politics	Generic Elective 01	Indian Society: Images and Realities
	Practical		NA	NA
	<u>Assignment</u>	On Gender and Household	Generic Elective 01	Indian Society: Images and Realities
	Tutorial	Colonial History	Generic Elective 01	Indian Society: Images and Realities
OCTOBER	Theory	Understanding Caste	Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA
	Tutorial	Forms of Solidarity	Generic Elective 01	Indian Society: Images and Realities



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nupurnima Yadav

Department: Sociology

Semester: 5th B.A Program (August-December, 2017)

Paper: Generic Elective 01 Polity and Society in India

Month		Topics	Course	Paper Code/Name
AUGUST	Theory	The political history of Independent India. State and democratic problem	Generic elective 01	Polity and Society in India
	Practical	NA	NA	NA
	Tutorial	Social character of Indian State	Generic elective 01	Polity and Society in India

SEPTEMBER	Theory	Political Economy, Para Political Systems Indian Nationalism And Caste based politics in India	Generic elective 01	Polity and Society in India
	Practical	NA	NA	NA
	Tutorial	Idea of sub- nationalism	Generic elective 01	Polity and Society in India
	<u>Assignment</u> <u>(10 Marks)</u>	Discuss the social character of Indian state through its political history.		
OCTOBER	Theory	Party system and political participation	Generic elective 01	Polity and Society in India
	Practical	NA	NA	NA
	Tutorial	Vernacularization of politics in India	Generic elective 01	Polity and Society in India
	<u>Mid-Semester</u> <u>Examination (10</u> <u>Marks)</u>			

NOVEMBER	Theory	Protest and Resistance in Indian politics	Generic elective 01	Polity and Society in India
	Practical	NA	NA	NA
	Tutorial	Mobilizations at the local level.	Generic elective 01	Polity and Society in India



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nupurnima Yadav

Department: Sociology

Semester: 5th B.A Prog. (August- December, 2017)

Paper: Discipline Specific Elective 01 Religion and Society

Month		Topics	Course	Paper Code/Name
AUGUST	Theory	Understanding Religion Explanation of Sociology of Religion: Meaning and Scope	DSE 01	Religion and Society
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA

SEPTEMBER	Theory	Introduction of the concepts of Sacred and Profane	DSE 01	Religion and Society
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Assignment</u> <u>(10 Marks)</u>			
OCTOBER	Theory	Explain dominant tenets of Hinduism. The advent of Islam in India	DSE 01	Religion and Society
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Mid-Semester Exam</u> <u>(10 Marks)</u>			

NOVEMBER	Theory	Discussing the emergence of Sikhism Buddhism in India	DSE 01	Religion and Society
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nupurnima Yadav

Department: Sociology

Semester: 5th B.A Prog. (August- December, 2017)

Paper: SEC 03 Society through the Visual

Month		Topics	Course	Paper Code/Name
AUGUST	Theory	Introduction to Sociological understanding of Visual -Visual Anthropology -Visual Sociology	SEC 03	Society through the Visual
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA

SEPTEMBER	Theory	Reflexivity Film Making as an ethnographic research	SEC 03	Society through the Visual
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Assignment (10 Marks)</u>			
OCTOBER	Theory	New techniques of observations and research Hypermedia	SEC 03	Society through the visual
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Mid-Semester Project (10 Marks)</u> <u>Presentation (10)</u>			

NOVEMBER	Theory	Qualitative research and positioning women researchers in visual anthropology	SEC 03	Society through the visual
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA



SEMESTER WISE TEACHING PLAN (2017-18)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nupurnima Yadav

Department: Sociology

Semester: 3rd B.A Prog. (August- December, 2017)

Paper: Core Course 03 Sociological Theories

Month		Topics	Course	Paper Code/Name
AUGUST	Theory	Introduction to Weber's Biography Ideal types Social Action	C 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA

SEPTEMBER	Theory	Types of Authority	C 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Assignment</u> <u>(10 Marks)</u>			
OCTOBER	Theory	Brief Biography of Karl Marx Materialist conception of History	C 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA
	<u>Mid-Semester</u> <u>Exam (10 Marks)</u>			

NOVEMBER	Theory	Class and Class struggle	C 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	NA	NA	NA



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Vivekananthan

Department : Tamil

CBCS Semester : I

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Indian Language (Tamil)</u> Semantic Changes	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Types and Explanation of Folk songs	B.A Prog Tamil Discipline	62081108
	Theory	<u>MIL Communications (Tamil)</u> Interview	B.A Prog Tamil AECC	72082807
August	Theory	<u>History of Indian Language (Tamil)</u> Phonological and Morphological Changes	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> <u>Folk songs and Myth</u>	B.A Prog Tamil Discipline	62081108
	Theory	<u>MIL Communications (Tamil)</u> Group Discussion and Conversation	B.A Prog Tamil AECC	72082807

Month	Theory/Practical	Topics	Course	Paper code/Name
September	Theory	<u>History of Indian Language (Tamil)</u> Syntactical Changes	B.A Prog Tamil Language	62081104
	Assignment	History of Tamil Language (I Part)		
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Myth and literature	B.A Prog Tamil Discipline	62081108
	Assignment	<u>Folk Songs and Myth</u>		
	Theory	<u>MIL Communications (Tamil)</u> Letter writing	B.A Prog Tamil AECC	72082807
	Assignment	Interview and Letter writing		
October	Theory	<u>History of Indian Language (Tamil)</u> History of Scripts	B.A Prog Tamil Language	62081104
	Mid-Term Test	<u>History of Tamil Language</u>		
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Mythology	B.A Prog Tamil Discipline	62081108
	Mid-Term Test	<u>Oral Traditions</u>		
	Theory	<u>MIL Communications (Tamil)</u> Comprehension	B.A Prog Tamil AECC	72082807
	Mid-Term Test	<u>Tamil Communications</u>		
November	Theory	<u>History of Indian Language (Tamil)</u> History of Tamil Scripts	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Growth of literature from Myth		
	Theory	<u>MIL Communications (Tamil)</u> <u>Practical writing of Tamil Communications</u>	B.A Prog Tamil AECC	72082807



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty : Dr. S. Vivekananthan
Department : Tamil
CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Ancient Tamil Lierature</u> Three Sangams	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Cultural Behavior	B.A Prog Tamil Discipline	62081327
August	Theory	<u>History of Ancient Tamil Lierature</u> Ettut-Thokai and Pathuppaattu	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Customs and Social aspects of Tamils	B.A Prog Tamil Discipline	62081327
September	Theory Assignment	<u>History of Ancient Tamil Lierature</u> Ettut-Thokai and Pathuppaattu Sangam Literature	B.A Prog Tamil Language	62081325
	Theory Assignment	<u>Cultural Behavior of the Tamils</u> Customs and Social aspects of Tamils Festivals of the Tamils	B.A Prog Tamil Discipline	62081327

Month	Theory/Practical	Topics	Course	Paper code/Name
October	Theory Mid Term Test	<u>History of Ancient Tamil Lierature</u> Ethical Literature and major five Epics History of Ancient Tamil Lierature	B.A Prog Tamil Language	62081325
	Theory Mid Term Test	<u>Cultural Behavior of the Tamils</u> Festivals and Rituals Cultural Behavior of the Tamils	B.A Prog Tamil Discipline	62081327
November	Theory	<u>History of Ancient Tamil Lierature</u> Minor five Epics	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Ballads and cultural issues	B.A Prog Tamil Discipline	62081327



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty : Dr. S. Vivekananthan

Department : Tamil

CBCS Semester : V

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>Selected Texts : Novel & Short Story (Tamil)</u> History of Tamil short Story	B.A Prog Tamil Discipline	62087504
August	Theory	<u>Selected Texts : Novel & Short Story (Tamil)</u> First Five Short Stories	B.A Prog Tamil Discipline	62087504
September	Theory Assignment	<u>Selected Texts : Novel & Short Story (Tamil)</u> Second Five Short Stories Modern Short Stories in History of short story Literature	B.A Prog Tamil Discipline	62087504
October	Theory Mid Term Test	<u>Selected Texts : Novel & Short Story (Tamil)</u> <u>Last Two Short stories and cultural reflections of</u> <u>the fictions</u> <u>Short story and Novel</u>	B.A Prog Tamil Discipline	62087504
November		<u>Selected Texts : Novel & Short Story (Tamil)</u> Sociological perspectives in Short stories	B.A Prog Tamil Discipline	62087504



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Vivekananthan

Department : Tamil

CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Ancient Tamil Literature</u> History of Three Sangams and Tholkaappiyam	B.Com Prog Tamil Language	52081325
August	Theory	<u>History of Ancient Tamil Literature</u> Sangam Literature	B.Com Prog Tamil Language	52081325
September	Theory Assignment	<u>History of Ancient Tamil Literature</u> Ethical Literature Epic Literature	B.Com Prog Tamil Language	52081325
October	Theory Mid Term Test	<u>History of Ancient Tamil Literature</u> Major five Epics History of Ancient Tamil Literature	B.Com Prog Tamil Language	52081325
November	Theory	<u>History of Ancient Tamil Literature</u> Minor five Epics	B.Com Prog Tamil Language	52081325



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty : Dr. S. Vivekananthan
Department : Tamil
CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>Specific Literary Terms</u> Techniques in Tamil literature	B.A Hons Tamil G.E	12085325
August	Theory	<u>History of Ancient Tamil Literature</u> Kurippu in Tamil literature	B.A Hons Tamil G.E	12085325
September	Theory Assignment	<u>History of Ancient Tamil Literature</u> Ullurai in Tamil Literature Ullurai and Iraichi in Tamil literature	B.A Hons Tamil G.E	12085325
October	Theory Mid Term Test	<u>History of Ancient Tamil Literature</u> Ullurai in Tholkaappiyam Techniques in Tamil literature : Ullurai Iraichi	B.A Hons Tamil G.E	12085325
November	Theory	<u>History of Ancient Tamil Literature</u> Kurippu and Ullurai in Sangam literature	B.A Hons Tamil G.E	12085325



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Seenivasan

Department : Tamil

CBCS Semester : I

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Indian Language (Tamil)</u> Sources of Tamil Language History	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> <u>Folk Traditions in Tamil</u>	B.A Prog Tamil Discipline	62081108
	Theory	<u>MIL Communications (Tamil)</u> History of Translation	B.A Prog Tamil AECC	72082807
August	Theory	<u>History of Indian Language (Tamil)</u> Dravidian Languages and Tamil	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Definition and Types of Folk Tales	B.A Prog Tamil Discipline	62081108
	Theory	<u>MIL Communications (Tamil)</u> History and Types of Public Speech	B.A Prog Tamil AECC	72082807

Month	Theory/Practical	Topics	Course	Paper code/Name
September	Theory Assignment	<u>History of Indian Language (Tamil)</u> Special Features in South Dravidian Languages History of Tamil Language (II Part)	B.A Prog Tamil Language	62081104
	Theory Assignment	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Folk-lore and Culture of Tamils <u>Folk Tales and Culture of the Tamils</u>	B.A Prog Tamil Discipline	62081108
	Theory Assignment	<u>MIL Communications (Tamil)</u> Business Letter writing in Tamil Public Speech in Tamil	B.A Prog Tamil AECC	72082807
October	Theory Mid-Term Test	<u>History of Indian Language (Tamil)</u> Dialects in Tamil <u>History of Tamil Language</u>	B.A Prog Tamil Language	62081104
	Theory Mid-Term Test	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Customs and Culture through Folk Literature <u>Oral Traditions</u>	B.A Prog Tamil Discipline	62081108
	Theory Mid-Term Test	<u>MIL Communications (Tamil)</u> <u>Practical Translations</u> <u>Tamil Communications</u>	B.A Prog Tamil AECC	72082807
November	Theory	<u>History of Indian Language (Tamil)</u> Types of Dialects	B.A Prog Tamil Language	62081104
	Theory	<u>Oral Traditions : Folk Tales, Songs and Myth</u> Analysis of Tamil Literary text through Folk tale	B.A Prog Tamil Discipline	62081108
	Theory	<u>MIL Communications (Tamil)</u> <u>Practical Public Speeches in Tamil</u>	B.A Prog Tamil AECC	72082807



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Seenivasan
Department : Tamil
CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Ancient Tamil Literature</u> Tamil Bakthi Literature	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Definition of Culture	B.A Prog Tamil Discipline	62081327
August	Theory	<u>History of Ancient Tamil Literature</u> Nayanmars in Bakthi Literature	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Life style of Tamils	B.A Prog Tamil Discipline	62081327
September	Theory Assignment	<u>History of Ancient Tamil Literature</u> Azhvars in Bakthi Literature Bakthi Literature in Tamil	B.A Prog Tamil Language	62081325
	Theory Assignment	<u>Cultural Behavior of the Tamils</u> Social of Tamils Deities of the Tamils	B.A Prog Tamil Discipline	62081327

Month	Theory/Practical	Topics	Course	Paper code/Name
October	Theory Mid Term Test	<u>History of Ancient Tamil Literature</u> Saiva and Vaishnava Literature History of Ancient Tamil Literature	B.A Prog Tamil Language	62081325
	Theory Mid Term Test	<u>Cultural Behavior of the Tamils</u> History of Culture through Literature Cultural Behavior of the Tamils	B.A Prog Tamil Discipline	62081327
November	Theory	<u>History of Ancient Tamil Literature</u> Minor Literature in Tamil	B.A Prog Tamil Language	62081325
	Theory	<u>Cultural Behavior of the Tamils</u> Tamil Medicines	B.A Prog Tamil Discipline	62081327



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Seenivasan

Department : Tamil

CBCS Semester : V

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>Selected Texts : Novel & Short Story (Tamil)</u> History of Tamil Novel Literature	B.A Prog Tamil Discipline	62087504
August	Theory	<u>Selected Texts : Novel & Short Story (Tamil)</u> Characterization of the Novel THAGANAM	B.A Prog Tamil Discipline	62087504
September	Theory Assignment	<u>Selected Texts : Novel & Short Story (Tamil)</u> Social History of the workers in Grave yards Thaganam Novel in History of Tamil Novel Literature	B.A Prog Tamil Discipline	62087504
October	Theory Mid Term Test	<u>Selected Texts : Novel & Short Story (Tamil)</u> <u>Plot of Thaganam Novel</u> <u>Modern Short story and Thaganam Novel</u>	B.A Prog Tamil Discipline	62087504
November		<u>Selected Texts : Novel & Short Story (Tamil)</u> Cultural Reflections of Society in Thaganam Novel	B.A Prog Tamil Discipline	62087504



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty : Dr. S. Seenivasan

Department : Tamil

CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>History of Ancient Tamil Lierature</u> History of Bakthi Literature	B.Com Prog Tamil Language	52081325
August	Theory	<u>History of Ancient Tamil Lierature</u> History of Nayanmars	B.Com Prog Tamil Language	52081325
September	Theory Assignment	<u>History of Ancient Tamil Lierature</u> History of Aazhvars Bakthi Literature	B.Com Prog Tamil Language	52081325
October	Theory Mid Term Test	<u>History of Ancient Tamil Lierature</u> Thevaaram Thiruvacakam and Naalaayira Divya Prabandam History of Ancient Tamil Lierature	B.Com Prog Tamil Language	52081325
November	Theory	<u>History of Ancient Tamil Lierature</u> History of Minor Literature	B.Com Prog Tamil Language	52081325



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty : Dr. S. Seenivasan

Department : Tamil

CBCS Semester : III

Month	Theory/Practical	Topics	Course	Paper code/Name
July	Theory	<u>Specific Literary Terms</u> Definition and Usage of Literary Techniques in Tamil Literature.	B.A Hons Tamil G.E	12085325
August	Theory	<u>History of Ancient Tamil Lierature</u> Padimam in Tamil literature	B.A Hons Tamil G.E	12085325
September	Theory Assignment	<u>History of Ancient Tamil Lierature</u> Iraichi in Tamil Literature Iraichi and Padimam in Tamil literature	B.A Hons Tamil G.E	12085325
October	Theory Mid Term Test	<u>History of Ancient Tamil Lierature</u> Iraichi in Tholkaappiyam Techniques in Tamil literature : Ullurai Iraichi	B.A Hons Tamil G.E	12085325
November	Theory	<u>History of Ancient Tamil Lierature</u> Padimam and Iraichi in Sangam literature	B.A Hons Tamil G.E	12085325



SEMESTER WISE TEACHING PLAN
(July-Dec 2017)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Aditi Kothari-Chhajer

Department: BOTANY

Semester : I/III/V

Month		Topics	Course	Paper
JULY	Theory	Spices-Introduction, Economic importance with special reference to fennel	B.Sc. (H) Botany Sem III	Economic Botany
		Cell Fractionation- Differential and density Gradient centrifugation, sucrose and CsCl ₂ density gradient	B.Sc. (H) Botany Sem V	Analytical techniques in Plant Sciences
		Unit 2 : Photosynthesis –an introduction. Photosynthetic equation, structure of chloroplasts	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Practicals	<ul style="list-style-type: none"> Black Pepper (Habit, Sections) 	B.Sc. (H) Botany Sem III	ECONOMIC BOTANY
		<ul style="list-style-type: none"> Models of viruses T-Phage and TMV, Line drawing/Photograph of Lytic and I,ysogenic Cycle. Types of Bacteria from 	B.Sc.(P.) Life Science Sem I	Biodiversity
		<ul style="list-style-type: none"> Demonstration of etiolation and de-etiolation 	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Tutorials			
AUGUST	Theory:	Spices-Introduction , Economic importance with special reference to black pepper, clove and saffron	B.Sc. (H) Botany Sem III	ECONOMIC BOTANY
		Analytical centrifugation, ultracentrifugation, marker enzymes Unit 3: Radioisotopes-introduction, autoradiography, pulse-chase experiment, uses of autoradiography in biological research	B.Sc. (H) Botany Sem V	DSE-1
		Light and Dark Reactions, Mechanism of Photolysis of water and oxygen evolution, Q- cycle, O ₂ -evolving complex	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Practicals:	<ul style="list-style-type: none"> Clove (Habit, sections) Fennel (Habit, Sections) Coffee (Plant Specimen, beans) Tea (Plant Specimens, Section cutting through tea leaves) Coconut (T.S. Nut, Habit Sketch) 	B.Sc. (H) Botany Sem III	Economic Botany
		<ul style="list-style-type: none"> Gram staining Study of vegetative and reproductive structures or Nostoc, Chlamydomonas (electron 9 micrographs), Oedogonium, Vaucheria, Fucus* 	B.Sc.(P.) Life Science Sem I	Biodiversity

		<ul style="list-style-type: none"> • Rhizopus and Penicillium: Asexual stage from temporary mounts and sexual structures through permanent slides. • Alternaria: Specimens/photographs and tease mounts. 		
		<ul style="list-style-type: none"> • Chromatographic Separation of chloroplast pigments • Hills reaction and study of the effect of light intensity • Molls Half leaf experiment (Light and CO₂) 	B.sc. (H) Biol.Sc. Sem I	Light and Life
SEPTEMBER	Theory:	Essential Oils- Comparison of Essential Oils with Fatty Oils. General Account, Different types of Extraction Methods and Uses of Essential Oils	B.Sc. (H) Botany Sem III	Economic Botany
		<ul style="list-style-type: none"> • Alternaria: Specimens/photographs and tease mounts. • Puccinia: Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves; section/tease mounts of spores on Wheat and permanent slides of both the hosts. • Agaricus: Specimens of button stage and full grown mushroom; Sectioning of gills of Agaricus. • Lichens: Study of growth forms of lichens (crustose, foliose and fruticose) • Mycorrhiza: ecto mycorrhiza and endo mycorrhiza (Photographs) • Marchantia- 	B.Sc.(P.) Life Science Sem I	Biodiversity
		Reaction Centres ,C3, C4 and CAM plants and their comparative account, Photoautotrophs, Photoheterotrophs and chemoautotrophs	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Practicals:	<ul style="list-style-type: none"> • Mustard (Plant Specimen, Seeds, tests of Fats on Crushed seeds) • Potato- Habit Sketch, Tuber Morphology, TS through Tuber to show localization of starch grains, W.M Starch Grains, Micro-chemical tests • Soybean (habit, Fruit, seed structure, microchemical tests) • Groundnut (habit, Fruit, seed structure, microchemical tests) • Sugarcane (Habit Sketch, Cane juice, Microchemical tests) 	B.Sc. (H) Botany Sem III	Economic Botany
		<ul style="list-style-type: none"> • Funaria • Selagineilla • Equisetum • Pteris 	B.Sc.(P.) Life Science Sem I	Biodiversity

		<ul style="list-style-type: none"> Demonstration of oxygen liberation during photosynthesis using <i>Hydrilla</i>. Mesurement of Light using Luxmeter Blackmanns Law of limiting factors (using <i>Hydrilla</i>) 	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Tutorials:			
OCTOBER	Theory:	Drug yielding plants:therapeutic and habit forming drugs with special reference to <i>Cinchona</i> , <i>Digitalis</i> and <i>Papaver</i>	B.Sc. (H) Botany Sem III	Econom ic Botany
		Mass spectrometry,X-Ray diffraction, X-Ray crystallography, Electrophoresis (AGE, PAGE, SDS-PAGE), Blotting Techniques (Northern, Southern and Western)	B.Sc. (H) Botany Sem V	DSE-1
		Oxygenic and Anoxygenic Photosynthesis, Photoperiodism: SDP,LDP and DNP plants, Vernalization	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Practicals:	<ul style="list-style-type: none"> Cereals – Wheat and Rice- Micro-chemical tests, sections Habit sketch of <i>Rosa</i>, <i>Vetiveria</i>, <i>santalum</i> and <i>Eucalyptus</i> Specimens, photographs of tapping of Rubber Tobacco-Specimens and Products 	B.Sc. (H) Botany Sem III	Econom ic Botany
		<ul style="list-style-type: none"> Cycas- morphology (coralloid roots, bulbil, leaf), t.s. coralloid root, t.s. rachis, v.s. leaflet, v.s. microsporophyll, w.m. spores (temporary slides), l.s. ovule, t.s. root (permanent slide) Pinus- morphology (long and dwarf shoots, w.m. dwarf shoot, male and female), w.m. dwarf shoot, t.s. needle, t.s. stem,, l.s./t.s. male cone, w.m. microsporophyll, w.m. microspores (temporary slides), l.s. female cone, t.l.s. & r.l.s. stem (permanent slide). 	B.Sc.(P.) Life Science Sem I	Biodive rsity
		<ul style="list-style-type: none"> Study of red and blue light on seed germination and development of pigments Study of photoautotrophic and photosynthetic bacteria, chloroplast, quantasome, bioluminescent plants 	B.sc. (H) Biol.Sc. Sem I	Light and Life
		Tutorials:		
NOVEMBER	Theory:	Drug yielding plants: with special reference to <i>Cannabis</i>	B.Sc. (H) Botany Sem III	Econom ic Botany
		FISH, Chromosome Banding and Chromosome Painting	B.Sc. (H) Botany Sem V	DSE-1
		Discussion of previous years question papers and revision of concepts	B.sc. (H) Biol.Sc. Sem I	Light and Life
	Practicals:	<ul style="list-style-type: none"> Specimens of <i>Digitalis</i>, <i>Papaver</i> and <i>Cannabis</i> <i>Tectona</i>, <i>Pinus</i>- Specimen and TS of young stem 	B.Sc. (H) Botany Sem III	Econom ic Botany
		<ul style="list-style-type: none"> Completion of any unfinished practicals 	B.Sc.(P.) Life Science Sem I	Biodive rsity
		<ul style="list-style-type: none"> Revision of experiments and Mock Practical 	B.sc. (H) Biol.Sc. Sem I	Light and Life

	Tutorials:			
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SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Pooja Gokhale Sinha

Department: Botany

Course: B. Sc. (H) Botany, Semester: V

Paper Title: Reproductive Biology of Angiosperms

MONTH		Topics	Course	Paper Code/Name
JULY	Theory	<ul style="list-style-type: none"> Structure of flower Structure and function of Anther and its wall layers 	B.Sc. (H) Botany	Reproductive Biology of Angiosperms
	Practicals	<ul style="list-style-type: none"> Observe variation in structure and organization of floral parts of different flowers. Observe stage-wise variation in anatomy and ultrastructure of anther and tapetum through permanent slides and electron micrographs 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
AUGUST	Theory:	<ul style="list-style-type: none"> Pollen Biology: Microsporogenesis, MGU Pollen morphology and NPC system Pollen viability, germination and abnormality Structure of ovule Female gametophyte and megasporogenesis Organization of embryo sac and FGU 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
	Practicals:	<ul style="list-style-type: none"> Observe Pollen grains of various plants Pollen germination by using different medium of germination Structure of female gametophyte by permanent slides and electron micrographs 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
SEPTEMBER	Theory:	<ul style="list-style-type: none"> Types and pollination and associated adaptations Pollen-pistil interaction and process of fertilization Self incompatibility: types and genetic mechanisms Methods to overcome incompatibility with examples 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms

	Practicals	<ul style="list-style-type: none"> • Observe intra-ovarian pollination, test tube fertilization through photographs/ videos • Observe different pollination mechanisms through photographs/ videos and field visits 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
OCTOBER	Theory:	<ul style="list-style-type: none"> • Endosperm: types • Embryo: Types of embryogeny and associated structures • Seed: structure, dispersal mechanism • Polyembryony and apomixis 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
	Practicals	<ul style="list-style-type: none"> • Dissection of embryo at various stages of development from <i>Cucumis</i> and <i>Calliandra</i> • Study of seed dispersal mechanism 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
NOVEMBER	Theory:	<ul style="list-style-type: none"> • Germline transformation: Techniques • Applications in biotechnology 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms
	Practicals	<ul style="list-style-type: none"> • Dissection of endosperm 	B. Sc. (H) Botany	Reproductive Biology of Angiosperms

**SEMESTER WISE
TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Pooja Gokhale

Department: Botany

Course: B.Sc. (H) Biological Sciences

Paper: Functional Ecology

MONTH		Topics	Course	Paper Code/Name
JULY	Theory	Introduction to Ecology History and overview of school of thoughts	B.Sc. (H) Bio. Sci.	Functional Ecology
	Practicals	Introduction to community Analysis and plotting of survivorship curves	B.Sc. (H) Bio. Sci.	Functional Ecology
	Tutorials			
AUGUST	Theory:	Levels of organization Community: Characteristics, structure	B.Sc. (H) Bio. Sci.	Functional Ecology
	Practicals:	<ul style="list-style-type: none"> • Plotting of Species- area curve by minimal quadrat size • Frequency, density and abundance of herbaceous vegetation of SVC campus 	B.Sc. (H) Bio. Sci.	Functional Ecology

SEPTEMBER	Theory	Raunkiers life forms Community function	B.Sc. (H) Bio. Sci.	Functional Ecology
	Practical	Soil analysis by rapid field tests Analysis of physical characteristics of soil Principle and function of field instruments	B.Sc. (H) Bio. Sci.	Functional Ecology
OCTOBER	Theory	Succession: types and principles Hydrosere, xerosere and mesosere	B.Sc. (H) Bio. Sci.	Functional Ecology
	Practical	Analysis of water samples to determine DO and BOD	B.Sc. (H) Bio. Sci.	Functional Ecology
NOVEMBER	Theory	Introduction to ecosystem: Structure and function Nutrient cycling and energy flow	B.Sc. (H) Bio. Sci.	Functional Ecology



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. S Venkat Kumar

Department: Commerce

Semester: I/III/V

Month	Type of Class	Topics	Course	Paper Code/Name
JULY 2017	Theory	1. Indian Contract Act, 1872: Meaning, characteristics and kinds 2. Definition of Advertisement and features	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
	Practicals	Not Applicable		
	Tutorials	1. Case laws – mailing students get acquainted with legal aspects 2. Discuss on contemporary issues	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
AUGUST 2017	Theory	1. Indian Contract Act, 1872: Essentials of valid contract – offer and acceptance, consideration with case studies. 2. Advertisement – budgeting, media selection, message development, copy layout	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
	Practicals	Not applicable		
	Tutorials	1. Detailed explanation to case studies vis-à-vis rules 2. Matters pertaining to budgeting, media and message development	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
SEPTEMBER 2017	Theory	1. Indian Contract Act, 1872: contractual capacity, free consent, legality of objects with case studies 2. Measuring advertising effectiveness, pre and post-testing techniques, advertising agency, ethical & legal aspects of advertising, personal selling – process and handling objections	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
	Practicals	Not applicable		
	Tutorials	1. Interpretation of provisions of certain important rules 2. Case studies in personal selling	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising & personal selling
	Assignment	1. Assignment on topics covered with Dr. Sindhumani Bag 2. Project/ assignment on advertising	1. B.Com. (Hons) - I 2. B.Com. (Hons) - V	1. BCH 1.3 Business laws 2. CH 5.4 (d) Advertising

Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER 2017	Theory	<ol style="list-style-type: none"> Indian contract Act, 1872 – Void agreements, contingent, quasi contracts, discharge and special contract i.e. indemnity vs guarantee; Bailment and Agency with simultaneous quotes from relevant case studies Sales planning & control along with answering to objections etc. 	<ol style="list-style-type: none"> B.Com. (Hons) - I B.Com. (Hons) - V 	& personal selling <ol style="list-style-type: none"> BCH 1.3 Business laws CH 5.4 (d) Advertising & personal selling
	Practicals	Not applicable		
	Tutorials	<ol style="list-style-type: none"> Make students – write relevant contemporary case studies Specific contemporary issues on advertising & Personal selling 	<ol style="list-style-type: none"> B.Com. (Hons) - I B.Com. (Hons) - V 	<ol style="list-style-type: none"> BCH 1.3 Business laws CH 5.4 (d) Advertising & personal selling
	Test	<ol style="list-style-type: none"> In the 3rd week on all topics covered for both I semester and V semester 	<ol style="list-style-type: none"> B.Com. (Hons) - I B.Com. (Hons) - V 	<ol style="list-style-type: none"> BCH 1.3 Business laws CH 5.4 (d) Advertising & personal selling
Month	Type of Class	Topics	Course	Paper Code/Name
NOVEMBER 2017	Theory	<ol style="list-style-type: none"> The Sale of Goods Act, 1930 – sale and agreement to sell, conditions and warranties, transfer of ownership, unpaid seller Sales budgeting, quotas and management of sales forces 	<ol style="list-style-type: none"> B.Com. (Hons) - I B.Com. (Hons) - V 	<ol style="list-style-type: none"> BCH 1.3 Business laws CH 5.4 (d) Advertising & personal selling
	Practicals	Not applicable		
	Tutorials	<ol style="list-style-type: none"> Contemporary case studies on sale and dispute origin Clarification on questions of total aspects relating to advertising and personal selling 	<ol style="list-style-type: none"> B.Com. (Hons) - I B.Com. (Hons) - V 	<ol style="list-style-type: none"> BCH 1.3 Business laws CH 5.4 (d) Advertising & personal selling



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2017-18)

Name of the Faculty: Mrs. Sunita Chhabra

Department: Commerce

Semester: 3rd

Month		Topics	Course	Paper Code/Name
July – August 2017	Theory	<ul style="list-style-type: none"> • Concept; Management functions; Coordination. • Types of Plans; Strategic Planning: Process, Importance, Limitations, Growth Strategies – Internal and External. • Environmental Analysis – Internal and External, SWOT/TOWS/WOTS-UP, BCG Matrix, Competitor Analysis 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • Process of Planning • Nature of Management • Single use plan and their Significance • Horizontal and Vertical Integration 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
September 2017	Theory	<ul style="list-style-type: none"> • Decision Making: Concept, Importance, Group Decision Making, Process, Individual Decision Making, Perfect and Bonded Rationality, Techniques (Qualitative, Quantitative, MIS, DSS) • Organising: Process, Span of Management, Different types of Authority, Line Staff Functional, Decentralisation, and Delegation 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • SWOT, TOWS, BCG Matrix • Business Environment - External factor • Bonded Rationality • MIS, DSS 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
October 2017	Theory	<ul style="list-style-type: none"> • Formal and Informal organization; Principles of Organising; Types of Organising structure. • Motivation: Concept, Importance, Intrinsic and Extrinsic, Major Motivation Theories – Maslow's, Herzberg's, McGregor's X and Y, Ouchi's Z 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications

	Tutorials	<ul style="list-style-type: none"> • Span of Management • Delegation – Process and Problems • Organising Structure – Matrix and Project • Motivation Theories – Maslow’s and Herzberg’s 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
	Test	<ul style="list-style-type: none"> • Unit II – Planning • Unit IV – Staffing and Directing 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
November 2017	Theory	<ul style="list-style-type: none"> • Control, Process, Principles, Major Techniques, Ratio Analysis, ROI, Budgetary Control, EVA, MVA, PERT, CPM. 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • Motivation Theory – X and Y and Theory Z • Two factor Theory of Motivation • Control Processes • Techniques of Control – ROI, Ratio Analysis etc. 	B.Com. (Hons.)	Paper BCH 3.3: Semester – III Management Principles and Applications



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2017-18)

Name of the Faculty: Mrs. Sunita Chhabra

Department: Commerce

Semester: 5th

Month		Topics	Course	Paper Code/Name
July – August 2017	Theory	<ol style="list-style-type: none"> 1. Introduction: Meaning, Nature and scope of marketing; Evolution of marketing concept and modern marketing concept; Marketing mix. 2. Marketing Environment- macro and micro environmental concepts; Consumer buying process; Factors influencing consumer buying decisions. 3. Market segmentation – meaning, benefits, and Bases of segmentation; Positioning – meaning and importance; Major bases of positioning a product 	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	<ol style="list-style-type: none"> 1. Nature of marketing. 2. Difference between marketing and selling. 3. Marketing mix and its components. 4. Marketing Environment – explain customer supplier, social cultural technological environment. 		
September 2017	Theory	<ol style="list-style-type: none"> 1. Product: Concept, Product classification; Major product decisions: Product attributes Branding, Packaging and labeling; After-sales service; Product life cycle, new product development. 2. Pricing: Significance, factors affecting price determination, major pricing methods; pricing policies and strategies. 3. Promotion: Nature and importance, promotion mix, Promotion tools, advertising personal selling, public relation, sales promotion and publicity. 	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	<ol style="list-style-type: none"> 1. Dimensions of product in 5 layers. 2. Branding. 3. Product life cycle. 4. Pricing 		

	Assignment	<ol style="list-style-type: none"> 1. Consumer Behaviour. 2. Write note on marketing and selling, significance of marketing. 		
October 2017	Theory	<ol style="list-style-type: none"> 1. Factors affecting promotion mix, integrated marketing communication approach. 2. Distribution: Channels of distribution – Meaning, importance, and functions; Factors affecting choice of distribution channel; Distribution logistics: Meaning, importance and decisions. 3. Retailing: Store based, Non store based, specialty store, super market, retail vending machine, mail order house. 	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	<ol style="list-style-type: none"> 1. Pricing policies and factors affecting pricing. 2. Skimming and penetration pricing. 3. Distribution logistics. 4. Retailing – store based and non-store based. 		
	Test	<ol style="list-style-type: none"> 1. Introduction 2. Consumer Behavior 3. Market selection 4. Product 		
November 2017	Theory	<ol style="list-style-type: none"> 1. Management of Retailing; an overview in India changing scenario. 2. Development and Issues in Marketing: Rural, Social, Online, Direct, Services, Green and relationship marketing, marketing ethics. 	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	<ol style="list-style-type: none"> 1. Promotion mix 2. Relationship, green, online and direct marketing. 		



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Mamta Arora

Department: Commerce

Semester : I/III/V

Month		Topics	Course	Paper
JULY 2017	Theory	<ol style="list-style-type: none"> 1. Introduction, Scope and objectives of Financial Management 2. Time Value of Money – Theory and Practical Problems 	B.Com(H)- III A & IIIB	BCH-5.2/ Financial Management
	Practicals	Not Applicable		
	Tutorials	<ol style="list-style-type: none"> 1. Interactive session with students on scope and objectives of Financial Management 2. Practical Problems of Time Value of Money discussed 		
AUGUST 2017	Theory:	<ol style="list-style-type: none"> 1. Capital Budgeting Process and Cash Flow estimation – Meaning, Significance and Limitations of Capital Budgeting 2. Problems based on replacement and incremental techniques 3. Evaluation Techniques of Capital Budgeting – Non Discounting Methods (Payback Period Method and Accounting rate of Return). Discounting Methods (NPV method, Internal rate of Return, Profitability Index, Net terminal value) 4. Capital Budgeting under Risk – Certainty Equivalent Approach and Risk – Adjusted Discounted Rate 	B.Com(H)- III A & IIIB	BCH – 5.2/ Financial Management
	Practicals:	Not Applicable		
	Tutorials:	<ol style="list-style-type: none"> 1. Discussion on Practical Problems based on Cash Flow estimates and evaluation techniques of Capital Budgeting and Capital Budgeting under Risk 2. Assignment on Scope and objectives of Financial Management 		
SEPTEMBER 2017	Theory:	<ol style="list-style-type: none"> 1. Financial Decisions- Meaning, Sources of Long Term Financing, Estimation of Cost of Components of Cost of Capital 2. Methods for Calculating Specific Costs – Cost of Equity, Capital, Cost of Debt, Cost of preference Capital and Cost of Retained Earnings 3. Concept of assignment of Weights, Market Value and Book Value weights. Calculation of weighted average cost of capital (WACC) and Marginal cost of Capital 4. Capital Structure – Meaning and Determinants 	B.Com(H)- III A & IIIB	BCH – 5.2/ Financial Management

	Practicals:	Not Applicable		
	Tutorials:	1. Practical problems based on Calculation of Cost of Capital.		
	<u>Assignment :</u>	Assignment on Capital Budgeting Evaluation Techniques		
OCTOBER 2017	Theory:	<ol style="list-style-type: none"> 1 Theory of Leverage – Operating, Financial and Total Leverage and practical aspects of Leverage. 2 EBIT / EPS Analysis and Financial Break-even Level. 3 Calculation of Indifference Point in Capital Structure 4 Theories of Capital Structure, Net Income and Net Operating Income Approach 5 MM Hypothesis and Traditional Approach of Capital Structure Theories 	B.Com(H)- III A & IIIB	BCH – 5.2/ Financial Management
	Practicals:	Not Applicable		
	Tutorials:	<ol style="list-style-type: none"> 1. Assignment on Cost of Capital 2. Discussion on Practical problems of Leverage, Calculation of EPS and Capital Structure Theories. 		
	<u>Test</u>	Class Test on Capital Budgeting Process and Cost of Capital		
NOVEMBER 2017	Theory:	<ol style="list-style-type: none"> 1. Meaning and Significance of Dividend Decision. 2. Theories of Relevance and Irrelevance of Dividend Decision for Corporate valuation (MM Theory and Walter’s Model etc.) 3. Cash and Stock Dividends and Dividend Policy in Practice. 	B.Com(H)- III A & IIIB	BCH – 5.2/ Financial Management
	Practicals:	Not Applicable		
	Tutorials:	<ol style="list-style-type: none"> 1. Discussion on Problems of Dividend Decisions. 2. To clear doubts of the syllabus 		



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2017-18)

Name of the Faculty: Dr. Shruti Mathur

Department: Commerce

Semester: 3rd

Month		Topics	Course	Paper Code/Name
July – August 2017	Theory	Unit 1- Introduction <ul style="list-style-type: none"> • Concept; Management functions; Coordination. • Trends & Challenges of mngt. Emerging Issues in mngt Unit 2- Planning <ul style="list-style-type: none"> • Types of Plans; • Strategic Planning: Process, Importance, Limitations, Growth Strategies – Internal and External. • Environmental Analysis – Internal and External, SWOT/TOWS/WOTS-UP, BCG Matrix, Competitor Analysis; business environment 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • Case studies/ presentations/ management games related to the topics done in theory 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
September 2017	Theory	Unit 2- Planning <ul style="list-style-type: none"> • Decision Making: Concept, Importance, Group Decision Making, Individual vs group Decision Making, Process, Perfect and Bounded Rationality, Techniques (Qualitative, Quantitative, MIS, DSS) Unit 4 – Staffing & Directing <ul style="list-style-type: none"> • Motivation: Concept, Importance, Intrinsic and Extrinsic, Major Motivation Theories – Maslow’s, Herzberg’s, McGregor’s X and Y, Ouchi’s Z • Leadership- concept, importance, major leadership theories (Likert’s theory, Blake & Mouton’s Grid, House Path Goal theory, Fielder’s situational leadership), Transactional & Transformational leadership 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • Case studies/ presentations/ management games related to the topics done in theory 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Assignment	<ul style="list-style-type: none"> • Assignment on various topics from the course 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
October 2017	Theory	Unit 4- Staffing & Directing <ul style="list-style-type: none"> • Communication: Concept, purpose, process, oral & written communication, formal, informal communication networks, barriers to communication, overcoming barriers 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications

		Unit 3 - Organising <ul style="list-style-type: none"> • Concept • Process, Span of Management, Different types of Authority, Line Staff Functional, Decentralisation, and Delegation • Formal and Informal organization • Principles of Organising; • Types of Organising structure. 		
	Tutorials	<ul style="list-style-type: none"> • Case studies/ presentations/ management games related to the topics done in theory 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Test	<ul style="list-style-type: none"> • Unit II – Planning • Unit IV – Staffing & Directing- Leadership & Motivation 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
November 2017	Theory	Unit 5- Control <ul style="list-style-type: none"> • Control, Process, Principles, Major Techniques, Ratio Analysis, ROI, Budgetary Control, EVA, MVA, PERT, CPM. 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Tutorials	<ul style="list-style-type: none"> • Case studies/ presentations/ management games related to the topics done in theory 	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Shruti Mathur

Department: Commerce

Semester: 5th

Month		Topics	Course	Paper Code/Name
July – August 2017	Theory	1. Introduction: Meaning, Nature and scope of marketing; Evolution of marketing concept and modern marketing concept; Marketing mix. Marketing Environment- macro and micro environmental concepts; 2. Consumer buying process; Factors influencing consumer buying decisions. 3. Market segmentation – meaning, benefits, and Bases of segmentation; Positioning – meaning and importance; Major bases of positioning a product	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	Case studies/ presentations/ activities based on the theory chapters	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
September 2017	Theory	4. Product: Concept, Product classification; Major product decisions: Product attributes Branding, Packaging and labeling; After-sales service; Product life cycle, new product development. 5. Pricing: Significance, factors affecting price determination, major pricing methods; pricing policies and strategies. 6. Promotion: Nature and importance, promotion mix, Promotion tools, advertising, personal selling, public relation, sales promotion and publicity. Factors affecting promotion mix, integrated marketing communication approach	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	Case studies/ presentations/ activities based on the theory chapters	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing

	Assignment	Assignment on various topics in the syllabus		
October 2017	Theory	<p>7. Distribution: Channels of distribution – Meaning, importance, and functions; Factors affecting choice of distribution channel; Distribution logistics: Meaning, importance and decisions.</p> <p>8. Retailing: Store based, Non store based, specialty store, super market, retail vending machine, mail order house. Management of Retailing; an overview in India changing scenario.</p>	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	Case studies/ presentations/ activities based on the theory chapters	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Test	<p>1. Introduction</p> <p>2. Consumer Behavior</p> <p>3. Market selection</p>		
November 2017	Theory	9. Development and Issues in Marketing: Rural, Social, Online, Direct, Services, Green and relationship marketing, marketing ethics.	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing
	Tutorials	Case studies/ presentations/ activities based on the theory chapters	B.Com. (Hons.) 5 th Semester CBCS	Paper BCH 5.1 Principles of Marketing



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
JULY-DEC 2017-18

Name of the Faculty: Ms Pooja Jain

Department: Commerce

Semester: I/III/V

Month	Type of Class	Topics	Course	Paper Code/Name
JULY	Theory	<p>1. Unit I: Nature and Scope, Difference between cost accounting and management accounting, cost control, cost reduction, cost management, difference between cost control, cost reduction and cost management.</p> <p>2. Unit 1: Introduction: Meaning, nature, concepts, advantages, disadvantages and reasons for transacting online, types of E-commerce</p> <p>3. Unit 1: Introduction: Meaning of computers and functions of computer</p>	<p>1. B.Com. (Hons) – V A+B</p> <p>2. B.Com. (Hons) – III A+B</p> <p>3. B.Com III</p>	<p>1. BCH 5.3/Management Accounting</p> <p>2. BCH 3.5 E-Commerce</p> <p>3. BC 3.4 Computer Applications in business</p>
	Practicals	Introduction to HTML, Creating and viewing a Webpage and basic HTML tags.	<p>1. B.Com. (Hons) – V A</p> <p>2. B.Com. (Hons) – V B</p>	1. BCH 3.5 E-Commerce Practical Part C
	Tutorials	Basics and significance of Management Accounting will be discussed	1. B.Com. (Hons) – V A+B	1. BCH 5.3/Management Accounting
Month	Type of Class	Topics	Course	Paper Code/Name
AUGUST	Theory	<p>1. Unit IV: a. Absorption versus variable costing: Distinctive features and income determination.</p> <p>b. Cost-Volume-Profit Analysis: Break-even analysis- algebraic and graphic methods. Contribution / sales ratio, key factor. Margin of safety. Angle of incidence. Determination of cost indifference point.</p> <p>Unit II: Budgeting and budgetary control: Concept of budget and budgetary control, objectives, merits, and limitations</p>	<p>1. B.Com. (Hons) – V A+B</p> <p>2. B.Com. (Hons) – III A+B</p> <p>3. B.Com III</p>	<p>1. BCH 5.3/Management Accounting</p> <p>2. BCH 3.5 E-Commerce</p> <p>3. BC 3.4 Computer Applications in business</p>

		<p>2. UNIT 1: Introduction: E-commerce business models (introduction, key elements of a business model and categorizing major E-commerce business models), forces behind e-commerce. Technology used in e-commerce: The dynamics of world wide web and internet (meaning, evaluation and features); Designing, building and launching e-commerce website(A systematic approach involving decisions regarding selection of hardware, software, outsourcing vs. In house development of website.)</p> <p>UNIT 2: Security and Encryption Needs and concepts, the e-commerce security environment : (dimension, definition and scope of e-security)</p> <p>3. Unit 1: Introduction: Characteristics of computers, advantages and disadvantages of computers, basic computer operations, organization of computer, computer hardware setup, configuration</p>		
	Practicals	Text Formatting tags, Images and hyperlinks	<p>1. B.Com. (Hons) – V A 2. B.Com. (Hons) – V B</p>	1. BCH 3.5 E-Commerce Practical Part C
	Tutorials	<p>Practical problems will be discussed related to following topics:</p> <p>a. Absorption versus variable costing: Distinctive features and income determination.</p> <p>b. Cost-Volume-Profit Analysis: Break-even analysis-algebraic and graphic methods. Contribution / sales ratio, key factor. Margin of safety. Angle of incidence. Determination of cost indifference point.</p>	2. B.Com. (Hons) – V A+B	1. BCH 5.3/Management Accounting
	Assignment	One home assignment will be given from the topic: Absorption and variable Costing and CVP analysis	<p>1. B.Com. (Hons) – V A 2. B.Com. (Hons) – V B</p>	BCH 5.3/Management Accounting

Month	Type of Class	Topics	Course	Paper Code/Name
SEPTEMBER	Theory	<p>Unit II: Budgeting and budgetary control: Budget administration, Functional budgets, Fixed and flexible budgets, Zero base budget, Programme and performance budgets.</p> <p>Unit VI: Responsibility Accounting: Concept, Significance, Different Responsibility Centres, Divisional Performance Measurement – Financial Measures.</p> <p>Unit V: Decision making: Costs for decision making, variable costing and differential analysis as aids in making decisions – fixation of selling price, exploring new markets</p> <p>2. UNIT 2: Security and Encryption Security threats in e-commerce environment(security intrusions and breaches, attacking methods like hacking, sniffing, cyber- vandalism etc.), technology solutions (Encryption, security channels of communication, protecting networks and protecting servers and clients).</p> <p>UNIT 6 : Security and legal aspects of e-commerce Threats in E-commerce , security of clients and service provider; cyber laws – Relevant provisions of information technology act 2000, offences , secure electronic records and digital signatures penalties and adjudication.</p> <p>3.Unit 1: Introduction to networking, distributed computing, basic hardware for networks, network security, types of networks by scale</p>	<p>1. B.Com. (Hons) – V A+B</p> <p>2. B.Com. (Hons) – III A+B</p> <p>3. B.Com III</p>	<p>1. BCH 5.3/Management Accounting</p> <p>2. BCH 3.5 E-Commerce</p> <p>3. BC 3.4 Computer Applications in business</p>
	Practicals	Lists, Tables and Forms	<p>1. B.Com. (Hons) – V A</p> <p>2. B.Com. (Hons) – V B</p>	1.BCH 3.5 E-Commerce Practical Part C

	Tutorials	Practical questions and Presentation will be taken from the following topics: a. Budgeting and budgetary control: Budget administration, Functional budgets, Fixed and flexible budgets b. Decision making: Costs for decision making, variable costing and differential analysis as aids in making decisions – fixation of selling price, exploring new market	3. B.Com. (Hons) – V A+B	1. BCH 5.3/Management Accounting
Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER	Theory	<p>1. Unit V: Decision making: make or buy, product mix, operate or shut down, sell or process further</p> <p>Unit III: Standard costing and variance analysis: Meaning of standard cost and standard costing: advantages, limitations and applications, Variance analysis – material, labour, and sales variances, Disposition of variances, Control ratios.</p> <p>2. UNIT IV: E-payment system models and methods of e-payments (Debit cards, Credit cards, Smart cards, e-money), digital signatures (Procedures, working and legal position), payment gateways, online banking (meaning, concepts, importance, electronic fund transfer, automated clearing house, automated ledger posting), risks involved in e-payments.</p> <p>UNIT V :On-line business transactions: Meaning, purposes, advantages and disadvantages of transacting online, E-commerce application in various industries like {banking, insurance, payment of utility bills, online marketing</p> <p>3. Unit 1: Types of networks by organisation scope, types of networks by communication media, types of networks by topology</p>	<p>1. B.Com. (Hons) – V A+B</p> <p>2. B.Com. (Hons) – III A+B</p> <p>3. B.Com III</p>	<p>1. BCH 5.3/Management Accounting</p> <p>2. BCH 3.5 E-Commerce</p> <p>3. BC 3.4 Computer Applications in business</p>

	Practicals	Forms, Frames and Cascading style sheets	1. B.Com. (Hons) – V A 2. B.Com. (Hons) – V B	1. BCH 3.5 E-Commerce Practical Part C
	Tutorials	Practical questions and Presentation will be taken from the following topics: a. Decision making: make or buy, product mix, operate or shut down, sell or process further b Standard costing and variance analysis: Meaning of standard cost and standard costing: advantages, limitations and applications, Variance analysis – material, labour, and sales variances, Disposition of variances, Control ratios.	1. B.Com. (Hons) – V A+B	1. BCH 5.3/Management Accounting
	Test	1. Class Test will be conducted in the middle of the month from these topics: a. Nature and scope of management accounting b. Absorption and variable costing c. C-V-P Analysis d. Budgeting 2. Class Test will be conducted in the middle of the month from these topics: a. Introduction to E-commerce b. Security and Encryption c. E-payment system models and methods of e-payments 3. Class Test will be conducted in the middle of the month from these topics: a. Introduction to computers b. Networking	1. B.Com. (Hons) – V A+B 2. B.Com. (Hons) – III A+B 3. B.Com III	1. BCH 5.3/Management Accounting 2. BCH 3.5 E-Commerce 3. BC 3.4 Computer Applications in business

Month	Type of Class	Topics	Course	Paper Code/Name
NOVEMBER	Theory	<p>1.Unit III: Standard Costing and Variance analysis: Overhead variance b. Revision will be taken from each unit.</p> <p>2. UNIT V :On-line business transactions: a.E-tailing (popularity ,benefits ,problems ,and features), online services (financial, travel and career), auctions (online portal ,online learning, publishing and entertainment) online shopping (amazon ,snapdeal, alibaba, flipkart , etc) b. Revision will be taken from above topics 3. Revision will be taken from each unit.</p>	<p>1. B.Com. (Hons) – V A+B</p> <p>2. B.Com. (Hons) – III A+B</p> <p>3. B.Com III</p>	<p>1. BCH 5.3/Management Accounting</p> <p>2. BCH 3.5 E-Commerce</p> <p>3. BC 3.4 Computer Applications in business</p>
	Practicals	Miscellaneous questions will be discussed from examination point of view.	<p>1. B.Com. (Hons) – V A</p> <p>2. B.Com. (Hons) – V B</p>	1. BCH 3.5 E-Commerce Practical Part C
	Tutorials	<p>a. Standard Costing and Variance analysis: Overhead variance</p> <p>b. Miscellaneous questions will be discussed from examination point of view.</p>	1. B.Com. (Hons) – V A+B	1. BCH 5.3/Management Accounting



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. Sindhu Mani Bag

Department: Commerce

Semester: I/III/V

Month	Type of Class	Topics	Course	Paper Code/Name
JULY-2017	Theory	<ol style="list-style-type: none"> The limited liability partnership Act, 2008: Salient features of LLP, difference between LLP and Partnership, LLP and Company The Indian Contract Act 1872: (a) Meaning, characteristics and kinds. (b) Essentials of a valid contracts- offer and acceptance, consideration, contractual capacity. Director and Key managerial Personnel 	<ol style="list-style-type: none"> B.Com. (Hons) – IA B.Com (Hons)-IB B.Com (p) -III 	<ol style="list-style-type: none"> BCH 1.3: Business Laws BCH 1.3: Business Laws CP: Company Laws
	Practical Lab.)	<ol style="list-style-type: none"> Income Tax (ITR-1) Income Tax (ITR-1) 	<ol style="list-style-type: none"> B.Com (p)-III B.Com (Hons)-IIIB 	<ol style="list-style-type: none"> Income Tax Laws & practices Income Tax Laws & Practices
	Tutorials	<ol style="list-style-type: none"> Case laws of offer and acceptance presented by the students Case laws of consideration presented by students. Group discussion on type of Directors and their Role 	<ol style="list-style-type: none"> B.Com. (Hons) - IA B.Com. (Hons) – IB B.Com(P)-III 	<ol style="list-style-type: none"> BCH 1.3: Business Laws BCH 1.3: Business Laws Company Laws
Month	Type of Class	Topics	Course	Paper Code/Name
AUGUST-2017	Theory	<ol style="list-style-type: none"> Limited Liability Partnership,2008: LLP agreement, nature of LLP, Partners and designated partners, Incorporation documents, incorporation by registration, registered office of LLP and change therein. The Indian contract Act 1872: free consent, legality of objects, void agreements, discharge of contracts- modes of discharge including breach and its remedies, contingent contracts. Director and Key managerial Personnel 	<ol style="list-style-type: none"> B.Com. (Hons) – IA B.Com (Hons)-IB B.Com (p)-III 	<ol style="list-style-type: none"> BCH 1.3: Business Laws BCH 1.3: Business Laws Company Laws

	Practicals (Lab.)	1. Income Tax (ITR-1) 2. Income Tax (ITR-1)	1. 1. B.Com (p)-III 2. B.Com (Hons)-IIIB	1. Income Tax Laws & practices 2. Income Tax Laws & Practices
	Tutorials	1. Group discussion on partners and designated partners 2. Detailed explanation to case studies vis-à-vis rules. 3. Group discussion on types on director meeting	1. B.Com. (Hons) - IA 2. B.Com. (Hons) – IB 3. B.Com (P)-III	1. BCH 1.3 Business Laws 2. BCH 1.3: Business Laws 3. CP: Company Laws
Month	Type of Class	Topics	Course	Paper Code/Name
SEPTEMBER -2017	Theory	1. The Limited Liability Partnership, 2008: change of name, partners and their relations, extent and limitation of liability of LLP and partners, whistle blowing, taxation of LLP, conversion of LLP. 2. The Indian contract Act, 1872: quasi contracts, contract of indemnity and guarantee, contract of bailment and contract of Agency. The sales of goods Act, 1930: the contract of sale, meaning and difference between sale and agreement to sell, conditions and warranties, transfer of ownerships in goods including sale by non-owners, performance of contract of sale. 3. Shareholders Meetings:	1. B.Com. (Hons) – IA 2. B.Com. (Hons) – IB 3. B.Com (p)-III	1. BCH1.3: Business Laws 2. BCH 1.3 Business Laws 3. Company Laws
	Practicals	1. Income Tax (ITR-2) 2. Income Tax (ITR-2)	1. B.Com (p)-III 2. B.Com (Hons)-IIIB	1. Income Tax Laws & practices 2. Income Tax Laws & Practices
	Tutorials	1. Case study on contractual capacity 2. Case study on legality of objects. 3. Different type of shareholder meeting and case studies	1. B.Com. (Hons) - IA 2. B.Com. (Hons) – IB 3. B.Com. (P) - III	1. BCH 1.3 : Business Laws 2. BCH 1.3: Business Laws 3. CP: Company Laws

	Assignment	<p>1. Topic allotment for 1st assignment & collect it and topic allotment for 2nd assignment (sharing with Dr. Venkata Kumar).</p> <p>2. Topics were allotted and collect of 1st Assignment and Topic allotment for 2nd Assignment.</p> <p>3. Topic allotment for 1st assignment & collect it and topic allotment for 2nd assignment (sharing with Ms Priyanka).</p>	<p>1. B.Com. (Hons) – IA 2. B.Com. (Hons) – IB 3. B.Com (P)-III</p>	<p>1. BCH 1.3: Business Laws 2. BCH 1.3: Business Laws 3. B.Com (P)-Company Laws</p>
Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER-2017	Theory	<p>1. The Limited Liability Partnership, 2008: winding up and dissolution.</p> <p>2. The sales of goods Act, 1930: unpaid seller: meaning and rights of unpaid seller against the goods and the buyer. The Limited Liability Partnership, 2008: Salient features of LLP, difference between LLP and Partnership, LLP and Company, change of name, partners and their relations, extent and limitation of liability of LLP and partners, whistle blowing, taxation of LLP, conversion of LLP. winding up and dissolution.</p> <p>3. Accounts and Audit & Dividend Provisions.</p>	<p>1. B.Com. (Hons) – IA 2. B.Com (Hons) -IB 3. B.Com (P)-III</p>	<p>1. BCH 1.3: Business Laws 2. BCH 1.3 Business Laws 3. Company Laws</p>
	Practicals	<p>1. Income Tax (ITR-2) 2. Income Tax (ITR-2)</p>	<p>1. B.Com (p)-III 2. B.Com (Hons)-IIIB</p>	<p>Income Tax Laws & practices 2. Income Tax Laws & Practices</p>
	Tutorials	<p>1. Group discussion on ‘winding up and dissolution’.</p> <p>2. Group discussion on Rights of unpaid seller.</p> <p>3. Discussion on Accounts and Audit.</p>	<p>1. B.Com. (Hons) - IA 2. B.Com. (Hons) – IB 3. B.Com (P) - III</p>	<p>1. BCH 1.3: Business Laws 2. BCH 1.3: Business Laws 3. CP: Company Laws</p>
	Test	<p>1. Notification of date schedule for the conduct of the Internal Examination.</p> <p>2. Notification of date schedule for the conduct of the</p>	<p>1. B.Com. (Hons) - IA 2. B.Com. (Hons) – IB 3. B.Com (P) - III</p>	<p>1. BCH 1.3: Business Laws 2. BCH 1.3 Business Laws 3. Company Laws</p>

		Internal Examination. 3. Notification of date schedule for the conduct of the Internal Examination.		
Month	Type of Class	Topics	Course	Paper Code/Name
NOVEMBER-2017	Theory	<ol style="list-style-type: none"> The Information Technology Act 2000: definition under the Act, Digital signature, electronic governance, attribution, acknowledgement, and dispatch of electronic records, regulation of certifying authorities, digital signature certificate, duties of subscribers, penalties and adjudication, appellate tribunal, offences. The Information Technology Act 2000: definition under the Act, Digital signature, electronic governance, attribution, acknowledgement, and dispatch of electronic records, regulation of certifying authorities, digital signature certificate, duties of subscribers, penalties and adjudication, appellate tribunal, offences. Winding Up of Companies. 	<ol style="list-style-type: none"> B.Com. (Hons) – IA B.Com (Hons) -IB B.Com (P) - III 	<ol style="list-style-type: none"> BCH 1.3: Business Laws BCH 1.3: Business Laws Company Laws
	Practicals	<ol style="list-style-type: none"> Income Tax (ITR-1) Income Tax (ITR-1) 	<ol style="list-style-type: none"> B.Com (p)-III B.Com (Hons)-IIIB 	<ol style="list-style-type: none"> Income Tax Laws & practices Income Tax Laws & Practices
	Tutorials	<ol style="list-style-type: none"> Group discussion on ‘governance of information technology Act 2000’ Group discussion on ‘governance of information technology Act 2000’ Discussion on ‘winding up and dissolution of a company’ 	<ol style="list-style-type: none"> B.Com. (Hons) - IA B.Com. (Hons) – IB B.Com (P) - III 	<ol style="list-style-type: none"> BCH 1.3:Business Laws BCH 1.3: Business Laws CP: Company Laws
	Test	<ol style="list-style-type: none"> conduct internal Examination conduct internal Examination conduct internal Examination 	<ol style="list-style-type: none"> B.Com. (Hons) - IA B.Com. (Hons) – IB B.Com (P) - III 	<ol style="list-style-type: none"> BCH 1.3:Business Laws BCH 1.3: Business Laws CP: Company Laws



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2017-18)

Name of the Faculty: Dr. Vinod Kumar

Department: Commerce

Semester: I/V

Month	Type of Class	Topics	Course	Paper Code/Name
JULY & AUGUST 2017	Theory	1. Nature, Scope and Objectives of financial management, Time value of money, Risk & Return – (including Capital Asset Pricing Model); Long-term investment decisions: The capital budgeting process, cash flow estimation, pay-back period method, Accounting rate of return, net present value, net terminal value, internal rate of return and Profitability Index 2. Concept of risk; Types of Risk; Managing Risk, Sources and measurement of risk; risk evaluation and prediction; Disaster risk management; Risk retention and transfer; concept of insurance; need for insurance; nature of insurance contract; principle of utmost good faith, insurable interest; proximate cause; contribution and subrogation; indemnity; legal aspects of insurance contract	1. B.Com - V 2. B.Com. (Hons) - I	1. BC 5.2(a)/Fundamental of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management
	Practical	1. Capital Budgeting methods with MS-EXCEL Software	1. B.Com. – (H) - V	1. BCH 5.2: Fundamentals of Financial Management
	Tutorials	1. Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	2. B.Com - V 3. B.Com. (H) - I	2. BC 5.2(a)/Fundamental of Financial Management 3. BCH 1.4 (b)/Insurance and Risk Management
Month	Type of Class	Topics	Course	Paper Code/Name
SEPTEMBER 2017	Theory	1. Financing Decisions: Sources of long-term financing, Estimation of components of cost of capital, methods of calculating cost of equity, cost of retained earnings, cost of debt and preference	1. B.Com - V 2. B.Com. (Hons) - I	1. BC 5.2(a)/Fundamental of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management

		capital, weighted average cost of capital, capital structure: theories of capital structure (Net Income, Net Operating Income, MM Hypothesis, Traditional approach), Operating and Financing Leverage, Determinants of capital structure. 2. Types of insurance; Regulatory framework of insurance: role, power and functions of IRDA, composition of IRDA, IRDA Act, 1999;		
	Practical	1. Capital Budgeting methods with MS-EXCEL Software	1. B.Com. – (H) - V	1. BCH 5.2: Fundamentals of Financial Management
	Tutorials	1. Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	1. B.Com – V 2. B.Com. (H) - I	1. BC 5.2(a)/Fundamental of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management
Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER 2017	Theory	1. Dividend Decisions: Theories of relevance and irrelevance of dividend decisions for corporate valuation: Walter’s Model, Gordon’s model, MM Approach, Cash and stock dividends, Dividend policies in practice 2. Fire and Motor Insurance; Health Insurance	1. B.Com. - V 2. B.Com. (Hons) - I	1. CH 5.2 (a)/Fundamental of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management
	Practicals	1. Cost of capital and financing decisions	1. B.Com. (H) -V	1. BCH 5.2: Fundamentals of Financial Management
	Tutorials	1. Out of the topics covered in the class to be issued to the students for discussion and problem-solving with analytical thinking on it.	1. B.Com.- V 2. B.Com. (Hons) - I	1. BC 5.2 (a)/Fundamentals of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management
	Assignment	1. Topics were allotted for making the assignments. 2. Topics were allotted for giving presentation in PPT format.	1. B.Com - V 2. B.Com. (Hons) - I	1. BC 5.2 (a)/Fundamentals of Financial Management 2. BCH 1.4 (b)/Insurance and Risk Management

Month	Type of Class	Topics	Course	Paper Code/Name
NOVEMBER 2017	Theory	<ol style="list-style-type: none"> Working capital decisions: concepts of working capital, operating & cash cycles, sources of short-term finance, working capital estimation, cash management, receivables management, inventory management Globalisation of insurance sector; Reinsurance; Co-insurance; Assignment; Endowment; Control of malpractices; Negligence; Loss assessment and loss control; exclusion of perils; computation of insurance premium, Actuaries 	<ol style="list-style-type: none"> B.Com - V B.Com. (Hons) - I 	<ol style="list-style-type: none"> BC 5.2 (a)/Fundamentals of Financial Management BCH 1.4 (b)/Insurance and Risk Management
	Practicals	<ol style="list-style-type: none"> Capital Budgeting methods , cost of capital and financing decisions 	<ol style="list-style-type: none"> B.Com. (H) -V 	<ol style="list-style-type: none"> BC 5.2(a): Fundamentals of Financial Management
	Tutorials	<ol style="list-style-type: none"> Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it. 	<ol style="list-style-type: none"> B.Com.- V B.Com. (Hons) - I 	<ol style="list-style-type: none"> BC 5.2 (a)/Fundamentals of Financial Management BCH 1.4 (b)/Insurance and Risk Management
	Test	<ol style="list-style-type: none"> Test would be conducted on the concerned subject. Test would be conducted on the concerned subject. 	<ol style="list-style-type: none"> B.Com - V B.Com. (Hons) - I 	<ol style="list-style-type: none"> BC 5.2 (a)/Fundamentals of Financial Management BCH 1.4 (b)/Insurance and Risk Management



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Ms. Neha Singhal

Department: Commerce

Semester : III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	1. An Introduction to Income Tax-Sections 1 to 4, Scope of Total Income and Residential Status. 2. Deductions to be made in computing Total Income. 3. Introduction, Types of Audit, Audit Planning and Documentation, Internal Control System.	1) B.Com-V 2) B.com (H)-III	1. BCH-3.2/Income Tax 2. BC-5.1 A Auditing and CG
	Practicals	1. MS WORD	1.B.com-III	1. BCH-3.4 (a) Computer Applications in Business
	Tutorials	1. Scope of Total Income and Residential Status.	1. B.Com (H)-III	1. BCH-3.2/ Income tax Law and Practice
AUGUST	Theory:	1. Scope of Total Income and Residential Status, Income Under the Head Salaries. 2. Deductions to be made in computing Total Income, Income Under the Head House Property. 3. Vouching, Verification of Assets, Verification of Liabilities, Appointment and Removal of Auditor, Rights and Duties of a Company Auditor.	1. B.Com-V 2. B.com (H)-III	1. BCH-3.2/Income Tax 2. BC-5.1 A Auditing and CG
	Practicals:	1. MS WORD	1.B.com-III	1. BCH-3.4 (a) Computer Applications in Business
	Tutorials:	1. Income Under the Head Salary.	1. B.Com (H)-III	1. BCH-3.2/ Income tax Law and Practice

	Assignment	<ol style="list-style-type: none"> 1. Assignment form Chapter –Income under the head Salary. 2. Assignment from Chapter- Verification, Appointment, Rights and Duties of an Auditor 	<ol style="list-style-type: none"> 1) B.Com-III 2) B.Com (H)-V 	<ol style="list-style-type: none"> 1. BCH-3.2/ Income Tax Law and Practice\ 2. BC-5.1 A Auditing
SEPTEMBER	Theory	<ol style="list-style-type: none"> 1. Income under the head House Property, Income under the head Business/ Profession. 2. Auditor’s Report, Liabilities of Auditor, Cost Audit, Management Audit, Tax Audit and Introduction to EDP Auditing. 3. CG-Theories, Models and Committees. 	<ol style="list-style-type: none"> 1. B.Com-V 2. B.com (H)-III 	<ol style="list-style-type: none"> 1. BCH-3.2/Income Tax 2. BC-5.1A Auditing and CG
	Practicals	1. MS Powerpoint, MS Excel/Access	1.B.com-III	1. BCH-3.4 (a) Computer Applications in Business
	Tutorials	<ol style="list-style-type: none"> 1. Income under the head House Property, Income under the head Business/ Profession. 2. Cases in Verification of Assets and Verification of Liabilities 	1. B.Com (H)-III	1. BCH-3.2/ Income tax Law and Practice
OCTOBER	Theory	<ol style="list-style-type: none"> 1. Income under the head Business/ Profession, Income under the head Capital Gains, Income under the head Other Sources. 2. Set off or Carry forwards and set off of losses. 3. CG-Insider Trading, Rating Agencies, Clause 49, Green Governance, Whistle Blowing and Introduction to scams 	<ol style="list-style-type: none"> 1. B.Com-V 2. B.com (H)-III 	<ol style="list-style-type: none"> 1. BCH-3.2/Income Tax 2. BC-5.1A Auditing and CG
	Practicals	1. MS Access/ Excel	1.B.com-III	1. BCH-3.4 (a) Computer Applications in Business
	Tutorials	<ol style="list-style-type: none"> 1. Income under the head Business/ Profession, Income under the head Capital Gains, Income under the head Other Sources. 2. Liabilities of Auditor 	1. B.Com (H)-III	1. BCH-3.2/ Income tax Law and Practice

	Test	<ol style="list-style-type: none"> 1. Test from Chapter- Residential Status and Income under the head Salary. 2. Test from Chapter- Types of Audit, Internal Control System, Appointment and Removal of an Auditor, Rights and Duties of Auditor. 	<ol style="list-style-type: none"> 1. B.com (H)-III 2. B.Com (H)-V 	<ol style="list-style-type: none"> 1. BCH-3.2/Income Tax Law and Practices 2. BC-5.1A Auditing and CG
	Assignment	<ol style="list-style-type: none"> 1. Assignment from Chapter- Income under the head Business/ Profession 	<ol style="list-style-type: none"> 1. B.Com-III 	<ol style="list-style-type: none"> 1. BCH-3.2/Income Tax Law and Practice
NOVEMBER	Theory	<ol style="list-style-type: none"> 1. Clubbing of Income, Set off or Carry forwards and set off of losses, Deductions to be made in computing Total Income, Agricultural Income, Assessment of Individuals. 2. Clubbing of Income, Leading case of Supreme Court. 3. Corporate Scams, Business Ethics and CSR 	<ol style="list-style-type: none"> 1. B.Com-V 2. B.com (H)-III 	<ol style="list-style-type: none"> 1. BCH-3.2/Income Tax 2. BC-5.1A Auditing and CG
	Practicals	<ol style="list-style-type: none"> 1. MS Access/Excel 	<ol style="list-style-type: none"> 1. B.com-III 	<ol style="list-style-type: none"> 1. BCH-3.4 (a) Computer Applications in Business
	Tutorials	<ol style="list-style-type: none"> 1. Clubbing of Income, Agricultural Income, Assessment of Individuals. 	<ol style="list-style-type: none"> 1. B.Com (H)-III 	<ol style="list-style-type: none"> 1. BCH-3.2/ Income tax Law and Practice



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: SHILPA

Department: COMMERCE

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY 2017	Theory	1.Introduction to the basic accounting concepts , Financial accounting standards and the relevance of international financial reporting standards. leadership concept and styles	B.com(H) semester I (A+B) B.com semester I	BCH1.2/ Financial Accounting BC 1.3 Business Organisation & Management
	Practicals	Microsoft excel-basic introduction ,formatting etc	B.com (P) semester III	BC3.4(a)/Computer Application in Business
	Tutorials	Doubt session and taught students who joined late in this academic session the topics that they skipped.	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
AUGUST 2017	Theory:	1.Dissolution of Partnership Firm ,Inland Branches 2.Traits and situational theory of leadership with case studies	B.com(H) semester I (A+B) B.com semester I	BCH1.2/ Financial Accounting BC 1.3 Business Organisation & Management
	Practicals:	Microsoft excel-mathematical formulae	B.com (P) semester III	BC3.4(a)/Computer Application in Business
	Tutorials:	Doubt session and taught students who joined late in this academic session the topics that they skipped	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
SEPTEMBER 2017	Theory:	1.Inland Branches , Final Accounts and Hire Purchase System	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
		2.Motivation :cocept and theories Control concept and process	B.com semester I	BC 1.3 Business Organisation & Management
	Practicals:	Microsoft excel and continuous evaluation	B.com (P) semester III	BC3.4(a)/Computer Application in Business
	Tutorials:	Doubt session and taught students who joined late in this academic session the topics that they skipped	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting

	<u>Assignment :</u>	Topic- Dissolution and Inland branches	B.com(H) semester I (B)	BCH1.2/ Financial Accounting
		Topic- Motivation theories and resistance to change and ways to manage it	B.com semester I	BC 1.3 Business Organisation & Management
OCTOBER 2017	Theory:	1.Hire Purchase System , NPO,Single entry system	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
		2.Communication process and barriers ,transactional analysis and johari window	B.com semester I	BC 1.3 Business Organisation & Management
	Practicals:	Microsoft Excel and continuous evaluation	B.com (P) semester III	BC3.4(a)/Computer Application in Business
	Tutorials:	Doubt session and taught students who joined late in this academic session the topics that they skipped	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
	<u>Test</u>	Topic-NPO and Hire Purchase system	B.com(H) semester I (B)	BCH1.2/ Financial Accounting
		Topic-Dissolution and Inland Branches	B.com(H) semester I (A)	BCH1.2/ Financial Accounting
		Topic-unit-1 ,2 and 4	B.com semester I	BC 1.3 Business Organisation & Management
	<u>Assignment</u>	Topic-Hire purchase system and final accounts	B.com(H) semester I (A)	BCH1.2/ Financial Accounting
		Topic – Case studies on leadership and motivation	B.com semester I	BC 1.3 Business Organisation & Management
NOVEMBER 2017	Theory:	1.Depreciation and Inventory	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting
		2.Change management and emerging issues	B.com semester I	BC 1.3 Business Organisation & Management
	Practicals:	Continuous evaluation of Microsoft excel	B.com (P) semester III	BC3.4(a)/Computer Application in Business
	Tutorials:	Doubt session and signature of the students on the final assessment	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. Arpita Kaul

Department: Commerce

Semester: III (2017-18)

Month		Topics	Course	Paper Code/Name
JULY 2017	Theory	Concept and functions, role, status and competencies of HR manager.	B.Com H	BCH 3.1 Human Resource Management
		Concept and Functions of Human Resource Management, Essence of training and development in hrm, training and learning, learning process, learning curve, learning theories	B.Com H	BCH 3.5(b) Training and Development
	Practicals	Tally : Creating company, Creating Ledgers	B.Com	BCH 1.2-Financial Accounting Tally
	Tutorials	Case Study: Case Incident 1, Essentials of Human Resource Management, T.N.Chhabra and Monica Chhabra, Sun India Publications, Second Revised Edition, 2016, New Delhi, 4.31	B.Com H	BCH 3.1 Human Resource Management

AUGUST 2017	Theory:	HR Policies, Evolution of HRM, Emerging challenges of HRM- workforce diversity, empowerment, vrs, work life balance. Human resource planning: quantitative and qualitative dimensions, job analysis-job description & job specification, recruitment-concept & sources, selection-concept and process, test, interview, placement. Principles of learning, training guidelines, kinds of training, system approach to training, programmed instruction, transfer of training Case study	B.com H	BCH 3.1 Human Resource Management BCH 3.5(b) Training and Development
		Tally: Voucher Entries		BCH 1.2-Financial Accounting Tally
	Tutorials:	Case Study: Case Study Incident 2, , Essentials of Human Resource Management, T.N.Chhabra and Monica Chhabra, Sun India Publications, Second Revised Edition,2016, New Delhi, 5.31	B.Com H	BCH 3.1 Human Resource Management

September 2017	Theory	<p>Induction, Socialization. T&D: Concept, methods. Performance Appraisal: nature, objectives, process, methods, potential appraisal, employee counseling, job changes- transfers and promotion. HR Audit</p> <p>Staffing: Concept, recruitment, selection, orientation, training and development, career development, Performance appraisal.(with cases)</p> <p>Identification of Training and Development needs, training needs assessment, assessing curriculum needs, curriculum standards Case study</p>	B.Com H	BCH 3.1 Human Resource Management
	Practicals	Statement of P& L, Balance sheet etc	B.Com	BCH 1.2-Financial Accounting Tally
	Tutorial	All the students have been given one month time to prepare their introduction for their job interviews, they will sit on the teacher's chair and introduce themselves on by one and then feedback will be given to them.	B.Com H	BCH 3.1 Human Resource Management
	Assignment	Students have been divided into groups and asked to give a powerpoint presentation on topics approved by the faculty on first come first basis	B.Com H	BCH 3.1 Human Resource Management
OCTOBER 2017	Theory:	<p>Compensation- concept & policies, fringe benefits, employee stock option, job evaluation.</p> <p>Developing training materials, on the job & off the job</p>	B.Com H	BCH 3.1 Human Resource Management
	Practicals:	Practice questions	B.Com	BCH 1.2-Financial Accounting Tally
			B.Com H	BCH 3.5(b) Training and Development

Tutorials:	A training program on business etiquettes.	B.Com H	BCH 3.1 Human Resource Management
TEST	To be held on the date as per the date sheet.		

NOVEMBER	Theory:	E hrm, hris, contemporary issues in hrm. Evaluation of training	B.Com H B.Com H	BCH 3.1 Human Resource Management BCH 3.5(b) Training and Development
	Tutorials:	Group presentations by students on different topics of hrm and its practical applications.	B.Com H	BCH 3.1 Human Resource Management



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Department of Commerce
(Year 2017-18)

Name of the Faculty: Mr. Ajit Singh

Department: Commerce

Semester: I, III and V

Month	Type of Class	Topics	Course	Paper Code/Name
July-August 2017	Theory	1. Employee's Health and Safety. 2. Introduction Advertising-meaning, nature and importance of Advertising, types and objectives. Audience selection; Setting of advertising budget: determinants and major methods. Major media types : their merits and demerits; advertising through internet and interactive media. Issues and considerations: Factors influencing media choice; media selection, media scheduling. 3. Concept and functions of Human Resource Management : Essence of training and development in human resource management. Training and learning: Concept of training and learning, the learning process, learning curve, principles of learning, training guidelines, experience versus training, kinds of training, system approach of training, programmed instruction, transfer of training.	1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1. CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
	Practicals	1. Creation of Vouchers, Recording of Transactions;	1. B.Com. (Hons.) I	1. BCH 1.2: Financial Accounting.
	Tutorials	1. Health and Safety cases. 2. Problems of advertising and case studies	1. B.Com. (Hons.) II 2. B.Com. (P) V	1. CH: 4.4 H.R.M 2.BC 5.3(b) Advertising

Month	Type of Class	Topics	Course	Paper Code/Name
SEPTEMBER 2017	Theory	<ol style="list-style-type: none"> 1. Employee's Welfare and Social Security. 2. Message Development Advertising creativity; Advertising appeals; Advertising copy and elements of print advertisement creativity; Tactics for print advertisement 3. Identification of Training and Development needs, training needs assessment-various approaches (the job and the Individua)), Advantages and disadvantages of basic needs assessment techniques, Assessing curriculum needs, curriculum standards, matching organisational training needs, Developing training materials. 	<ol style="list-style-type: none"> 1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III 	<ol style="list-style-type: none"> 1. CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
	Practicals	<ol style="list-style-type: none"> 1. Preparing reports, cash book, bank book, 	<ol style="list-style-type: none"> 1. B.Com. (Hons.) I 	BCH 1.2: Financial Accounting
	Tutorials	<ol style="list-style-type: none"> 1. Problems in Welfare issue cases. 2. Problems of Message Development. 	<ol style="list-style-type: none"> 1. B.Com. (Hons) III 2. B.Com. (P) V 	<ol style="list-style-type: none"> 1. C.H 4.4 H.R.M 2.BC 5.3(b) Avertising
Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER 2017	Theory	<ol style="list-style-type: none"> 1. Grievance Handling and Redressal. 2. Measuring Advertising Effectiveness Arguments for and against measuring effectiveness; Advertising testing process: Evaluating communication and sales effects: Prc- and post- testing techniques Base shifting, splicing & deflating. 3. Three Stages of training (Preparatory, implementation and followup stage), On the 	<ol style="list-style-type: none"> 1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III 	<ol style="list-style-type: none"> 1.CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development

		job.and off-the job methods, experiential versus non-experiential methods.		
	Practicals	1. Preparation of Ledger accounts, trial balance,	1. B.Com. (Hons.) I	BCH 1.2: Financial Accounting.
	Tutorials	1. Problems and Grievance cases. 2. Problems and case studies related to Measuring Advertising Effectiveness.	1. B.Com. (H) II 2. B.Com. (P) V	1.CH 4.4 H.R.M 2.BC 5.3(b) Advertising
	Assignment	1. Topics allotment for making the assignments. 2. Topics allotment for making the assignments. 3. Topics allotment for making the assignments.	1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1.CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
	Test	1. Test would be conducted on the concerned subject after mid-semester break. 2. Test would be conducted on the concerned subject after mid-semester break. 3. Test would be conducted on the concerned subject after mid-semester break.	1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1.CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
Month	Type of Class	Topics	Course	Paper Code/Name
November 2017	Theory	1. Performance Appraisal and employee and counselling. 2. Organisational Arrangements Advertising Agency: Role, types and selection of advertising Social agency: Reasons for evaluating advertising agencies. Ethical and legal aspects of advertising in India; Recent developments and issues in advertising.	1. B.Com – (H) II Semester-III 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1.CH 4.4 H.R.M 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development

		3.Reasons of evaluating training, Criteria for evaluation, problems of evaluation, steps involved in evaluation, methods for training evaluation, analysis and costing of training. Emerging Pattern of Training and development in India. Two Indian case studies to be discussed in the class.		
	Practicals	1. Preparation of profit and loss account and balance sheet.	1. B.Com. (H) I	BCH 1.2: Financial Accounting
	Tutorials	1. Problems and cases in Performance Appraisal. 2. Problems and caes studies of Organisational Arrangements.	1. B.Com. (H) III 2. B.Com. (P) V	1. CH 4.4 H.R.M 2.BC 5.3(b) Advertising



SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Name of the Faculty: Ms. Priyanka

Department: Commerce

Semester: III/V

Month		Topics	Course	Paper Code/Name
JULY&AUGUST 2017	Theory	1.Introduction –Basic concepts: Income tax act, Residential status , scope of total income on the basis of residential status and computation of income from house property and under the head salary. 2.Introduction – Characteristics of a company, lifting the corporate veil, types of company, formation of company and promoters.	1.B.com, B.com (H)-III 2. B.com -III	1. BC 3.2, BCH3.2 2. BC 3.1
	Practicals	Discuss related concepts of income tax return	B.com,B.com(H)-III	BC 3.2, BCH 3.2
	Tutorials	Revision of topics which discussed in the class	B.com,B.com (H)-III	BC3.2,BCH 3.2

SEPTEMBER 2017	Theory:	<p>1.Computation of profits and gains and Capital gain , agricultural income exempted income u/s 10</p> <p>2. Computation of income from other sources , Deductions from gross total income</p> <p>3. Different kinds of documents of company –Detail discussion on them</p>	<p>1.B.com -III</p> <p>2. B.com (H) –III</p> <p>3. B.com -III</p>	<p>1. BC -3.2</p> <p>2. BCH- 3.2</p> <p>3. BC -3.1</p>
	Practicals:	Discussion on related concepts of ITR casestudy on ITR 1,and 2	B.com, B.com(H)-III	BC 3.2, BCH-3.2
	Tutorials:	Revision of topics which discussed in the class	B.com,Bcom(H) -III	BC3.1,3.2,BCH-3.2
	Assignment :	<p>1 Topics were allotted for making the assignment</p> <p>2. Topics were allotted for making the assignment</p>	<p>1 B.com -III</p> <p>2 B.com -III</p>	<p>1 BC- 3.2</p> <p>2 BCH- 3.2</p>

OCTOBER 2017	Theory:	1.Computation of income from other sources, deductions from gross total income and Agricultural income u/s 10 2. Deductions continued, Computation of total income and Tax liability 3. Company meeting	1.B.com –III 2. B.com (H) –III 3.B.com -III	1.BC -3.2 2.BCH -3.2 3 .BC -3.1
	Practicals:	1. Case study on ITR 1 and 2	B.com,B.com (h)-III	BC-3.2, BCH-3.2
	Tutorials:	Revision of topics which discussed in the class	B.com,B.com (H) -III	BC -3.2,BCH-3.2
	Test	1 Test would be conducted on the concerned subject	1 B.com–III 2 B.com (H) -III	1 BC -3.2,3.1 2 BCH -3.2
NOVEMBER 2017	Theory:	1 Computation of total income and Tax liability and leading cases decided by income tax act and revision 2. Revision 3. winding up and Revision	1.B.com –III 2. B.com (H) -III 3.B.com –III	1 BC -3.2 2 BCH -3.2 3 BC -3.1
	Practicals:	Revision on case studies	B.com,B.com(H)	BC-3.2,BCH-3.2
	Tutorials:	Revision of topics which discussed in the class	B.com,B.com(H)	BC -3.2, BCH-3.2



SEMESTER WISE TEACHING PLAN (2017-18, ODD SEMESTER)

SRI VENKATESWARA COLLEGE

Name of the Faculty: Ms. Simranjeet Kaur

Department: Commerce

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY&AUGUST	Theory	1.Introduction –Basic concepts, Exempted incomes under section 10, Residential status , Scope of total income on the basis of residential status; Computation of income from profits and gains of business or profession 2 .Measures of Central Tendency, Measures of variation,Skewness, Moments and kurtosis. 3.Accounting as an information system,nature of financial accounting principles, financial accounting standards, final accounts of a sole trader	1.B.com (H)-II 2. B.com(H) II-GE 3.B.com-I	1. BCH3.2 2. BCH-3.4(a) 3. BC1.2

	Practicals	1. Formation of frequency Distribution using pivot tables	1. B.com(H) II-GE, B.com(H) III(A+B)	1. BCH-3.4(a)
	Tutorials	Additional numerical for topics covered in class	B.com (H)-III, B.com I	BCH 3.2, BC 1.2
SEPTEMBER	Theory:	1. Computation of income under profits and gains from business or profession and Capital gains 2. Probability and probability distribution, Simple correlation and regression analysis 3. Business Income, Preparation of financial statements of not for profit organisations	1. B.com (H) -II 2. B.com (H) II-GE 3. B.com -I	1. BCH -3.2 2. BCH- 3.4(a) 3. BC 1.2
	Practicals:	Calculation of averages	B.com(H) II-GE, B.com(H) III(A+B)	1. BCH-3.4(a)
	Tutorials:	Revision of topics discussed in the class	B.com(H) -II, B.com-I	BCH-3.2, BC 1.2

	<u>Assignment :</u>	1 Topics to be allotted for making the assignment	B.com (H)–II, B.com (H) II-GE, B.com -I	BCH -3.2,BCH-3.4(a),BC -1.2
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OCTOBER	Theory:	<p>1.Capital gains continued, Income from other sources</p> <p>2. Regression analysis continued, Index numbers</p> <p>3. Accounting for hire purchase and installment system, Consignment, and joint venture.</p>	<p>1.B.com (H)–II</p> <p>2. B.com (H) II-GE</p> <p>3.B.com -I</p>	<p>1.BCH -3.2</p> <p>2.BCH-3.4(a)</p> <p>3 .BC -1.2</p>
	Practicals:	1. Measures of variation	1.B.com(H) II-GE,B.com(H) III(A+B)	1. BCH-3.4(a)

	Tutorials:	Case study pertaining to topic covered in class	B.com (H) –II, B.com I	BCH-3.2 , BC 1.2
	Test	Test will be conducted on the concerned subject	1 B.com–II 2 B.com (H) –II GE 3.B.com-I	BCH-3.2 BCH-3.4(a) BC 1.2
NOVEMBER	Theory:	1. Leading cases decided by income tax act and Revision 2. Time series analysis, sampling concepts, sampling distribution and analysis 3. Accounting for inland branches and revision	1.B.com –II 2. B.com (H) II-GE 3.B.com –I	1 BCH -3.2 2. BCH-3.4(a) 2 BC 1.2
	Practicals:	Correlation and regression co-efficient	B.com (H) II-GE, B.com(H) III(A+B)	1. BCH-3.4(a)

	Tutorials:	Revision of topics discussed in the class	B.com(H)-II, B.com-I	BCH-3.2 , BC-1.2
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SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Department of Commerce (Year 2017-18)
TEACHING PLAN

Name of the Faculty: Mr. Aashish Jain

Department: Commerce

Semester: I/III/V

Month	Type of Class	Topics	Course	Paper Code/Name
July-August 2017	Theory	Business Statistics a) Mathematical averages including arithmetic mean, geometric mean & harmonic mean. Properties & applications. b) Positional averages: absolute & relative Range, quartile deviation, mean deviation, standard deviation & their coefficient, properties of standard deviation/variance. Moments:- calculation & significance. Skewness, meaning, measurement using Karl Pearson & bowley's measures, concept of kurtosis. Financial Accounting a) Meaning of Hire Purchase b) Difference between Hire Purchase & Lease Purchase Computer Applications in Business a) Operating system	1. B.Com – (H) III Semester-V 2. B.Com – II Semester – III 3. B.Com – I Semester – I	1. BCH 5.4 (e): Business Statistics 2. BC 3.4 (a): Computer Applications in Business 3. BC 1.2: Financial Accounting
	Practical	Financial Management a) Calculation of NPV, IRR in Excel	1. B.Com – (H) III Semester-v	1. BCH 5.4 (e): Business Statistics
Month	Type of Class	Topics	Course	Paper Code/Name
SEPTEMBER 2017	Theory	Business Statistics 1) Theory of probability, approaches to calculate probability 2) Calculation of event probabilities. Addition & multiplication laws of probability. 3) Conditional probability & bayes' theorem 4) Expectation & variance of a random variable	1. B.Com – (H) III Semester-V 2. B.Com – II Semester – III 3. B.Com – I Semester – I	1. BCH 5.4 (e): Business Statistics 2. BC 3.4 (a): Computer Applications in Business

		<p>5) Probability distribution:</p> <p>a) Binomial distribution: probability distribution function, constants, shape, fitting of binomial distribution</p> <p>b) Poisson distribution: probability function</p> <p>c) Normal distribution, properties of normal curve.</p> <p>Financial Accounting</p> <p>a) Profit Computation (Stock & Debtor System)</p> <p>b) Partial & Full Repossession</p> <p>c) Calculation of various Interest on the basis of type of Hire Purchase</p> <p>Computer Applications in Business</p> <p>a) Database Management System</p> <p>b) ER model to rationale data</p>		<p>3. BC 1.2: Financial Accounting</p>
	Practical	<p>Financial Management</p> <p>a) Capital Budgeting</p>	<p>1. B.Com – (H) III Semester-v</p>	<p>1. BCH 5.4 (e): Business Statistics</p>
Month	Type of Class	Topics	Course	Paper Code/Name
OCTOBER 2017	Theory	<p>Business Statistics</p> <p>a) Correlation analysis: meaning of correlation-simple , multiple & partial:linear & nonlinear, scatter diagram, Pearson's coefficient of correlation: calculation & properties. Probable & standard errors, rank correlation.</p> <p>b) Regression analysis. Principle of least squares & regression lines, regression equations & estimation. Standard error of estimates.</p> <p>Financial Accounting</p> <p>a) Basic Concept of Depreciation</p> <p>b) Types of Depreciation</p> <p>c) Calculation of Depreciation on both methods of depreciation – WDV & SLM</p> <p>Computer Applications in Business</p> <p>a) RDM design using DBMS software</p>	<p>1. B.Com – (H) III Semester-V</p> <p>2. B.Com – II Semester – III</p> <p>3. B.Com – I Semester – I</p>	<p>1. BCH 5.4 (e): Business Statistics</p> <p>2. BC 3.4 (a): Computer Applications in Business</p> <p>3. BC 1.2: Financial Accounting</p>

	Practical	Financial Management a) Decision Making in various Projects	1. B.Com – (H) III Semester-v	1. BCH 5.4 (e): Business Statistics
	Assignment	1. Topics allotment for making the assignments from probability & central value	1. B.Com – (H) III Semester-v	1. BCH 5.4 (e): Business Statistics
	Test	1. Test conducted on the concerned subject after mid-semester break.	1. B.Com – (H) III Semester-v	1. BCH 5.4 (e): Business Statistics
Month	Type of Class	Topics	Course	Paper Code/Name
November 2017	Theory	Business Statistics a) Components of time series. Additive & multiplicative models b) trend analysis, fitting of trend line using principle of least squares- linear, second degree parabola & exponential. Conversion of annual linear trend equation to quarterly/monthly basis & vice-versa. Moving averages. c) Seasonal variations- calculation & uses. Simple averages, ratio to trend, ratio to moving averages & link-relatives methods. Uses of seasonal indices. Financial Accounting a) Concept of Department Accounting b) Type of Department Accounting c) Allocation of Department Expenses d) Methods of Departmental Accounting Computer Applications in Business a) Computer Assisted Audit Tools	1. B.Com – (H) III Semester-V 2. B.Com – II Semester – III 3. B.Com – I Semester – I	1. BCH 5.4 (e): Business Statistics 2. BC 3.4 (a): Computer Applications in Business 3. BC 1.2: Financial Accounting

	Practical	Financial Management Conducted Internal Practical for Financial Management	1. B.Com – (H) III Semester-v	1. BCH 5.4 (e): Business Statistics
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SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Planner: Odd Semester 2017 (July - November)

Name of the Faculty: Ms. Ramaa Sinha

Department: Zoology

Semester: III/V

Month		Topics	Course	Paper Code/Name
July	Theory	Unit 1: Introduction to Endocrinology History of endocrinology, characteristic of Hormones, Classification –Local and circulating hormones, chemical classification, Neurosecretions and neurohormones Unit 3: Thyroid-Parathyroid system Thyroid gland; structure of thyroid gland, synthesis and functions of thyroid hormones, regulation of thyroid hormone secretion; thyrocalcitonin	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practical	<ul style="list-style-type: none"> Anatomical location of endocrine organs in human An overview of hormones secreted by various glands 	B.Sc. Biological Science (CBCS) DSE6	DSE-6 Endocrinology
		Preparation of hemin and hemochromogen crystals	B.Sc. (P) Life Sciences Sem. III Batch II	CC-III, Physiology and Biochemistry
		Preparation of hemin and hemochromogen crystals	B.Sc. (P) Life Sciences Sem. III Batch III	CC-III, Physiology and Biochemistry
August	Theory	Unit 3: Thyroid-Parathyroid system Disorders of thyroid gland. Parathyroid Glands: Secretion Action of parathyroid Hormones, role of parathyroid hormone and calcitonin in calcium metabolism, disorders of parathyroid gland Unit 5: Pancreas and its hormones Structure of Pancreatic Islets of Langerhans and hormones secreted by it; insulin secretion (proinsulin) its activation	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practical	<ul style="list-style-type: none"> Basic –histology –Introductory studies Anatomy, histology and endocrinology of gonads- Ovary and testis Anatomy, histology and endocrinology of adrenal cortex and medulla Anatomy, histology and endocrinology of thyroid and parathyroid glands 	B.Sc. Biological Science (CBCS) DSE6	DSE-6 Endocrinology

		<ul style="list-style-type: none"> • Study of permanent slides • Estimation of Protein by Lowry's method 	B.Sc. (P) Life Sciences Sem. III Batch II	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Study of permanent slides • Estimation of Protein by Lowry's method 	B.Sc. (P) Life Sciences Sem. III Batch III	CC-III, Physiology and Biochemistry
September	Theory	<p>Unit 5: Pancreas and its hormones Glucagon secretion, mechanism of action of both hormones in controlling the blood glucose level. Diabetes mellitus</p> <p>Unit 6: Reproductive endocrinology Female Reproductive system, role of hormones in Female Sexual cycle, placental hormones; parturition and lactation</p>	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practical	<ul style="list-style-type: none"> • Anatomy histology and endocrinology of the hypothalamus and hypophysis • Study of Estrous cycle in rat – identification of stages based on vaginal smears (Photomicrographs) • Understanding surgery-Video demonstration of orchidectomy and Ovariectomy in laboratory rats • Understanding “Compensatory hypertrophy” based on any one model of unilateral surgery 	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology
		<ul style="list-style-type: none"> • Study of permanent slides • Study of activity of salivary amylase 	B.Sc. (P) Life Sciences Sem. III Batch II	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Study of permanent slides • Study of activity of salivary amylase 	B.Sc. (P) Life Sciences Sem. III Batch III	CC-III, Physiology and Biochemistry
October	Theory	Unit 7: Gastrointestinal hormones A brief account of hormones of gastrointestinal tract and kidney	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practical	<ul style="list-style-type: none"> • Anatomy histology and endocrinology of the hypothalamus and hypophysis • Study of Estrous cycle in rat – identification of stages based on vaginal smears (Photomicrographs) 	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology
		<ul style="list-style-type: none"> • Study of permanent slides • Quantitative tests to identify functional groups of carbohydrates 	B.Sc. (P) Life Sciences Sem. III Batch II	CC-III, Physiology and Biochemistry

November	Theory	<ul style="list-style-type: none"> • Study of permanent slides • Quantitative tests to identify functional groups of carbohydrates 	B.Sc. (P) Life Sciences Sem. III Batch III	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Revision 	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practical	<ul style="list-style-type: none"> • Understanding surgery-Video demonstration of orchidectomy and Ovariectomy in laboratory rats • Understanding “Compensatory hypertrophy” based on any one model of unilateral surgery 	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
		<ul style="list-style-type: none"> • Revisions and Practical mock examinations 	B.Sc. (P) Life Sciences Sem. III Batch II	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Revisions and Practical mock examinations 	B.Sc. (P) Life Sciences Sem. III Batch III	CC-III, Physiology and Biochemistry



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. P. S. Dhanaraj

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unit 2: DNA Replication: DNA Replication in prokaryotes and eukaryotes, mechanism of DNA replication.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 1: Kingdom Protista: General characters and classification up to classes; Locomotory Organelles and locomotion in Protozoa.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 2: Porifera: General characteristics and Classification up to classes.	B.Sc. (H) Zoology I Year	CC I Non-Chordates I
	Practicals	Study of polytene chromosomes	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Protozoa, porifera specimens	B.Sc. Life Sciences I year (Batch III)	FLS CC I Animal Diversity
		General survey of Porifera, Coelenterata : specimens and slides.	B.Sc. Life Sciences I Year (Batch II)	FLS CC I Animal Diversity
AUGUST	Theory	Unit 2: DNA Replication: Semi-conservative, bidirectional and semi-discontinuous replication, RNA priming.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 2: Phylum Porifera: General characters and classification up to classes; Canal System in <i>Sycon</i> . Unit 3: Phylum Cnidaria: General characters and classification up to classes.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 2: Porifera: Canal system in sponges.	B.Sc. (H) Zoology I Year	CC I Non-Chordates I
	Practicals:	DNA estimation using diphenylamine, Media preparations, spotting	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Coelenterata, Platyhelminthes, Aschelminthes, Annelida, mollusca, arthropoda specimens	B.Sc. Life Sciences I year (Batch III)	FLS CC I Animal Diversity
		General survey of Platyhelminthes, Nematelminthes, Annelida, Arthropoda: specimens and slides.	B.Sc. Life Sciences I Year (Batch II)	FLS CC I Animal Diversity
SEPTEMBER	Theory	Unit 2: DNA Replication: Replication of circular and linear ds-DNA, replication of telomeres.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 3: Phylum Cnidaria: Polymorphism in Hydrozoa. Unit 4: Phylum Platyhelminthes: General characters and classification up to classes; Life history of <i>Taenia solium</i> .	B.Sc. Life Sciences I year	FLS CC I Animal Diversity

		Unit 3: Cnidaria: General characteristics and Classification up to classes. Metagenesis in <i>Obelia</i> .	B.Sc. (H) Zoology I Year	CC I Non-Chordates I
	Practicals	Demonstration of antibiotic sensitivity/resistance of <i>E. coli</i> to antibiotic pressure Quantitative estimation of RNA using Orcinol reaction	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Porifera, Coelenterata specimens	B.Sc. Life Sciences I year (Batch III)	FLS CC I Animal Diversity
		Phylum Mollusca : General characters and classification up to classes; Torsion and Detorsion.	B.Sc. Life Sciences I Year (Batch II)	FLS CC I Animal Diversity
OCTOBER	Theory	Unit 7: DNA Repair Mechanisms: Pyrimidine dimerization and mismatch repair.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 5: Phylum Nematelminthes: General characters and classification up to classes; Life history of <i>Ascaris lumbricoides</i> and its parasitic adaptations.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 3: Cnidaria: Polymorphism in Cnidaria. Corals and coral reefs.	B.Sc. (H) Zoology I Year	CC I Non-Chordates I
	Practicals:	Electron micrograph studies of DNA replication, transcription and split genes.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Key for identification of poisonous and non-poisonous snakes.	B.Sc. Life Sciences I year (Batch III)	FLS CC I Animal Diversity
		General survey of Pisces, amphibians, reptiles, aves and mammals. Poisonous snakes identification.	B.Sc. Life Sciences I Year (Batch II)	FLS CC I Animal Diversity
	Test	Mid-term Exam.	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Mid-term Exam.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Mid-term Exam.	B.Sc. (H) Zoology I Year	CC I Non-Chordates I
	NOVEMBER	Theory:	Revision and class test.	B.Sc. (H) Zoology III Year
Revision and class test.			B.Sc. Life Sciences I year	FLS CC I Animal Diversity
Revision and class test.			B.Sc. (H) Zoology I Year	FLS CC I Animal Diversity
Practicals:		Mock Test	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Mock Test	B.Sc. Life Sciences I year (Batch III)	FLS CC I Animal Diversity
		Revision and mock test.	B.Sc. Life Sciences I Year (Batch II)	FLS CC I Animal Diversity



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Anita Verma

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Introduction to Physiology. Scope of Studying the subject.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Syllabus overview. Scope of studying the course.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
	Practicals	Syllabus overview, general instructions and maintenance of lab record.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Syllabus overview, general instructions and maintenance of lab record.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Syllabus overview, general instructions and maintenance of lab record.	B.Sc. (Hons) Zoology, Semester-III SEC	Medical Diagnostics
AUGUST	Theory:	Unit 3: Nervous System: Structure of neuron, resting membrane potential, Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers; Types of synapse, Synaptic transmission, Neuromuscular junction; Reflex action and its types - reflex arc; Physiology of hearing and vision.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Unit IV: Dipteran as Disease Vectors: Dipterans as important insect vectors – Mosquitoes, Sand fly, Houseflies; Study of mosquito-borne diseases – Malaria, Dengue, Chikungunya, Viral encephalitis, Filariasis; Control of mosquitoes.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)

Practicals:	Demonstration of the unconditioned reflex action (Deep tendon reflex such as knee jerk reflex). Preparation of temporary mounts: Squamous epithelium, Striated muscle fibres and nerve cells.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
	Study of different orders of insects. Study of mouth parts of insects by permanent slides and dead insects. Evaluation of students on their performance in practical and Record.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
	ABO blood typing, Determination of bleeding time /clotting time, Estimation of haemoglobin.	B.Sc. (Hons) Zoology, Semester-III SEC	Medical Diagnostics

SEPTEMBER	Theory:	<p>Unit 4: Muscle: Histology of different types of muscle.</p> <p>Unit IV: Dipteran as Disease Vectors: Study of sand fly-borne diseases – Visceral Leishmaniasis, Cutaneous Leishmaniasis, Phlebotomus fever; Control of Sand fly. Study of house fly as important mechanical vector, Myiasis, Control of house fly.</p>	<p>B.Sc. (Hons) Zoology, Semester-III</p> <p>B.Sc. Semester-I GE I: Zoology</p>	<p>Animal Physiology: Controlling and Coordinating Systems (CC VI)</p> <p>Insect Vector and Diseases (GE I)</p>
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	Practicals:	<p>Recording of simple muscle twitch with electrical stimulation. Study of permanent slides of Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell, Pituitary, Pancreas, Testis, Ovary, Adrenal, Thyroid and Parathyroid.</p> <p>Study of different insect vectors through slides and specimen.</p> <p>Analysis of abnormal constituents of urine, Differential leucocyte count, Detecting defects of vision by Ishihara Chart.</p>	<p>B.Sc. (Hons) Zoology, Semester-III</p> <p>B.Sc. Semester-I GE I: Zoology</p> <p>B.Sc. (Hons) Zoology, Semester-III SEC</p>	<p>Animal Physiology: Controlling and Coordinating Systems (CC VI)</p> <p>Insect Vector and Diseases (GE I)</p> <p>Medical Diagnostics</p>
OCTOBER	Theory:	<p>Unit 4: Muscle: Ultra structure of skeletal muscle; Molecular and chemical basis of muscle contraction; Characteristics of muscle twitch.</p> <p>Unit IV: Dipteran as Disease Vectors: Management strategies to control vectors.</p>	<p>B.Sc. (Hons) Zoology, Semester-III</p> <p>B.Sc. Semester-I GE I: Zoology</p>	<p>Animal Physiology: Controlling and Coordinating Systems (CC VI)</p> <p>Insect Vector and Diseases (GE I)</p>
	Practicals:	<p>Microtomy: Preparation of permanent slide of any five mammalian (Goat/white rat) tissues. Evaluation of students on their performance in practical and Record.</p> <p>Diseases spread by vectors. Evaluation of students on their performance in practical and Record.</p> <p>Estimation of blood glucose and cholesterol by kit. Body temperature analysis. Blood pressure under normal conditions and under stress. Evaluation of students on their performance in practical and Record.</p>	<p>B.Sc. (Hons) Zoology, Semester-III</p> <p>B.Sc. Semester-I GE I: Zoology</p> <p>B.Sc. (Hons) Zoology, Semester-III SEC</p>	<p>Animal Physiology: Controlling and Coordinating Systems (CC VI)</p> <p>Insect Vector and Diseases (GE I)</p> <p>Medical Diagnostics</p>

	Test:	Mid-term test.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Mid-term test.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)

NOVEMBER	Theory:	Unit 4: Muscle: Motor unit, summation and tetanus.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Revision (Adaptations of insects to become successful vectors revision).	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
	Practicals: (Test)	Mock test and Revision.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Mock test.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Medical imaging techniques. Mock test.	B.Sc. (Hons) Zoology, Semester-III SEC	Medical Diagnostics



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
July- Nov, 2017-2018 (Odd Semester)

Name of the Faculty: Dr. Vartika Mathur

Department: Zoology

Semester: I/III/V: Theory & Practicals: BSc (H) Zoology Semester I (Ecology) & V (Animal Behaviour); Practicals: BSc (H) Zoology Semester I (Ecology)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Introduction; Ecotone & Edge effect	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Origin & History of ethology; Brief profile of Karl von Frisch	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
	Practicals	Determination of dissolved Oxygen (Winkler's method)	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Introduction to animal behavior & chronobiology	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
		Introduction to Zoology Practicals; Study of whole mount of Euglena, Amoeba and Paramecium,	BSc (H) Zoology Semester I	CC I: Non chordata: Protists to pseudocoelomates
AUGUST	Theory	Vertical Stratification, ecological succession: Introduction, process of ecological succession, succession on a rock and in water; theories pertaining to climax community	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Brief profile of Ivan Pavlov, Konrad Lorenz, Niko Tinbergen, Proximate & ultimate causes of behavior, Stereotyped behavior, instinct vs learnt behavior, classical and operant conditioning, altruism	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
	Practicals:	Study of life table and plotting of survivorship curves of different types; Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		To study the behavioural responses of wood lice to humid conditions; To study the behavioural responses of wood lice to dry conditions; to study the geotaxis behavior in earthworm; to study the phototaxis behavior in insect larvae (1 st instar)	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology

		Examination of pond water collected from different places for diversity in Protista; Study of Sycon (T.S. and L.S.), Hyalonema, Euplectella, Spongilla, Study of Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora	BSc (H) Zoology Semester I	CC I: : Non chordata: Protists to pseudocoelomates
SEPTEMBER	Theory	Community characteristics: species richness, dominance, diversity, abundance; What is ecosystem, types of ecosystem; Detailed example of one ecosystem; food chains, food web, energy flow through ecosystem	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Methods and recording of a behavior, associative learning, habituation, imprinting, Sexual behavior, asymmetry of sex, sexual dimorphism, mate choice	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
	Practicals	Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community; Study of an aquatic ecosystem: Study of Phytoplanktons and zooplanktons	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		To study the phototaxis behavior of insect larvae (5 th instar); study the circadian functions in humans (daily eating, sleep and temperature patterns)	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
		One specimen/slide of any ctenophore; Study of adult Fasciola hepatica, Taenia solium and their life cycles (Slides/microphotographs)	BSc (H) Zoology Semester I	CC I: Non chordata: Protists to pseudocoelomates
	Assignment	Succession on a rock (lithosere)/water (hydrosere)	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		One different topic to each student as covered in class	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
	OCTOBER	Theory	Ecological pyramids and ecological efficiencies; nutrient and biogeochemical cycle with example of nitrogen cycle	BSc (H) Zoology Semester I
Intra- sexual selection (Male rivalry), inter-sexual selection (female choice), sexual conflict in parental care; Social behavior, concept of society, communication and senses, insect society with honeybee as example.			BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology

	Practicals:	Determination of pH of water and free CO ₂ of pond water; determination of dissolved oxygen; report preparation and submission on behavioural activity of animals based on field visit.	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		To study the nests and nesting habits of birds and social insects; study and actogram construction of locomotor activity of suitable animal models, report preparation and submission on behavioural activity of animals based on field visit.	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
		Study of adult <i>Ascaris lumbricoides</i> and its life stages (Slides/micro- photographs); To submit a Project Report on any related topic on life cycles/coral/ coral reefs.	BSc (H) Zoology Semester I	CC I : Non chordata: Protists to pseudocoelomates
	<u>Mid Term Test</u>	Unit 3: (community ecology)	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Syllabus covered	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
NOVEMBER	Theory:	Human modified ecosystem	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Foraging in honeybee and advantages of waggle dance	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
	Practicals:	Practice and repetition of practicals; mock practical examination	BSc (H) Zoology Semester I	CC II: Principles of Ecology
		Practice and repetition of practicals; mock practical examination	BSc (H) Zoology Semester V	DSE 1: Animal behavior & chronobiology
		Practice and repetition of practicals; mock practical examination	BSc (H) Zoology Semester I	CC I : Non chordata: Protists to pseudocoelomates



SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Academic Planner: Odd Semester 2017 (July – November)

Name of the Faculty: Dr. Om Prakash

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Immunology Unit 1: Overview of Immune System 10 Historical perspective of Immunology, Early theories of Immunology, Cells and organs of the Immune system.	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
		Ecology Exponential and logistic growth, equation and patterns	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	Immunology Demonstration of lymphoid organs.	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
		Ecology Study of life tables and plotting of survivorship curves of different types from	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		FUNDAMENTALS OF BIOCHEMISTRY Qualitative tests of functional groups in carbohydrates Qualitative tests of functional groups in proteins	B.Sc. (Hons.) Zoology Sem III SZH	CC VII
AUGUST	Theory	Unit 2: Innate and Adaptive Immunity 10 Anatomical barriers, Inflammation, Cell and molecules involved in innate immunity, Adaptive immunity (Cell mediated and humoral), Passive: Artificial and natural Immunity, Active: Artificial and natural Immunity, Immune dysfunctions (brief account	B.Sc. (Hons.) Zoology Sem V TZH	DSE-2

SEPTEMBER	Practicals	Ecology Ecology r and K strategies	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		Immunology Histological study of spleen, thymus and lymph nodes through slides/ photographs Preparation of stained blood film to study	B.Sc. (Hons.) Zoology Sem V TZH	DSE-2
		Ecology Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Theory	FUNDAMENTALS OF BIOCHEMISTRY Paper chromatography of amino acids. Action of salivary amylase under optimum conditions	B.Sc. (Hons.) Zoology Sem III SZH	CC VII
		Immunology Unit 3: Antigens 8 Antigenicity and immunogenicity. Immunogens	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
		Ecology density-dependent and independent factors	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	Ecology Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature,	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		FUNDAMENTALS OF BIOCHEMISTRY Effect of pH on the action of salivary amylase. Effect of temperature on the action of	B.Sc. (Hons.) Zoology Sem III SZH	CC VII

OCTOBER	Theory	Immunology Unit 4: Immunoglobulins 10 Structure and functions of different classes of immunoglobulins, Antigen-antibody interactions, Immunoassays (ELISA and RIA), Polyclonal sera, Hybridoma technology: Monoclonal antibodies in therapeutics and diagnosis Unit 5: Major Histocompatibility Complex 6	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
		Ecology Lotka-Volterra equation for competition and Predation, functional and numerical	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		Practicals Immunology Ouchterlony's double immuno-diffusion method. ABO blood group determination. Cell counting and viability test from splenocytes of farm bred animals/cell lines	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
	Ecology Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and	B.Sc. (Hons.) Zoology Sem I FZH	CC II	
	FUNDAMENTALS OF BIOCHEMISTRY Effect of inhibitors on the action of salivary amylase	B.Sc. (Hons.) Zoology Sem III SZH	CC VII	
	Mid Term Test		Test of Immunology From all units taught	B.Sc. (Hons.) Zoology Sem V TZH
Test of Ecology From all units taught			B.Sc. (Hons.) Zoology Sem I FZH	CC II
NOVEMBER	Theory	Immunology Unit 9: Vaccines 5	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
		Ecology Class discussion and revision of all the topics studied	B.Sc. (Hons.) Zoology Sem I FZH	CC II

Practicals:	Immunology Demonstration of a. ELISA b. Immunoelectrophoresis	B.Sc. (Hons.) Zoology Sem V TZH	DSE 9
	Ecology Report on a visit to National Park/Biodiversity Park/Wild life sanctuary Repetition of all experiments	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	FUNDAMENTALS OF BIOCHEMISTRY Demonstration of proteins separation by SDS-PAGE Repetition of all experiments	B.Sc. (Hons.) Zoology Sem III SZH	CC VII



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Planner: Odd Semester 2017 (July – November)

Name of the Faculty: Dr. Ajaib Singh

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Mendel's Laws and principle of inheritance	B.Sc (Hons) Zoology III year	CCX Principles of Genetics
		Glycolysis, Gluconeogenesis Unit Test, Kreb's cycle	B.Sc (P) Life Sciences IInd Year	CC III Physiology and Biochemistry
		Phylum Annelida: General characters and classification up to classes; Metamerism	B.Sc (P) Life Sciences Ist Year	CCI Animal Diversity
	Practicals	Hypothalamus; structure of hypothalamus, names and functions of important hypothalamic nuclei, neuroendocrine regulation of endocrine glands and feedback mechanisms.	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
		Preparation of hemin crystals from human blood	B.Sc (P) Life Sciences IInd Year	Physiology and Biochemistry
		General survey of Porifera, Coelenterata : specimens and slides	B.Sc Life Sciences Ist Year	Animal Diversity
		Demonstration of proteins separation by SDS- PAGE.	B.Sc (Hons) Zoology IInd Year	Fundamentals of Biochemistry
AUGUST	Theory	Incomplete dominance and co-dominance, Multiple alleles, Lethal alleles	B.Sc (Hons) Zoology III year	CCX Principles of Genetics
		Review of electron transport chain. Beta-oxidation and biosynthesis, hypothalamus, pituitary, pineal gland	B.Sc (P) Life Sciences IInd Year	CC III Physiology and Biochemistry

		Phylum Arthropoda :General characters and classification up to classes; Vision in Arthropoda, Metamorphosis in Insects Metamorphosis in Insects	B.Sc (P) Life Sciences Ist Year	CCI Animal Diversity
		Pituitary Gland, structure of pituitary, its hormones, their secretion, transportation, storage, functions and hypothalamic regulation; disorders of pituitary gland.	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practicals:	Preparation of haemochromogen crystals from human blood. Estimation of total protein in given solution by Lowry's method. Study of activity of salivary amylase under optimum conditions.	B.Sc (P) Life Sciences IInd Year	Physiology and Biochemistry
		General survey of Platyhelminthes, Nematelminthes, Annelida, Arthropoda: specimens and slides	B.Sc Life Sciences Ist Year	Animal Diversity
		Qualitative tests of functional groups in carbohydrates, proteins and lipids.	B.Sc (Hons) Zoology IInd Year	Fundamentals of Biochemistry
SEPTEMBER	Theory	Epistasis, Pleiotropy, Sex-linked, sex-influenced and sex-limited characters inheritance.	B.Sc (Hons) Zoology III year	CCX Principles of Genetics
		Glycogen metabolism: Glycogenesis and Glycogenolysis. Unit Test, HMP shunt Adrenal, thyroid, gonadotropins	B.Sc (P) Life Sciences IInd Year	CC III Physiology and Biochemistry
		Phylum Mollusca : General characters and classification up to classes; Torsion and Detorsion	B.Sc (P) Life Sciences Ist Year	CCI Animal Diversity
		Structural of Adrenal Gland – Synthesis and structure of hormones of the adrenal cortex and medulla; Biological Action of glucocorticoids, mineralocorticoids, adrenaline and noradrenaline on carbohydrate and protein metabolism; and cardiovascular system.	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practicals	Qualitative tests to identify functional groups in carbohydrates. Study of permanent histological sections of pituitary, adrenal, thyroid gland.	B.Sc (P) Life Sciences IInd Year	Physiology and Biochemistry

		General survey of Mollusca, Arthropoda, Echinodermata, Hemichordata: specimens and slides	B.Sc Life Sciences Ist Year	Animal Diversity
		Action of salivary amylase under optimum conditions. Effect of pH on the activity of salivary amylase	B.Sc (Hons) Zoology IInd Year	Fundamentals of Biochemistry
OCTOBER	Theory	Criteria for extra-chromosomal inheritance, Antibiotic resistance in <i>Chlamydomonas</i> , Mitochondrial mutations in <i>Saccharomyces</i> , Infective heredity in <i>Paramecium</i> and Maternal effects	B.Sc (Hons) Zoology III year	CCX Principles of Genetics
		Transamination, Deamination, Urea Cycle, Reproductive physiology	B.Sc (P) Life Sciences IInd Year	CC III Physiology and Biochemistry
		Phylum Echinodermata: General characters and classification up to classes; Water vascular system	B.Sc (P) Life Sciences Ist Year	CCI Animal Diversity
		Male Reproductive system; hormonal control of testes; chemistry and biosynthesis of testosterone, functions of testosterone.	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practicals:	Study of permanent slides of spinal cord, duodenum, liver, lung, kidney, bone, cartilage. Revision of above experiments	B.Sc (P) Life Sciences IInd Year	Physiology and Biochemistry
		General survey of Pisces, amphibians, reptiles, aves and mammals. Poisonous snakes identification	B.Sc Life Sciences Ist Year	Animal Diversity
		Effect of temperature and inhibitors on the action of salivary amylase. Paper chromatography of amino acids	B.Sc (Hons) Zoology IInd Year	Fundamentals of Biochemistry
NOVEMBER	Theory:	Internal assessment assignments and tests	B.Sc (Hons) Zoology III year	CCX Principles of Genetics
		Assignment Revision and Unit tests	B.Sc (P) Life Sciences IInd Year	CC III Physiology and Biochemistry
		Assignments, Revisions and Tests	B.Sc (P) Life Sciences Ist Year	CCI Animal Diversity

		Revision, Assignment and test	B.Sc (Hons) Biological Sciences IIIrd Year	DSE6 Endocrinology
	Practicals:	Mock test Revision of practicals.	B.Sc (P) Life Sciences IInd Year	Physiology and Biochemistry
		Revision and mock test	B.Sc Life Sciences Ist Year	Animal Diversity
		Revisions and mock tests	B.Sc (Hons) Zoology IInd Year	Fundamentals of Biochemistry



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

July-November 2017, (Session 2017-18)

Name of the Faculty: Dr. Rajendra Phartyal

Department: Zoology

Semester: I, III: Theory: B.Sc. H . Biological Science Sem I(Light and Life), B.Sc. H . Biological Science sem III (Functional Ecology), B.Sc. H . Zoology Sem V(Principles of Genetics)

Practicals : B.Sc. H . Biological Science Sem I(Light and Life), B.Sc. H . Biological Science Sem III (Functional Ecology), BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)

Month		Topics	Course	Paper Code/Name
JULY	Theory:	General Introduction: Nature of light.	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		General Introduction, Population : Unitary and Modular populations, metapopulation	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		Types of gene mutations (Classification)	B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)
	Practicals :	General Introduction , light penetration in water using Secchi disc	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		<ul style="list-style-type: none"> • Plotting of survivorship curves from hypothetical life table data. • To determine a minimal quadrat area for sampling in the given simulation sheet 	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		Syllabus overview, general instructions and maintenance of lab record	BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)	CC VI
AUGUST	Theory:	Light as an ecological factor affecting distribution of plants and animals (Phyto and Zoo geography), in terrestrial and aquatic ecosystems: Morphological, Anatomical, Physiological and Behavioral adaptations to extreme light conditions by organisms. spectrum of light which is useful/ harmful (ionizing radiation) for various biological processes in life of plants and animals.	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)

		Density, natality, mortality, life tables, fecundity tables, survivorship curves, age ratio, sex ratio, dispersal and dispersion; carrying capacity, population dynamics (exponential and logistic growth equation and patterns), r and K selection, density-dependent and independent population regulation; Competition, Niche concept	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		Types of chromosomal aberrations (Classification, figures and with one suitable example of each), Molecular basis of mutations in relation to UV light and chemical mutagens	B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)
	Practicals :	<ul style="list-style-type: none"> Animal migration in aquatic ecosystems during day and night (pictures only) To study the effect of light and darkness on the chromatophores of fish To study Diurnal variations in human body temperature\ To test / survey for colour blindness using Ishihara charts 	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		<ul style="list-style-type: none"> To determine density /frequency /abundance of the vegetation by quadrat method in the field or on given simulation sheet <ul style="list-style-type: none"> Principle and function of Sechi disc, Atmometer, Anemometer, Hygrometer, Hair hygrometer, Luxmeter, Rain guage, Soil thermometer, Min-Max thermometer Study through specimens/photographs/slides of Parasitic angiosperms, Saprophytic angiosperms, VAM fungi, Root nodules, Corolloid roots, Mycorrhizal roots, Velamen roots, Lichen as pollution indicators. To estimate dissolved oxygen content of given water sample using Winkler's method. 	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		<ul style="list-style-type: none"> Demonstration of the unconditioned reflex action (Deep tendon reflex such as knee jerk reflex). Preparation of temporary mounts: Squamous epithelium, Striated muscle fibres and nerve cells. 	BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)	CC VI
SEPTEMBER	Theory:	Bioluminescence :Definition, discovery, diversity of organisms (plants and animals), photoreceptors distribution, mechanism. Circadian rhythms, jetlag, rhythm of heart beat,	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		Competition, Niche concept, Gause's Principle with laboratory and field examples, LotkaVolterra equation for competition and Predation, functional and numerical responses. Phenotypic and genotypic plasticity, canalization. Species interactions in brief classified based on their reciprocal effects.	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		General Introduction, Population : Unitary and Modular populations, metapopulation	B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)

	Practicals :	<ul style="list-style-type: none"> Photographs of bioluminescent organisms (plants and animals), <i>Berlese</i> funnel experiment to demonstrate the effect of light on soil fauna To study the effect of light/darkness on development of insect (<i>Spodoptera</i>) To study the phototactic behavior of different larval instars of <i>Spodoptera</i> 	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		<ul style="list-style-type: none"> To determine soil texture, soil density, bulk density, particle density and pore space. To determine water holding capacity and percolation rate of soil. To determine pH, Cl, SO₄, NO₃, base deficiency, organic matter, cation exchange capacity in the soil. 	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		<ul style="list-style-type: none"> Recording of simple muscle twitch with electrical stimulation. Study of permanent slides of Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell, Pituitary, Pancreas, Testis, Ovary, Adrenal, Thyroid and Parathyroid. 	BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)	CC VI
	<u>Assignment</u>		B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
			B.Sc. H . Biological Science sem III	BS-C7 Functional Ecology)
			B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)
OCTOBER	Theory	Light as an inducer for biosynthesis of enzymes, hormones and other biomolecules melanocytes and skin colour, chromatophores and colour changes in animals.	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		Social, reproductive & territorial behavior, kin selection. Evolution of optimal life history, tradeoffs, semelparity and iteroparity	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		Detection of mutations: CLB method, attached X method	B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)
	Practicals :	<ul style="list-style-type: none"> To study the estrous cycle of rat Revision 	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		<ul style="list-style-type: none"> Revision of minimal quadrat and determination of density /frequency /abundance of the vegetation by quadrat method Revision of Dissolved Oxygen Revision of Soil Parameters 	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)

		<ul style="list-style-type: none"> • Microtomy: Preparation of permanent slide of any five mammalian (Goat/white rat) tissues. • Evaluation of students on their performance in practical and Record. 	BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)	CC VI
	<u>Mid Term Test</u>		B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
			B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
			B.Sc. H . Zoology Sem I	CC-II (Principles of ecology)
NOVEMBER	Theory:	Photoreception in animals, evolution of eye and visual processing in vertebrate retina.	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		reproductive structure and mating system	B.Sc. H . Biological Science sem III (BS-C7 (Functional Ecology)
		Chromosomal mechanisms of sex determination in Drosophila and Man	B.Sc. H . Zoology Sem V	CC-XII (Principles of Genetics)
	Practicals :	<ul style="list-style-type: none"> • Revision • Mock Practical test 	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		<ul style="list-style-type: none"> • Revision • Mock Practical test 	B.Sc. H . Biological Science sem III	BS-C7 (Functional Ecology)
		<ul style="list-style-type: none"> • Revision • Mock Practical Test • Submission of practical files 	BSc (H) Zoology Semester III (Animal Physiology: Controlling And Coordinating Systems)	CC VI



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Mansi Verma

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name	
JULY	Theory	Unit 1: Nucleic Acids: Salient features of DNA and RNA; Watson and Crick Model of DNA Unit 3: Transcription: RNA polymerase and transcription Unit	B.Sc. (H) Zoology III Year	Molecular Biology CC XI	
		Unit 7: Recombination in Bacteria and Viruses: Conjugation	B.Sc. (H) Zoology III Year	Principles of Genetics CC XII	
		Unit 5: Enzymes: Nomenclature and classification; Cofactors;	B.Sc. (H) Zoology II Year	Fundamentals of Biochemistry	
	Practicals	Study of polytene chromosomes	B.Sc. (H) Zoology III Year	Molecular Biology CC XI	
		Protozoa, porifera specimens	B.Sc. Life Sciences I year	Animal Diversity Batch III	
		Protochordata Specimens	B.Sc. (H) Zoology II	Diversity of Chordata	
AUGUST	Theory	Unit 3: Transcription: RNA polymerase and transcription Unit, mechanism of transcription in prokaryotes and eukaryotes, synthesis of rRNA and mRNA, transcription factors Unit 4: Translation: Genetic code, degeneracy of genetic code and Wobble hypothesis; Process of protein synthesis in prokaryotes	B.Sc. (H) Zoology III Year	Molecular Biology CC XI	
		Unit 7: Recombination in Bacteria and Viruses: Conjugation, Transformation, Transduction	B.Sc. (H) Zoology III Year	Principles of Genetics CC XII	
		Unit 5: Enzymes: Specificity of enzyme action; Isozymes; Mechanism of enzyme action; Enzyme kinetics; Factors affecting rate of enzyme-catalyzed reactions; Derivation of Michaelis-Menten equation	B.Sc. (H) Zoology II Year	Fundamentals of Biochemistry	
		Practicals:	DNA estimation using diphenylamine, Media preparations, spotting	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
			Coelenterata, Platyhelminthes, Aschelminthes, Annelida, mollusca, arthropoda specimens	B.Sc. Life Sciences I year	Animal Diversity Batch III
			Protochordata slides, cyclostomata, pisces, amphibians	B.Sc. (H) Zoology II	Diversity of Chordata

SEPTEMBER	Theory	Unit 4: Translation: Inhibitors of protein synthesis, difference between prokaryotic and eukaryotic translation	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 5: Post transcriptional modifications and processing of eukaryotic RNA		
		Unit 6: Gene regulation: Transcription regulation in prokaryotes (introduction)		
		Unit 7: Recombination in Bacteria and Viruses: Complementation test in Bacteriophage	B.Sc. (H) Zoology III Year	Principles of Genetics CC XII
		Unit 8: Transposable Genetic Elements: Transposons in Bacteria.		
		Unit 5: Enzymes: Concept of Km and Vmax, Lineweaver-Burk plot; Multi-substrate reactions; Enzyme inhibition; Allosteric enzymes and their kinetics;	B.Sc. (H) Zoology II Year	Fundamentals of Biochemistry
	Practicals	Demonstration of antibiotic sensitivity/resistance of E. coli to antibiotic pressure Quantitative estimation of RNA using Orcinol reaction	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Porifera, Coelenterata specimens	B.Sc. Life Sciences I year	Animal Diversity Batch III
		Amphibians, Reptiles, Aves, Mammals	B.Sc. (H) Zoology II	Diversity of Chordata
	<u>Assignment</u>			
OCTOBER	Theory	Unit 6: Gene regulation: lac operon, trp operon, transcription regulation in eukaryotes, gene silencing, genetic imprinting	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 8: Transposable genetic elements: Ac-Ds elements in maize and P elements in Drosophila	B.Sc. (H) Zoology III Year	Principles of Genetics CC XII
		Unit 5: Enzymes: Regulation of enzyme action	B.Sc. (H) Zoology II Year	Fundamentals of Biochemistry
	Practicals:	Electron micrograph studies of DNA replication, transcription and split genes	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Key for identification of poisonous and non-poisonous snakes	B.Sc. Life Sciences I year	Animal Diversity Batch III
		Powerpoint presentation of animals by students	B.Sc. (H) Zoology II	Diversity of Chordata
	<u>Mid Term Test</u>			

NOVEMBER	Theory:	Unit 8: Regulatory RNAs: Riboswitches, RNA interference, miRNA, siRNA	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Unit 8: Transposable genetic elements: Transposons in humans	B.Sc. (H) Zoology III Year	Principles of Genetics CC XII
		Revision	B.Sc. (H) Zoology II Year	Fundamentals of Biochemistry
	Practicals:	Mock Test	B.Sc. (H) Zoology III Year	Molecular Biology CC XI
		Mock Test	B.Sc. Life Sciences I year	Animal Diversity Batch III
		Mock Test	B.Sc. (H) Zoology II	Diversity of Chordata



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Academic Planner: Odd Semester 2017 (July – November)

Name of the Faculty: Dr.P.Jayaraj

Department: Zoology

Semester : V

Course: B.Sc. (Hons.) Biological Science Part III

Paper Title: Growth and reproduction (core course XI/code BS-C11/DSE-1)

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unit 1- General Growth Pattern in Animals, Types of	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS- C11/DSE-1)
		Molecular Techniques in Gene manipulation (Introduction)	B.Sc. Life Sciences Part III	DSE Biotechnology
	Practicals	Study Of Whole Mounts Of Frog		Growth and reproduction (core course XI/code BS
		Exercise No. 6: Introduction and file /record maintenance	B.Sc. Life Sciences Part III	DSE Biotechnology
		<ul style="list-style-type: none"> • Anatomical location of endocrine organs in human An overview of hormones secreted by various glands	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology

AUGUST	Theory:	Unit 2/3: Pre fertilization events- gmetogenesis-spermatogenesis and oogenesis <ul style="list-style-type: none"> • Neural tube formation • Placenta: Function and types • Extra Embryonic membranes in chick and mammal 	B.Sc. (Hons.) Zoology Part III	Growth and reproduction (core course XI/code BS)
		<ul style="list-style-type: none"> • Restriction enzymes: Nomenclature, detailed study of Type.II. • Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda Bacteriophage,M13, BAC, YAC, MAC 	B.Sc. Life Sciences Part III	DSE Biotechnology
	Practicals:	Unit 2/3: <ul style="list-style-type: none"> • Study of Developmental Stages of Frog – Neural tube formation • Study of permanent sections- Neural plate, Neural fold, Neural tube • Tadpole-external gill and internal gill stage • Videos showing selective embryonic events embryonic events : Frog 	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS)
		Exercise No. 6: To study following techniques through photographs: d)DNA Sequencing (Sanger's Method), e) PCR. Exercise No. 1: Genomic DNA isolation from <i>E. coli</i>	B.Sc. Life Sciences Part III	DSE Biotechnology

		<ul style="list-style-type: none"> • Basic –histology –Introductory studies • Anatomy, histology and endocrinology of gonads- Ovary and testis • Anatomy, histology and endocrinology of adrenal cortex and medulla • Anatomy, histology and endocrinology of thyroid and 	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology
SEPTEMBER	Theory:	Unit 3 cont.. Embryonic induction, Gastrulation in Chick	B.Sc. (Hons.) Biological Science Part III	
		<ul style="list-style-type: none"> • Expression vectors (characteristics) • Unit 3: Genetically Modified Organisms Production of cloned and transgenic animals: Nuclear Transplantation, Retroviral Method, DNA microinjection	B.Sc. Life Sciences Part III	DSE Biotechnology

Practicals :	Study of developmental stages Chick embryo (whole mounts) Study of Chick development from live eggs (Windowiewing)		Growth and reproduction (core course XI/code BS
	<ul style="list-style-type: none"> • Anatomy histology and endocrinology of the hypothalamus and hypophysis • Study of Estrous cycle in rat –identification of stages based on vaginal smears (Photomicographs) • Understanding surgery-Video demonstration of orchidectomy and Ovariectomy in laboratory rats Understanding “ Compensatory hypertrophy” based on any one model of unilateral surgery	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology
Assignment :	Separate topics will be assigned to students	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS

OCTO BER	Theory:	Post fertilization events ; Gastrulation in humans Fate of Germ layers Embryonic induction	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS
		<ul style="list-style-type: none"> Applications of transgenic animals: Production of pharmaceuticals, production of donor organs, knockout mice. Production of transgenic plants:	B.Sc. Life Sciences Part III	DSE Biotechnology
	Practical s:	Study of section of chick embryo through selective developmental stages	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS
		Exercise No. 4: Construction of circular and linear restriction map from the data provided. Exercise No. 5: Calculation of transformation efficiency from the data provided. Exercise No. 6: To study following techniques through photographs a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Part III	DSE Biotechnology
		<ul style="list-style-type: none"> Anatomy histology and endocrinology of the hypothalamus and hypophysis Study of Estrous cycle in rat –identification of stages based on vaginal smears (Photomicrographs) 	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology
	<u>Test</u>	Test on topics covered during the month of July-october end	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS
	<u>Test /internal assessment :</u> Test on topics covered during the month of July-october end	B.Sc. Life Sciences Part III	DSE Biotechnology	

NOVEMBER	Theory:	Organogenesis: Formation of CNS	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS
		Applications of transgenic plants: insect and herbicide resistant plants. Unit 4: Culture Techniques and Applications Animal cell culture, Expressing cloned genes in mammalian cells, Molecular diagnosis of genetic diseases (Cystic fibrosis, Sickle cell anemia) Recombinant DNA in medicines: Recombinant insulin and human growth hormone, Gene therapy	B.Sc. Life Sciences Part III	DSE Biotechnology
	Practicals:	Submission of File <ul style="list-style-type: none"> • Preparations for Practical Examination • Mock Tests 	B.Sc. (Hons.) Biological Science Part III	Growth and reproduction (core course XI/code BS-C11/DSE-1)
		Exercise No. 7: Evaluation of the report on animal cell culture Revision of crucial exercises Mock practical examination.	B.Sc. Life Sciences Part III	DSE Biotechnology
		<ul style="list-style-type: none"> • Understanding surgery-Video demonstration of orchidectomy and Ovariectomy in laboratory rats Understanding “ Compensatory hypertrophy” based on any one model of unilateral surgery	B.Sc. Biological Science (CBCS) DSE 6	DSE-6 Endocrinology



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Name of the Faculty: Dr. Riyaz Ahmed Bakshi

Department: Zoology

Semester: III

August,2017

Month		Topics	Course	Paper Code/Name
JULY	Theory	<ul style="list-style-type: none"> Introduction to medical diagnostics 	B.Sc. (H) Zoology Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> Introduction to medical diagnostics 	B.Sc (P) Life Sciences Sem. III	SEC: Medical Diagnostics
	Practicals	<ul style="list-style-type: none"> ABO Blood Typing 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> Preparation of hemin and hemochromogen crystals. 	B.Sc. (P) Life Sciences Sem. III	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> ABO Blood typing 	B.Sc. (P) Life Sciences Sem III	SEC: Medical Diagnostics
AUGUST	Theory	<ul style="list-style-type: none"> Blood DLC, PCV,ESR 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> Blood DLC, PCV,ESR 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		Potable water- sources and methods of purification at domestic level	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
	Practicals:	<ul style="list-style-type: none"> Estimation of Haemoglobin Interpretation of ECG Blood Pressure and body temp. 	B.Sc. (H) Zoolgy Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> Study of permanent slides. Estimation of Protein by Lowry's method. 	B.Sc. (P) Life Sciences Sem III	CC-III, Physiology and Biochemistry

		<ul style="list-style-type: none"> • Estimation of haemoglobin content using Sahli's haemoglobinometer • Body temperature and blood pressure under normal and stress condition 	B.Sc. (P) Life Sciences Sem III	SEC: Medical Diagnostics
SEPTEMBER	Theory	<ul style="list-style-type: none"> • Urine Analysis: Normal and Abnormal • Diabetes-I & II • Hypertension • Testing of blood glucose 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Urine Analysis: Normal and Abnormal • Diabetes-I & II • Hypertension • Testing of blood glucose 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Bacterial infection: Cholera, typhoid fever, dysentery • Viral infection: Hepatitis, Poliomyelitis • Protozoan infection: amoebiasis. 	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
	Practicals	<ul style="list-style-type: none"> • DLC • Estimation of blood glucose/cholesterol • Determination of bleeding/Clotting time 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Study of permanent slides • Study of activity of salivary amylase. 	B.Sc (P) Life Sciences Sem III	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Analysis of urine for abnormal constituents • Differential leukocyte count • Determination of bleeding time/clotting time 	B.Sc (P) Life Sciences Sem III	SEC: Medical Diagnostics
	<u>Assignment</u>	<ul style="list-style-type: none"> • Infectious diseases • Non infectious diseases • Tumors and types 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Infectious diseases • Non infectious diseases • Tumors and types 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Food and Water borne infections • Bacterial infection • Protozoan infection • Parasitic infection 	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
OCTOBER	Theory	<ul style="list-style-type: none"> • Infectious diseases • Tumors and types • Medical imaging- X-Ray, MRI, CT Scan 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics

		<ul style="list-style-type: none"> • Infectious diseases • Tumors and types • Medical imaging- X-Ray, MRI, CT Scan 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Parasitic infection • Brief account of food spoilage 	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
	Practicals:	<ul style="list-style-type: none"> • Analysis of Urine for Abnormal constituents. • Color vision test by Ishihara charts • Medical imaging- X-Ray, MRI, CT Scan 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Study of permanent slides • Quantitative tests to identify functional groups of carbohydrates. 	B.Sc. (P) Life Sciences Sem. III	CC-III, Physiology and Biochemistry
		<ul style="list-style-type: none"> • Estimation of blood glucose/cholesterol by kit • Detection of colour vision by Ishihara charts • Medical imaging: X-rays of bone fracture, MRI, CT scan 	B.Sc. (P) Life Sciences Sem III	SEC: Medical Diagnostics
	<u>Mid Term Test</u>	<ul style="list-style-type: none"> • Test of covered topics 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Test of covered topics 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Test of covered topics 	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
NOVEMBER	Theory:	<ul style="list-style-type: none"> • Revisions 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Revisions 	B.Sc. (P) Life Sciences Sem. III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Revisions 	B.Sc. (H) Sem III	GE-6, Food, Nutrition &Health
	Practicals:	<ul style="list-style-type: none"> • Revisions and Practical mock examinations 	B.Sc. (H) Zoology Sem III	SEC: Medical Diagnostics
		<ul style="list-style-type: none"> • Revisions and Practical mock examinations 	B.Sc. (P) Life Sciences Sem. III	CC-III, Physiology and Biochemistry
			<ul style="list-style-type: none"> • Revisions and Practical mock examinations 	B.Sc. (P) Life Sciences Sem III



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
July – November, 2017-18 (Odd Semester)

Name of the Faculty: Dr. Vagisha Rawal
Department: Zoology
Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Animal behavior and chronobiology <ul style="list-style-type: none"> Unit-5 Biological Rhythm Types and characteristics biological rhythm: short and long term cycles, 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology
		Non-chordata-I <ul style="list-style-type: none"> Unit-III : Porifera General characteristics and classification upto classes 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect vector & diseases : <ul style="list-style-type: none"> General Features of Insects, Types of Antennae and mouthparts 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
	Practicals	Animal behavior and chronobiology <ul style="list-style-type: none"> Different types of nests and nesting habits in birds and social insects 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology
		Non-chordata I: To study the following specimens through permanent slides <ul style="list-style-type: none"> Phylum:Protozoa Amoeba, Euglena, Paramecium, binary fission, conjugation 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect vector & diseases : General introduction, Insect classification and Identification	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
AUGUST	Theory	Animal behavior and chronobiology biological rhythm <ul style="list-style-type: none"> Circadian Rhythm, Tidal Rhythm & Lunar Rhythms, Concept of synchronization And masking 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology

		Non-chordata-I <ul style="list-style-type: none"> Type study of Sycon Canal system in sycon 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect vector & diseases : Unit-1: introduction to insects <ul style="list-style-type: none"> Structure of insect eye Types of mouthparts and feeding mechanisms Insect classification up to orders Unit-2 : <ul style="list-style-type: none"> Concept of vectors: brief introduction Of carrier and vector, reservoirs, host-vector relationship, vectorial capacity, adaptations as vectors, host specificity. 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
	Practicals:	Animal behavior and chronobiology <ul style="list-style-type: none"> To study the behavioural responses of woodlice in dry and humid conditions To study the nesting habits in birds and social insects 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology
		Non-chordata I: <ul style="list-style-type: none"> Study of Sycon (T.S. & L.S.) Porifera: Sycon, Hyalonema, Euplectella, Spongilla Study of Obelia, Physalia, Aurelia, tubipora, Metridium, Corallium, Alcyonium. Gorgonian, Pennatula, Fungia, Meandrina, Madrepora. 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect vector & diseases : GE <ul style="list-style-type: none"> Study of different insect vectors through permanent slides: Anopheles, Aedes, Culex, Pediculus, Flea, Tsetse fly, Cimex, Housefly, Thrips 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
SEPTEMBER	Theory	Animal behavior and chronobiology <ul style="list-style-type: none"> Photic and non-photic zeitgebers Circannual rhythms, photoperiod and regulation of seasonal reproduction of vertebrates, role of melatonin 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology

	<p>Non-chordata I Phylum Porifera</p> <ul style="list-style-type: none"> • Canal system in sponges • Introduction to Metazoa 	<p>B.Sc. (Hons.) Zoology Sem I</p> <p>FZH</p>	<p>Non-chordata-I CC-I</p>
	<p>Insect vector & diseases : GE</p> <ul style="list-style-type: none"> • Concept of vectors: brief introduction Of carrier and vector, reservoirs, host-vector relationship, vectorial capacity, adaptations as vectors, host specificity. • Siphonaptera as disease vectors: fleas As important insect vector , host specificity, study of Flea borne diseases plague, typhus fever control of flea 	<p>B.Sc. (Hons.) Zoology Sem I</p> <p>FZH</p>	<p>Insect vector & diseases GE-8</p>
Practicals	<p>Animal behaviour and chronobiology</p> <ul style="list-style-type: none"> • To study geotaxis behavior in earthworm • Study and actogram construction of locomotor activity of suitable animal models 	<p>B.Sc. (Hons.) Zoology Sem V</p>	<p>DSE 1: Animal behavior & chronobiology</p>
	<p>Non-chordata I</p> <ul style="list-style-type: none"> • Platyhelmenthes: life cycle and pathogenesis Taenia solium, Ascaris, • Making of project report on coral and coral reefs 	<p>B.Sc. (Hons.) Zoology Sem I</p>	<p>Non-chordata-I CC-I</p>
	<p>Insect Vector and Diseases</p> <ul style="list-style-type: none"> • Project report on Medically important insects 	<p>B.Sc. (Hons.) Zoology Sem I</p>	<p>Insect vector & diseases GE-8</p>
<u>Assignment</u>	<p>Animal behavior and chronobiology Topic: Animal behavior related concepts</p>	<p>B.Sc. (Hons.) Zoology Sem V TZH</p>	<p>DSE 1: Animal behavior & chronobiology</p>
	<p>Non-chordata I Polymorphism in coelenterates And Parasitic adaptations in helminthes</p>	<p>B.Sc. (Hons.) Zoology Sem I</p> <p>FZH</p>	<p>Non-chordata-I CC-I</p>
	<p>Insect Vector and Diseases</p> <ul style="list-style-type: none"> • Mosquito borne diseases and its prevention and control 	<p>B.Sc. (Hons.) Zoology Sem I</p> <p>FZH</p>	<p>Insect vector & diseases GE-8</p>

OCTOBER	Theory	Animal behavior and chronobiology <ul style="list-style-type: none"> • Relevance of biological clocks, Chronopharmacology, Chronomedicine, Chronotherapy. 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology
		Non-chordata I Unit 3: Cnidaria <ul style="list-style-type: none"> • General features and classification up to classes • Metagenesis in <i>Obelia</i> • Polymorphism in Cnidaria 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect Vector and Diseases <ul style="list-style-type: none"> • Siphunculata as disease vectors: human louse (head louse, body & pubic louse), study of louse borne diseases- Typhus fever, Relapsing fever, Trench fever, Vagabond's disease, Phthiriasis, control of human louse 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
	Practicals:	Animal behaviour and chronobiology <ul style="list-style-type: none"> • To study the phototaxis behavior in insects • Study of circadian function in humans (daily eating, sleep, and temperature pattern) • Visit to Delhi Zoo 	B.Sc. (Hons.) Zoology Sem V TZH	DSE 1: Animal behavior & chronobiology
		Non-Chordata I <ul style="list-style-type: none"> • Study of adult <i>Fasciola hepatica</i>, <i>Taenia solium</i>, • Study of adult <i>Ascaris lumbricoides</i> and its life stages (slides/ photographs) • Examination of pond water collection from different places for diversity in protista 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect Vector and Diseases <ul style="list-style-type: none"> • Study of different diseases transmitted by insect vectors 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8

	Mid Term Test	Animal behavior and chronobiology <ul style="list-style-type: none"> • TEST WILL INCLUDE ALL THE TOPICS COVERD TILL THEN 	B.Sc. (Hons.) Zoology Sem V TZH	DSE-2
		Non-chordata-I <ul style="list-style-type: none"> • TEST WILL INCLUDE ALL THE TOPICS COVERD TILL THEN 	B.Sc. (Hons.) Zoology Sem I FZH	Non-chordata-I CC-I
		Insect Vector and Diseases <ul style="list-style-type: none"> • TEST WILL INCLUDE ALL THE COVERD TOPICS TILL THEN 	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
NOVEMBER	Theory:	Animal behavior and chronobiology <ul style="list-style-type: none"> • Revision 	B.Sc. (Hons.) Zoology Sem V	DSE 1: Animal behavior & chronobiology
		Non-chordata I <ul style="list-style-type: none"> • Coral and coral reefs 	B.Sc. (Hons.) Zoology Sem I	Non-chordata-I CC-I
		Insect Vector and Diseases <ul style="list-style-type: none"> • Study of louse borne diseases and its control 	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
	Practicals:	Animal behavior and chronobiology <ul style="list-style-type: none"> • Revision/ mock exam 	B.Sc. (Hons.) Zoology Sem V	DSE 1: Animal behavior & chronobiology
		Non-chordata I <ul style="list-style-type: none"> • Revision/ mock exam 	B.Sc. (Hons.) Zoology Sem I	Non-chordata-I CC-I
		Insect Vector and Diseases <ul style="list-style-type: none"> • Revision/ mock exam 	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Richa Misra

Department: Zoology

Semester: I/III/V (ODD)

Month		Topics	Course	Paper Code/Name
JULY	Theory (1+1+1+2+1)	Introduction to Genetics	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Introduction to Immunology	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Introduction to Biotechnology	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
		Introduction to Animal Diversity/Overall Classification	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
		Introduction to Cell Biology	B.Sc. (H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology
	Practicals	Introduction to Mendelian Genetics, Maintaining records	B.Sc. (H) Zoology III Year	CC-XII/Principles of Genetics
		Introduction to Biotechnology, Maintaining records	B.Sc. Life Sciences Semester V (Batch 1)	DSE/ Animal Biotechnology
		Introduction to Biotechnology, Maintaining records	B.Sc. Life Sciences Semester V (Batch 2)	DSE/ Animal Biotechnology
	AUGUST	Theory (1+1+1+2+1)	Unit 6: Polygenic Inheritance	B.Sc. (H) Zoology V Sem
Unit 6: Cytokines			B.Sc. (H) Zoology V Sem	DSE/Immunology
Unit 1: Concept and scope of biotechnology/ Basic concept of Cloning			B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
Unit 10: Protochordates, General features and Affinities of Hemichordates Unit 11: Agnatha 2 General features of Agnatha and classification of cyclostomes Unit 12: Pisces General features and Classification up to orders; Osmoregulation in Fishes			B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
Unit 1: An Overview of Cells and Techniques in Cell Biology (History, Cell theory, Overview of Prokaryotic and Eukaryotic Cells, Plant and Animal cells, exceptions to cell theory, Phages, Virioids, Mycoplasmas, Prions)			B.Sc.(H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology
Practicals		Exercise No. 5: Study of human karyotype (normal and abnormal). Exercise No. 6: Pedigree analysis of some human inherited traits.	B.Sc. (H) Zoology III Year	CC-XII/Principles of Genetics

		Exercise No. 6: To study following techniques through photographs: d)DNA Sequencing (Sanger's Method), e) PCR. Exercise No. 1: Genomic DNA isolation from <i>E. coli</i>	B.Sc. Life Sciences Semester V (Batch 1)	DSE 1/ Animal Biotechnology
		Exercise No. 6: To study following techniques through photographs: d)DNA Sequencing (Sanger's Method), e) PCR. Exercise No. 1: Genomic DNA isolation from <i>E. coli</i>	B.Sc. Life Sciences Semester V (Batch 2)	DSE 1/ Animal Biotechnology
SEPTEMBER	Theory (1+1+1+2+1)	Unit 2: Linkage, Crossing Over and Chromosomal Mapping (Linkage and crossing over, Cytological basis of crossing over, Molecular mechanisms of crossing over including models of recombination, Recombination frequency as a measure of linkage intensity)	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Unit 7: Complement System Unit 8: Hypersensitivity	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Unit 2: Molecular Techniques in Gene manipulation Cloning vectors: Plasmids Transformation techniques: Calcium chloride method and electroporation. DNA sequencing: Sanger method, PCR, DNA Finger Printing	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
	Unit 13: Amphibia General features and Classification up to orders; Parental care Unit 14: Reptiles General features and Classification up to orders; Poisonous and non-poisonous snakes, Biting mechanism in snakes	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity	
	Unit 1: An Overview of Cells and Techniques in Cell Biology (hierarchy in cell structure and cell molecules, Cell cycle and its regulation. Microscopy: Light microscopy, Phase contrast microscopy, Confocal microscopy, Electron microscopy (SEM, TEM, STEM), fluorescence microscopy, principles and applications.)	B.Sc.(H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology	
	Practicals	Exercise No. 1: To study the Mendelian laws and gene interactions. Exercise No. 2: Chi-square analyses using seeds/beads/Drosophila. Exercise No. 3: Linkage maps based on data	B.Sc. (H) Zoology III Year	CC-XII/Principles of Genetics
		Exercise No. 2: Plasmid DNA isolation (pUC 18/19) from <i>E. coli</i> Exercise No. 3: Restriction digestion of plasmid DNA.	B.Sc. Life Sciences Semester V (Batch 1)	DSE 1/ Animal Biotechnology
Exercise No. 2: Plasmid DNA isolation (pUC 18/19) from <i>E. coli</i> Exercise No. 3: Restriction digestion of plasmid DNA.		B.Sc. Life Sciences Semester V (Batch 2)	DSE 1/ Animal Biotechnology	

	Assignment	Topic: Transposable Genetic Elements in Bacteria (Group A) Transposable Genetic Elements in <i>Drosophila</i> (Group B) (given by Dr. Mansi Verma)	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Topic: Organs of Immune System (given by Dr. Om Prakash)	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Topic: Techniques in Biotechnology (given by Dr. P. Jayaraj)	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
		Topic: Diagrams of various organ systems from Porifera to Echinodermata given by Dr. Ajaib Singh)	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
		Topic: Given by Botany Dept.	B.Sc. (H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology
OCTOBER	Theory (1+1+1+2+1)	Unit 2: Linkage, Crossing Over and Chromosomal Mapping (Two factor and three factor crosses, Interference and coincidence)	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Unit 9: Vaccines Revision of Basic concepts	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Unit 2: Molecular Techniques in Gene manipulation (Construction of genomic and cDNA libraries and screening by colony and plaque hybridization, Southern, Northern and Western blotting)	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
		Unit 15: Aves General features and Classification up to orders; Flight adaptations in birds Unit 17: Mammals Classification up to orders; Origin of mammals	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
		Unit 1: An Overview of Cells and Techniques in Cell Biology (Basics and uses of flow cytometry, fluorescent probes, Spectrophotometry, Mass spectrometry, X-ray diffraction, Chromatography: Paper, TLC, gel-filtration, ionexchange, affinity and HPLC).	B.Sc.(H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology
	Practicals:	Exercise No. 3: Linkage maps based on data from transformation and transduction Exercise No. 4: Linkage maps based on data from <i>Drosophila</i> crosses.	B.Sc. (H) Zoology III Year	CC-XII/Principles of Genetics
		Exercise No. 4: Construction of circular and linear restriction map from the data provided. Exercise No. 5: Calculation of transformation efficiency from the data provided. Exercise No. 6: To study following techniques through photographs a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Semester V (Batch 1)	DSE 1/ Animal Biotechnology
		Exercise No. 4: Construction of circular and linear restriction map from the data provided. Exercise No. 5: Calculation of transformation efficiency from the data provided. Exercise No. 6: To study following techniques through photographs a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Semester V (Batch 2)	DSE 1/ Animal Biotechnology

	Mid Term Test	Test questions in DU exam pattern of covered topics	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Test questions in DU exam pattern of covered topics	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Test questions in DU exam pattern of covered topics	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
		Test questions in DU exam pattern of covered topics	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
		Test questions in DU exam pattern of covered topics	B.Sc. (H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology
NOVEMBER	Theory (1+1+1+2+1)	Unit 2: Linkage, Crossing Over and Chromosomal Mapping (Somatic cell hybridization.) Discussion of Mid-term Test paper and previous year question papers	B.Sc. (H) Zoology V Sem	CC-XII/Principles of Genetics
		Discussion of Mid-term Test paper and previous year question papers	B.Sc. (H) Zoology V Sem	DSE/Immunology
		Unit 2: Molecular Techniques in Gene manipulation (DNA micro array) Discussion of Mid-term Test paper and previous year question papers	B.Sc. Life Sciences V Sem	DSE/ Animal Biotechnology
		Discussion of Mid-term Test paper and previous year question papers	B.Sc. Life Sciences I Sem	CC1/ Animal Diversity
	Unit 6 Protein sorting and Transport, Cell Signaling and Cancer (Cancer treatment-Molecular approach, Stem cells and therapeutic cloning.) Discussion of Mid-term Test paper and previous year question papers	B.Sc.(H) Biological Sciences III Sem	CCVI/ Concepts in Cell Biology	
	Practicals:	Revision exercises Continuous Evaluation Test	B.Sc. (H) Zoology III Year	CC-XII/Principles of Genetics
		Exercise No. 7: Evaluation of the report on animal cell culture Revision exercises Continuous Evaluation Test	B.Sc. Life Sciences Semester V (Batch 1)	DSE 1/ Animal Biotechnology
Exercise No. 7: Evaluation of the report on animal cell culture Revision exercises Continuous Evaluation Test		B.Sc. Life Sciences Semester V (Batch 2)	DSE 1/ Animal Biotechnology	



SEMESTER WISE TEACHING PLAN (2017-18)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Namita Nayyar

Department: Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Unit 1: Carbohydrates: Introduction to Biochemistry. Carbohydrates: Structure and Biological importance: Monosaccharides,	B.Sc. (H) Zoology IInd Year	CCVII
		Unit 9 Mammals: General Characters	B.Sc. (H) Zoology IInd Year	CCV
	Practicals	Study of Life History of Honey Bee- <i>Apis mellifera</i> , from specimen/photographs; Egg, Larva, Pupa, Adult (Queen, Drone, Worker) and Natural Hive	B.Sc. Life Sciences Semester V	SEC 1
		Introduction to Biotechnology, Maintaining records	B.Sc. Life Sciences Semester V	DSE 1
AUGUST	Theory	Unit 1: Carbohydrates: Carbohydrates 8 Disaccharides, Polysaccharides and Glycoconjugates. Unit 4: Nucleic Acids: Structure: Purines and pyrimidines, Nucleosides, Nucleotides, Nucleic acids, Cot Curves: Base pairing, Denaturation and Renaturation of DNA.	B.Sc. (H) Zoology IInd Year	CCVII
		Unit 9 Mammals: General Characters (Contd), and classification up to order; Affinities of Prototheria.	B.Sc. (H) Zoology IInd Year	CCV
		Unit 2: Nutritional Biochemistry: Carbohydrates, Definition, Classification, their dietary source and role.	GEIII Food nutrition and Health:	GEIII
	Practicals:	Study of morphological structures of honey bee through permanent slides/photographs- Mouth parts, Antennae, Wings, Legs (Antenna Cleaner, Midleg, Pollen Basket) Sting Apparatus Study of bee pasturage: Visit to fields/gardens/orchards for studying the bee activity (role in pollination and nectar collection), making of herbarium of nectar and pollen yielding flowering plants	B.Sc. Life Sciences Semester V	SEC 1
		Exercise No. 6: To study following techniques through photographs: d) DNA Sequencing (Sanger's Method), e) PCR. Exercise No. 1: Genomic DNA isolation from <i>E. coli</i>	B.Sc. Life Sciences Semester V	DSE 1

SEPTEMBER	Theory	<p>Unit 4: Nucleic Acids: Types of DNA and RNA, Complementarity of DNA, Hypo-Hyperchromaticity of DNA.</p> <p>Unit 3: Proteins: Amino acids: Structure, Classification and General properties of α-amino acids; Physiological importance of essential and non-essential α-amino acids</p>	B.Sc. (H) Zoology IInd Year	CCVII
		<p>Unit 9 Mammals: Adaptive radiation with reference to locomotory appendages.</p> <p>Unit 7 Reptiles: General characteristics and classification up to order; Affinities of <i>Sphenodon</i>; Poison apparatus and Biting mechanism in snakes.</p>	B.Sc. (H) Zoology IInd Year	CCV
		<p>Unit 2: Nutritional Biochemistry: Lipids, Proteins- Definition, Classification, their dietary source and role</p>	GEIII Food nutrition and Health:	GEIII
	Practicals	<p>Permanent/Temporary mount of antenna cleaner, mid leg and pollen basket or mounting of pollen grains from flowers Study of artificial hive (Langstroth/ Newton), its various parts and other equipment of apiculture, Visit to an apiary/honey processing unit/institute and submission of report</p>	B.Sc. Life Sciences Semester V	SEC 1
		<p>Exercise No. 2: Plasmid DNA isolation (pUC 18/19) from <i>E. coli</i> Exercise No. 3: Restriction digestion of plasmid DNA.</p>	B.Sc. Life Sciences Semester V	DSE 1
	Assignment	Diversity of Chordata: Theories pertaining to distribution of animals: Plate Tectonic and Continent Drift Theory	B.Sc. (H) Zoology IInd Year	CCV
		Fundamentals of Biochemistry : Immunoglobulins: Basic structure, classes and Functions	B.Sc. (H) Zoology IInd Year	CCVII
OCTOBER	Theory	<p>Unit 3: Proteins: Bonds stabilizing protein structure; Levels of organization in proteins; Denaturation; Introduction to simple and conjugate proteins Immunoglobulins: Basic Structure, Classes and Function, Antigenic Determinants</p>	B.Sc. (H) Zoology IInd Year	CCVII
		<p>Unit 8 Aves: General characteristics and classification up to order <i>Archaeopteryx</i>-- a connecting link; Principles and aerodynamics of flight, Flight adaptations and Migration in birds</p>	B.Sc. (H) Zoology IInd Year	CCV

		Unit 2: Nutritional Biochemistry: Vitamins- Fat-soluble and Water-soluble vitamins- their dietary source and importance	GEIII Food nutrition and Health:	GEIII
	Practicals:	Submission of few products obtained from apiculture industry, Submission of Herbarium sheets	B.Sc. Life Sciences Semester V	SEC 1
		Exercise No. 4: Construction of circular and linear restriction map from the data provided. Exercise No. 5: Calculation of transformation efficiency from the data provided. Exercise No. 6: To study following techniques through photographs a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Semester V	DSE 1
	<u>Mid Term Test</u>			
NOVEMBER	Theory:	Unit 2: Lipids : Structure and Significance: Physiologically important saturated and unsaturated fatty acids, Tri-acylglycerols, Phospholipids, Glycolipids, Steroids	B.Sc. (H) Zoology IInd Year	CCVII
		Unit 10 Zoogeography: Zoogeographical realms, Theories pertaining to distribution of animals, Plate tectonic and Continental drift theory, distribution of vertebrates in different realms	B.Sc. (H) Zoology IInd Year	CCV
		Unit 2: Nutritional Biochemistry: Minerals- Iron, calcium, phosphorus, iodine, selenium and zinc: their biological functions	GEIII Food nutrition and Health:	GEIII
	Practicals:	Evaluation of Project and Practice and repetition of practical; mock practical examination	B.Sc. Life Sciences Semester V	SEC 1
		Exercise No. 7: Evaluation of the report on animal cell culture Revision exercises Mock practical examination.	B.Sc. Life Sciences Semester V	DSE1

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
 July- December 2017
 Odd semester

Name of the Faculty: Dr. Preeti Khandelwal

Department: Zoology

Semester: I/III/V: Theory & Practicals: B.Sc. Life Sciences Semester V; Batch 1 (**Skill Enhancement Course-Apiculture**),

Theory: B.Sc. (H) Zoology Semester I (**Principles of Ecology**),

Theory: B.Sc. (Hons.) Biological Sciences Semester III (**Concepts in Cell Biology**)

Theory & Practicals: B.Sc. Semester III (**GEIII-Food, Nutrition and Health**)

Practicals: B.Sc. Life Sciences Semester V; Batch 3 (**DSC1-Biotechnology**)

Month		Topics	Course	Paper Code/ Name
JULY	Theory	Classification and biology of honey bees Social organization of Bee Colony	B.Sc Life Sciences Semester V	SEC1
		History of Ecology, Autecology	BSc (H) Zoology Semester I	CC II
		Food Components and food nutrients, Concept of balanced diet, nutrient needs and dietary pattern for various groups- adults, pregnant and nursing mothers, infants, school children, adolescent and elderly	B.Sc Semester III	GEIII
		Structure and Function of Endoplasmic reticulum	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
	Practicals	No classes since GE was not opted yet	BSc Semester III	GEIII
		Study of Life History of Honey Bee- <i>Apis mellifera</i> , from specimen/photographs; Egg, Larva, Pupa, Adult (Queen, Drone, Worker) and Natural Hive	B.Sc. Life Sciences Semester V	SEC 1
		No classes due to course change	B.Sc. Life Sciences Semester V	DSE 1

AUGUST	Theory	Synecology, Levels of organization, Laws of limiting factors	BSc (H) Zoology Semester I	CC II
		Structure and Functions of Golgi Apparatus, GERL, Signaling molecules and their receptors, functions	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
		Food Components and food nutrients, Concept of balanced diet, nutrient needs and dietary pattern for various groups- adults, pregnant and nursing mothers,	B.Sc Semester III	GEIII
		Artificial Bee rearing (Apiary), Beehives-Newton and Langstroth Bee pasturage, Bee keeping equipment, Methods of extraction of honey (Indigenous and Modern)	B.Sc Life Sciences Semester V	SEC1
	Practicals :	Study of the stored grain pests from slides/photograph (<i>Sitophilus oryzae</i> , <i>Trogoderma granarium</i> , <i>Callosobruchus chinensis</i> , <i>Tribolium castaneum</i>) Their identification, habitat and food sources, damage caused and control. Preparation of temporary mounts of the above stored grain pests To detect adulteration in a) Ghee b) Sugars c) Tea Leaves and d) Turmeric	BSc Semester III	GEIII
		Study of morphological structures of honey bee through permanent slides/photographs-Mouth parts, Antennae,Wings,Legs (Antenna Cleaner, Midleg, Pollen Basket),Sting Apparatus Study of bee pasturage: Visit to fields/gardens/orchards for studying the bee activity (role in pollination and nectar collection), making of herbarium of nectar and pollen yielding flowering plants	B.Sc. Life Sciences Semester V	SEC 1
		To study following techniques through photographs: DNA Sequencing (Sanger's Method), PCR, Genomic DNA isolation from <i>E. coli</i>	B.Sc. Life Sciences Semester V	DSE 1
SEPTEMBER	Theory	Laws of limiting factors, Study of physical factors, Unitary and modular populations	BSc (H) Zoology Semester I	CC II
		Introduction to health- Definition and concept of health, Major nutritional deficiency diseases-Protein energy Malnutrition (Kwashiorkor and Marasmus), Vitamin A deficiency disorders, Iron deficiency disorders, iodine deficiency disorders-their causes, symptoms, treatment, prevention and government programmes, if any	B.Sc Semester III	GEIII
		Intracellular Signal transduction pathways (with special reference to some selected pathways); Signaling networks and cross-talk	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
		Selection of Bee species for Apiculture, Bee diseases and enemies, Control and Preventive measures,	B.Sc Life Sciences Semester V	SEC1

Practicals	Permanent/Temporary mount of antenna cleaner, mid leg and pollen basket or mounting of pollen grains from flowers Study of artificial hive (Langstroth/ Newton), its various parts and other equipment of apiculture, Visit to an apiary/honey processing unit/institute and submission of report	B.Sc. Life Sciences Semester V	SEC 1
	Estimation of Lactose in Milk Ascorbic Acid Estimation in food by titrimetry	BSc Semester III	GEIII
	Plasmid DNA isolation (pUC 18/19) from <i>E. coli</i> , Restriction digestion of plasmid DNA	B.Sc. Life Sciences Semester V	DSE 1
Assignment	Ecology in Wildlife Conservation and Management	BSc (H) Zoology Semester I	CC II
	Social Health problems-Smoking, alcoholism, drug dependence and Acquired Immuno Deficiency Syndrome (AIDS)- their causes, treatment and prevention	BSc (H) Zoology Semester V	DSE 2

OCTOBER	Theory	Unique and group attributes of population: Density, natality , mortality, Life tables, Survivorship curves	BSc (H) Zoology Semester I	CC II
		Products of apiculture Industry and its uses (Honey, Bees, wax, propolis), Pollen etc	B.Sc Life Sciences Semester V	SEC1
		Programmed Cell Death; Biology and elementary knowledge of development and causes of cancer	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
		Life style related diseases –Hypertension, mellitus and obesity-their causes and prevention through dietary and lifestyle modifications Social Health problems-Smoking, alcoholism, drug dependence and Acquired Immuno Deficiency Syndrome (AIDS)- their causes, treatment and prevention	B.Sc Semester III	GEIII
	Practicals	Submission of few products obtained from apiculture industry, Submission of Herbarium sheets	B.Sc. Life Sciences Semester V	SEC 1
		Estimation of calcium in foods by titrimetry	BSc Semester III	GEIII
		Construction of circular and linear restriction map from the data provided, Calculation of transformation efficiency from the data provided, To study following techniques through photographs: a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Semester V	DSE 1
		Submission of few products obtained from apiculture industry, Submission of Herbarium sheets	B.Sc. Life Sciences Semester V	SEC 1
		Estimation of calcium in foods by titrimetry	BSc Semester III	GEIII
		Construction of circular and linear restriction map from the data provided, Calculation of transformation efficiency from the data provided, To study following techniques through photographs: a) Southern Blotting b) Northern Blotting c) Western Blotting f) DNA Fingerprinting	B.Sc. Life Sciences Semester V	DSE 1
	Laws of limiting factors, Synecology, Life tables, Survivorship curves	BSc (H) Zoology Semester I	CC II	

	<u>Mid Term Test</u>	Intracellular Signal transduction pathways (with special reference to some selected pathways); Signaling networks and cross-talk	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
		Introduction to health- Definition and concept of health, Major nutritional deficiency diseases-Protein energy Malnutrition (Kwashiorkor and Marasmus), Vitamin A deficiency disorders, Iron deficiency disorders, iodine deficiency disorders-their causes, symptoms, treatment, prevention and government programmes, if any	BSc Semester III	GE III
NOVEMBER	Theory:	Age ratio, Sex ratio, dispersal and dispersion, Ecology in Wildlife Conservation and Management	BSc (H) Zoology Semester I	CC II
		Bee keeping industry-recent industry- Recent efforts, modern methods in employing artificial beehives for cross pollination in horticultural gardens	B.Sc Life Sciences Semester V	SEC1
		Tumor viruses, oncogenes and suppressor genes, cancer treatment- Molecular Approach, Stem cells and therapeutic cloning	B.Sc. (Hons.) Biological Sciences Semester III	BS-C6
		Common Ailments –cold, cough, and fevers, their causes and treatment	BSc Semester III	GE III
	Practicals :	Evaluation of Project and Practice and repetition of practicals; mock practical examination	BSc Semester III	GEIII
		Evaluation of Project and Practice and repetition of practical; mock practical examination	B.Sc. Life Sciences Semester V	SEC 1
		Exercise No. 7: Evaluation of the report on animal cell culture, Revision of some crucial exercises, Mock practical examination.	B.Sc. Life Sciences Semester V	DSE 1



**SEMESTER WISE TEACHING PLAN
(2017-2018)
SRI VENKATESWARA COLLEGE**

Name of the Faculty: **Dr. Haokam Vaiphei**
 ODD Semester: **I/III/V**

Department: **Political Science**

Name of the paper: **United Nations and Global Conflict - GE SEM I**

Month		Topic	Course	Paper Code/Name
July	Theory		Honours GE Paper	United Nations and Global Conflict
	Practicals			
	Tutorials			
August	Theory	<i>Introduction</i>		
	Practicals			
	Tutorials			
	Assignment	Formation of UN		
September	Theory	The United Nations (a) An Historical Overview of the United Nations (b) Principles and Objectives (c) Structures and Functions: Organs and Agencies Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect Millennium Development Goals		
	Practicals			
	Tutorials	Role of UN Agencies		
October	Theory	<i>Major Global Conflicts since the Second World War</i> (a) Korean War (b) Vietnam War (c) Afghanistan Wars (d) Balkans: Serbia and Bosnia		
	Practicals			
	Tutorials	Balkan Conflicts		
	Test	Test in Unit I and II		
November	Theory	Assessment of the United Nations as an International Organization: Imperatives of Reforms and the Process of Reforms		
	Practicals			
	Tutorials	Assessment of UN		

Name of the Paper: **Legislative Support BA P III SEM (SEC)**

Month		Topic	Course	Paper Code/Name
July	Theory		BA P SEC Paper	Legislative Support
	Practicals			
	Tutorials			
August	Theory	Introduction		
	Practicals			
	Tutorials			
	Assignment	Critically examine the role of Parliamentary Committees		
September	Theory	Powers and functions of people's representatives at different tiers of governance Members of Parliament, State Legislative Assemblies, functionaries of rural and urban local self-government from Zila Parishads/Municipal Corporation to Panchayat/Ward. Supporting the legislative process: How a Bill becomes a Law, Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill & The framing of Rules and Regulations.		
	Practicals			
	Tutorials			
October	Theory	Supporting the legislative committees Types of committees, Role of committees in reviewing government finances, policy, programmes, and legislation.		
	Practicals			
	Tutorials			
	Test	Unite-II, III & IV		
November	Theory	Reading the budget document: Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries Support in media monitoring and communication: Types of media and their significance for legislators. Basics of communication in print and electronic media		
	Practicals			
	Tutorials			

Name of the Paper: **Introduction to Political Theory B. Com (P) in lieu of MIL (SEM-III)**

Month		Topic	Course	Paper Code/Name
July	Theory		B Com. P in lieu of MIL	Introduction to Political Theory
	Practicals			
	Tutorials			
August	Theory	What is Politics		
	Practicals			
	Tutorials			
	Assignment	Write an essay on the different view Politics?		
September	Theory	What is Political Theory and what is its relevance? Concepts: Democracy, Liberty, Equality		
	Practicals			
	Tutorials			
October	Theory	Justice, Rights, Gender, Citizenship, Civil Society and State		
	Practicals			
	Tutorials			
	Test	Unit I & II		
November	Theory	Debates in Political Theory: a. Is democracy compatible with economic growth? b. On what grounds is censorship justified and what are its limits? c. Does protective discrimination violate principles of fairness? d. Should the State intervene in the institution of the family?		
	Practicals			
	Tutorials			

Subject: **Perspectives of Public Administration BA Honours III SEM (Shared Paper)**

Month		Topic	Course	Paper Code/Name
July	Theory		Honours Core Paper	Perspectives of Public Administration
	Practicals			
	Tutorials			
August	Theory			
	Practicals			
	Tutorials			
	Assignment			
September	Theory	Contemporary Theories Ecological approach (Fred Riggs) Innovation and Entrepreneurship (Peter Drucker)		
	Practicals			
	Tutorials			
October	Theory	New Public Administration		
	Practicals			
	Tutorials			
	Test			

November	Theory	New Public Administration		
	Practicals			
	Tutorials			



(Dr. Haokam Vaiphei)
Assistant Professor
Department of Political Science



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr M PADMA SURESH

Department: ECONOMICS

Semester : III / 2017-18

MONTH		TOPICS	COURSE	PAPER CODE/NAME
JULY	Theory	Nature of research –Ch 1,2 Ranjit Kumar(RK)	BA(Hons) Economics	12273302-SEC Research Methodology
AUGUST	Theory	Formulating the research topic, review of literature, Approaches to research and research strategy-Ch 4,3, 5,6,7,8,13 of RK Discussion on ideas for research project topics.		
SEPTEMBER	Theory	Research Ethics, Using data- primary and secondary data, Sample selection: Ch 14, 9,10,11,12 of RK and Cochran- Ch1, Ch5, Ch 8 (1.1- 1.6,5.1,8.1) Conduct of practice internal test on Ch 1-8 of RK. Submission of research proposal		
OCTOBER	Theory	Analyzing data, Writing Project Report-Ch 15,16.17 of RK		
NOVEMBER	Theory	Conduct of second practice internal test covering Ch 9-17. Submission, presentation and evaluation of research projects.		



Name of the Faculty: Dr. M PADMA SURESH

Department: ECONOMICS

Semester : V /2017-18

MONTH		TOPICS	COURSE	PAPER CODE/NAME
JULY	Theory	Matrix approach to k-variable regression model	BA(Hons) Economics	12277502-DSE Applied Econometrics
	Tutorials	Exercises from Basic Econometrics on matrix approach, 5 th International ed.		
AUGUST	Theory	Matrix approach, Stages in empirical econometric research, Regression Diagnostics- Multicollinearity, Heteroscedasticity, Autocorrelation. Functional forms and Dummy variables. Use of GRETL in econometrics by using Econometrics By Example(EBE)		
	Tutorials	Review and revision of essentials of econometrics using EBE, question papers-problem solving		
SEPTEMBER	Theory	Model specification-Ramsey RESET Test, LM Test, DW test. Measurement errors, AIC, SIC, Outliers, Leverage etc. Non-normal errors. GRETL exercises from EBE for specification and diagnostics		
	Tutorials	Conduct of first internal test covering Matrix approach, Review chapters and Model specification. Exercises from Basic econometrics, Gujarati and Wooldridge. Question papers-problem solving. Discussion of Project topic and submission of proposals		
OCTOBER	Theory	Advanced topics in regression analysis-Dynamic econometric models, Panel data and Instrumental Variable estimation, GRETL exercises		

		using EBE		
	Tutorials	Exercises from Basic econometrics, Gujarati and Wooldridge. Question papers- problem solving		
NOVEMBER	Theory	Simultaneous equation models		
	Tutorials	Conduct of practice internal test covering Advanced topics in regression analysis. Submission and evaluation of projects.		



Name of the Faculty: KRISHNAKUMAR S (2017-18)

Department: ECONOMICS

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	What is macroeconomics? Macroeconomic Issues in an economy	BA Programme Sem III	Principles of Macroeconomics - I
	Practical			
	Tutorials			
AUGUST	Theory:	Concepts of GDP and National Income; measurement of national income and related aggregates; nominal and real GDP; limitations of the GDP concept Actual and potential GDP; aggregate expenditure; consumption function; investment function; equilibrium GDP; concepts of MPS, MPC; autonomous	BA Programme Sem III	Principles of Macroeconomics-I
	Practical:			
	Tutorial:	Numericals on the basis of the simple Keynesian model	BA Programme Sem III	Principles of Macroeconomics-I
SEPTEMBER	Theory:	Fiscal policy; impact of changes in government expenditure and taxes; net exports and equilibrium national income.	BA Programme Sem III	Principles of Macroeconomics-I
	Practicals:			
	Tutorials:	Discussion of Keynes and Great Depression, recession in the current world economy . Numericals on the three sector model	BA Programme Sem III	Principles of Macroeconomics-I

	<u>Assignment :</u>	Detailed assignment on Fiscal Policy and Keynesian model. Balanced budget multiplier.(TEST)	BA Programme Sem III	Principles of Macroeconomics-I
OCTOBER	Theory:	Concept of money in a modern economy; monetary aggregates; demand for money; quantity theory of money; liquidity preference and rate of interest; money supply and credit creation;	BA Programme Sem III	Principles of Macroeconomics-I
	Practicals:			
	Tutorials:	Exploring RBI data relating to money supply and multiplier. Discussion on the basis of the lecture by Prof Anat Admati on The Banker's New Clothes	BA Programme Sem III	Principles of Macroeconomics-I
	<u>Test</u>	Test on the basis of the course in two sets		
NOVEMBER	Theory:	Monetary policy. Contemporary global economy and Indian economy. How do we make sense with the course which we did?	BA Programme Sem III	Principles of Macroeconomics-I
	Practicals:			
	Tutorials:	Revision and discussion of the previous year papers	BA Programme Sem III	Principles of Macroeconomics-I



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: KRISHNAKUMAR S

Department: ECONOMICS

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory	Ricardian model of comparative advantage. H-O-S factor endowments model, specific factors model. Standard trade	BA(Hons) Economics Sem V	International Economics
	Practicals			
	Tutorials	Problems on Ricardian model and modeling with specific factor model		
AUGUST	Theory:	New trade theories. intra-industry trade. Imperfect competition and trade. Dumping and reciprocal dumping. Externalities and decreasing cost curve. Industrial district. Instruments of trade policy. Static welfare analysis of tariffs, subsidies and quotas. Political economy of trade policy.	BA(Hons) Economics Sem V	International Economics
	Practicals:			
	Tutorials:	Problem set on welfare calculation of tariffs and		
SEPTEMBER	Theory:	Brander Spencer strategic trade policy. Optimum tariff. Trade creation and trade diversion. WTO, RTAs, FTAs.	BA(Hons) Economics Sem V	International Economics
		Introduction to Open Economy Macroeconomics. Uncovered and covered interest parity theories. Nominal and real		

	Tutorials:	Trade creation, trade diversion. Problems of instruments of trade policy		
	Assignment :	Students to assess the external sector performance of economies on the basis of BOPS, DOTS, IFS and WEO Database of IMF		
OCTOBER	Theory:	Permanent and temporary fiscal expansion. Permanent and temporary monetary expansion under the DD-AA framework. Exchange rate overshooting. Marshall Lerner conditions. J Curve. Mundell-Fleming model.	BA(Hons) Economics Sem V	International Economics
	Practicals:			
	Tutorials:	Small macro models on the basis of DD AA framework.		
	Test	Test on the basis of four chapters : two from each section		
NOVEMBER	Theory:	Financial Globalization. Regulation of banking. Revision	BA(Hons) Economics Sem V	International Economics
	Practicals:			
	Tutorials:	Revision of the trade theory numerical from back of text.		



Name of the Faculty: N. KALITHASAMMAL

Department: Economics

Semester: III

Month		Topics		Paper Name/
JULY-2017	Theory	Growth and development under different policy regimes. Its goals and constraints, saving and investment.	G.E III SEM.	INDIAN ECONOMIC DEVELOPMENT
AUGUST, SEPTEMBER	Theory:	Major features of the economy, population and human development, demographic trends and issues, education and health and malnutrition.		
OCTOBER, NOVEMBER	Theory:	Trends and policies in poverty, inequality, employment, international comparisons.		
	Tutorials:	Features of pc market, derivation of long run short run equilibrium, long run supply curve of an industry, allocative efficiency.		

	Assignment:	Two tests are going to conduct according to the given schedule.		
DECEMBER	Theory:	Production and cost, iso cost and quants, returns to scale, maximization ,equilibrium.		
	Tutorials:	Technological changes , cost minimization and profir maximization.		
		Finalisation of internal assesments.		



Name of the Faculty: N.KALITHASAMMAL

Department: Economics

Semester: III

Month		Topics	Course	Paper Name/
JULY-2017	Theory	Growth and development under different policy regimes. Its goals and constraints, saving and investment.	G.E III SEM.	INDIAN ECONOMIC DEVELOPMENT
AUGUST, SEPTEMBER	Theory:	Major features of the economy, population and human development, demographic trends and issues, education and health and malnutrition.		
OCTOBER, NOVEMBER	Theory:	Trends and policies in poverty, inequality, employment, international comparisons.		
	Tutorials:	Features of pc market, derivation of long run short run equilibrium, long run supply curve of an industry, allocative efficiency.		

	<u>Assignment:</u>	Two tests are going to conduct according to the given schedule.		
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DECEMBER	Theory:	Production and cost, iso cost and quants, returns to scale, maximization, equilibrium.		
	Tutorials:	Technological changes , cost minimization and profir maximization.		
		Finalisation of internal assesments.		



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Meenakshi Sharma

Department: ECONOMICS

Semester: III, B.A. (H) Economics

Month		Topics	Course	Paper Code/Name
JULY	Theory	Budget constraint-Taxes, subsidies and Rationing and Preferences: Assumptions about preferences, MRS, ICS	B.A (H), Economics, Semester III	Intermediate microeconomics I
	Tutorials	Numerical from Varian Workbook and past years' questions	B.A (H), Economics, Semester III	Intermediate microeconomics I
AUGUST	Theory:	Utility; demand; Slutsky equation Hicksian demand: Cardinal, Ordinal, Quasilinear preferences.	B.A (H), Economics, Semester III	Intermediate microeconomics I
	Tutorials:	Numerical from Varian Workbook and past years' questions, Appendix of Varian	B.A (H), Economics, Semester III	Intermediate microeconomics I
SEPTEMBER	Theory:	Revealed preference. Buying and selling; choice under risk and intertemporal choice;	B.A (H), Economics, Semester III	Intermediate microeconomics I
	Tutorials:	Numerical from Varian Workbook and past years' questions, questions from B. Douglas Bernheim and M. Whinston (2009): Chapter 11.	B.A (H), Economics, Semester III	Intermediate microeconomics I
	<u>Test 1 :</u>	Utility, Preferences, budget constraint, choice, demand, Slutsky equation	B.A (H), Economics, Semester III	Intermediate microeconomics I

OCTOBER	Theory:	Technology, isoquants, production with one and more variable inputs,	B.A (H), Economics, Semester III	Intermediate microeconomics I
	<u>Test 2:</u>	Buying and selling; choice under risk and intertemporal choice;	B.A (H), Economics, Semester III	Intermediate microeconomics I
	Tutorials:	Back questions from C. Snyder and W. Nicholson (2010): Fundamentals of Microeconomics	B.A (H), Economics, Semester III	Intermediate microeconomics I
NOVEMBER	Theory:	Cost : short run and long run costs, cost curves in the short and long run;	B.A (H), Economics, Semester III	Intermediate microeconomics I
	Tutorials:	Back questions from C. Snyder and W. Nicholson (2010): Fundamentals of Microeconomics	B.A (H), Economics, Semester III	Intermediate microeconomics I

Semester: V, B.A. (H) Economics Public Economics

Month		Topics	Course	Paper Code
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JULY	Theory	Fiscal functions: an overview Hindriks & Myles, Chapter 5.	B.A (H), Economics, Semester V	Public Economics
	Tutorials			
AUGUST	Theory:	Fiscal functions: an overview Hindriks & Myles, Chapter 5 contd Public Goods: definition, models of efficient allocation, pure and impure public goods, free riding Cullis & Jones, Chapter 3	B.A (H), Economics, Semester V	Public Economics
	Tutorials:	Fiscal Function and Public Goods	B.A (H), Economics, Semester V	Public Economics
	TEST 1	Fiscal Function and Public Goods		
SEPTEMBER	Theory:	Externalities: the problem and its solutions, taxes versus regulation, property rights, the Coase theorem	B.A (H), Economics, Semester V	Public Economics
	Tutorials:	Externalities & Taxation	B.A (H), Economics, Semester V	
OCTOBER	Theory:	Contd...Taxation: tax incidence, optimal taxation Indian Public Finance Tax System: structure and reforms, b. Budget, deficits and public debt.	B.A (H), Economics, Semester V	Public Economics
	Tutorials:	Externalities & Taxation	B.A (H), Economics, Semester V	Public Economics

	<u>Test 2</u>	Externalities & Taxation		
NOVEMBER	Theory:	<p>Indian Public Finance</p> <p>Tax System: structure and reforms Contd..</p> <p>Fiscal federalism in India Cullis & Jones, Chapter 12 (Sections: 12.4.3a and 12.7). - M. Govinda Rao (2005). "Changing Contours of Federal Fiscal Arrangements in India" in Amaresh Bagchi (ed.) Readings in Public Finance, Oxford Unity Press. - Y. V. Reddy (2015). "Fourteenth Finance Commission, Continuity, Change and Way Forward," Economic and Political Weekly, Vol. 50, No. 21 (May 23, 2015) pp. 27-36.</p>	B.A (H), Economics, Semester V	Public Economics



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Ankit Joshi

Month		Topics	Course	Paper Code/Name
JULY	Theory	TOPIC 1: AGGREGATE DEMAND & AGGREGATE SUPPLY CURVE Dornbush: Chapter 5	B.A. (Hons.) Economics	227302 Intermediate Macroeconomics - I
	Tutorials	Revision of Basic Concepts		
AUGUST	Theory:	TOPIC 1: AGGREGATE DEMAND & AGGREGATE SUPPLY CURVE Dornbush: Chapter 7 O. Blanchard: Pg 292-294, Pg 300- 306, Ch- 6 & 7	B.A. (Hons.) Economics	227302 Intermediate Macroeconomics - I
	Tutorials:	Discussion on the current Macroeconomic Issues and try to link the macroeconomic models with reality Practice of Back Questions of Unit -1		
SEPTEMBER	Theory:	TOPIC 2: INFLATION, UNEMPLOYMENT & EXPECTATIONS O. Blachard: Ch- 8 & 9 CLF, Attfied & NW Duck: Pg 1 – 28 Steven Sheffin: Ch- 2; Pg 25- 40	B.A. (Hons.) Economics	227302 Intermediate Macroeconomics - I
	Tutorials:	Practice of additional problems		

	<u>Assignment :</u>	TEST 1: Unit- 1		
OCTOBER	Theory:	TOPIC 3: OPEN ECONOMY MODELS Dornbush & Fischer: Ch 6 & 20	B.A. (Hons.) Economics	227302 Intermediate Macroeconomics - I
	Tutorials:	Discussion of some additional Open Economy Models Discussion of Back Questions		
	<u>Test</u>	TEST 2: Unit – 2 & Unit -3 (Dornbush, Ch- 6)		
NOVEMBER	Theory:	TOPIC 3: OPEN ECONOMY MODELS Salvatore: Ch 15 & 20.6	B.A. (Hons.) Economics	227302 Intermediate Macroeconomics - I
	Tutorials:	Discussion of Past Years and additional questions		



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: ANKIT JOSHI

Department: ECONOMICS

Semester : I (2017-18)

Month		Topics	Course	Paper Code/Name
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JULY	Theory	Topic 1: Exploring the subject matter of economics Mankiw, Chapter 1 & 2	B.A. (Hons.) Economics	Introductory Microeconomics - I
	Practicals			
	Tutorials	Revision of basic concepts		
AUGUST	Theory:	Topic 2: Supply & Demand Mankiw, Chapters 4, 5, 6, 7 & 8	B.A. (Hons.) Economics	Introductory Microeconomics - I
	Practicals:			
	Tutorials:	Practice of back questions of Topic 1 & 2		

	<u>Assignment :</u>	Test- Unit 1 & 2		
SEPTEMBER	Theory:	Topic 3: The Households Mankiw, Chapter 21	B.A. (Hons.) Economics	Introductory Microeconomics - I
	Practicals:			
	Tutorials:	Practice of back questions of Topic 3		
	<u>Test</u>	Test - Topic 3		
OCTOBER	Theory:	Topic 4: The firm & perfect market structure Mankiw, Chapter 13 & 14	B.A. (Hons.) Economics	Introductory Microeconomics - I
	Practicals:			
	Tutorials:	Practice of back questions of Topic 4		
NOVEMBER	Theory:	Topic 5: Imperfect Market Structure Mankiw, Chapter 15 Topic 6: Input Markets Mankiw, Chapter 18	B.A. (Hons.) Economics	Introductory Microeconomics - I
	Practicals:			



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Rajbir Kaur

Department: History

Semester: I, III

Month		Topics	Course	Paper Code/ Name
JULY	Theory:	I. Studying Early Medieval India (a) Dynamic and divergent topographies (b) Sources: texts, inscriptions, coins	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
	Tutorials:	I. Interpreting ancient India; survey of sources II. Survey of Palaeolithic, Mesolithic and Neolithic cultures: rock art	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
		Introducing the course and its themes.		
		Discussion		
AUGUST	Theory:	I. Studying Early Medieval India (c) Debates on the early medieval II. Political Structures and Processes (a) Evolution of political structures: Rajput polities; Chola State; Odisha (b) Symbols of political power: Brahmans and temples; sacred spaces and conflicts; courtly cultures (c) Issue of 'Foreign and Indian' : Arabs and Ghaznavids in the north-west, Cholas in Southeast Asia	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)

		<p>III. Harappan Civilization : origin, extent; urban features - town planning, economy, society and religion; decline. Chalcolithic cultures</p> <p>IV. <i>Vedic</i> culture: polity, economy, society and religion. Beginnings of the iron age. Megalithic cultures.</p>	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
	Tutorials:	Discussion with the tutorial groups on the topics already taken up in the lectures		
		Interaction and Queries		
SEPTEMBER	Theory:	<p>III. Social and economic processes</p> <p>(a) Agricultural expansion; forest-dwellers, peasants and landlords</p> <p>(b) Expansion of <i>varna-jati</i> order and brahmanization</p> <p>(c) Forms of exchange; inter-regional and maritime trade</p> <p>(d) Processes of Urbanization</p>	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
		<p>V. Emergence of <i>Mahajanapadas</i> (territorial states); <i>rajyas</i> and <i>ganas/sanghas</i>; Magadhan expansion</p> <p>VI. <i>Buddhism</i> and <i>Jainism</i>: doctrines; spread</p>	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
	Tutorials:	Discussion with regard to specific readings given for study		
	Assignment:	In what ways have recent approaches to the study of early medieval Indian history challenged the hypothesis of Indian Feudalism?	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
		Discuss the development phase from Paleolithic to Neolithic culture in context of Indian sub-continent? Or Examine the society, economy & religion of Harappan culture?	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.

OCTOBER	Theory:	IV. Religious, literary and visual cultures (a) Bhakti: Alvars and Nayanars (b) Puranic Hinduism; Tantra; Buddhism and Jainism	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
		VII. The <i>Mauryan</i> empire: state and administration, economy, Ashoka's <i>Dhamma</i> , art and architecture VIII. Post Mauryan Age with special reference to <i>Satavahanas</i> and <i>Kushanas</i> : polity, economy, society, art	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
	Tutorials:	Discussion group for Hindi medium students		
	Mid Term Test:	Internal Class Test held on 9 th October 2017	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
		Internal Class Test held on 12 th October 2017	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
NOVEMBER	Theory:	IV. Religious, literary and visual cultures (c) Sanskrit and regional languages: interactions (d) Art and architecture: temples - regional styles	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1200)
		IX. <i>Sangam</i> Age: polity, economy and society	B.A. (Prog.) Ist Year	Core - History of India from earliest times upto. 300 C.E.
	Tutorials:	Revision of the courses		
		Discussion on previous year's question papers		

	Practicals:	N/A		
	Tutorials:	Discussions on changing perspectives from colonial to recent times, <i>Itihasa-Purana</i> tradition, questions-answers sessions	B.A. Honours I	Core Course I, Paper-History of India-I
		N/A	B.A. Honours II	SEC/Paper-Understanding Heritage
SEPTEMBER	Theory:	<p>UNIT III</p> <ol style="list-style-type: none"> 1. Food Production (Neolithic): Distribution of sites, regional variations and special reference to Mehrgarh 2. Chalcolithic Cultures: regional distribution, features and variations <p>UNIT III</p> <ol style="list-style-type: none"> 1. Challenges to Heritage: Antiquity Smuggling, conflicts and ‘development’ 	B.A. Honours I	Core Course I, Paper-History of India-I
			B.A. Honours II	SEC/Paper-Understanding Heritage
	Practicals:	N/A		
	Tutorials:	Discussions on diffusion and internal dynamics of food production, regional variations of chalcolithic cultures, questions-answers sessions	B.A. Honours I	Core Course I, Paper-History of India-I
		N/A	B.A. Honours II	SEC/Paper-Understanding Heritage
	<u>Assignment</u>	<ol style="list-style-type: none"> 1. Critically evaluate the merit and demerits of archaeological and literary sources for the reconstruction of Indian history. 	B.A. Honours I	Core Course I, Paper-History of India-I
		<ol style="list-style-type: none"> 1. Field studies taken by different groups of students to visit heritage sites, fill questionnaires, take still and video pictures and data collation for topics decided 	B.A. Honours II	SEC/Paper-Understanding Heritage

OCTOBER	Theory	<p>UNIT IV Harappan Civilization: origins and decline, society, polity, agriculture, trade,, technology, religion, art</p> <p>UNIT IV 1. Heritage and Travel: Viewing Heritage Sites</p>	<p>B.A. Honours I</p> <p>B.A. Honours II</p>	<p>Core Course I, Paper- History of India-I</p> <p>SEC/Paper- Understanding Heritage</p>
	Practicals:	N/A		
	Tutorials:	<p>Discussion of evidences and problems in constriction of various aspects of Harappan civilization. Questions-answers sessions</p> <p>N/A</p>	<p>B.A. Honours I</p> <p>B.A. Honours II</p>	<p>Core Course I, Paper- History of India-I</p> <p>SEC/Paper- Understanding Heritage</p>
	<u>Mid Term Test</u>	<p>Any Two Questions to be attempted</p> <ol style="list-style-type: none"> 1. With reference to literary and archaeological sources, critically analyze their relative merits and demerits for the reconstruction of early Indian history. 2. Define Paleolithic. Write an essay covering the major aspects of this culture in India. 3. In what ways do Mesolithic cultures mark an intermediate phase in Indian prehistory? 4. Write short notes on any two of the following: <ol style="list-style-type: none"> a) Advances in the field of archaeology b)Rock art c)Significance of Mehrgarh d)Ecological variations in Chalcolithic cultures <p><u>Group Projects Deliberations</u></p> <ol style="list-style-type: none"> 1. Food Culture of Old Delhi 2)Vocal Traditions in India 3)Vandalism and Graffiti 4)Sufism in Delhi 	<p>B.A. Honours I</p> <p>B.A. Honours II</p>	<p>Core Course I, Paper- History of India-I</p> <p>SEC/Paper- Understanding Heritage</p>

NOVEMBER	Theory:	<p>UNIT V</p> <ol style="list-style-type: none"> 1. Aryan Debate 2. Vedic: Rig Vedic and later Vedic; geography, economy, polity, society, religion 3. Megaliths: typology, distribution and features <p>UNIT IV</p> <ol style="list-style-type: none"> 2. Heritage, Landscape and Travel; recent trends 	B.A. Honours I	Core Course I, Paper-History of India-I
	Practicals:	N/A		
	Tutorials:	<p>Discussion of two cultures: Harappan and Vedic. Problems of paucity of archaeological sources, megalithic economy. Questions-answers session</p> <p>Group Projects Submission and presentation of Individual Reports</p>	<p>B.A. Honours I</p> <p>B.A. Honours II</p>	<p>Core Course I, Paper-History of India-I</p> <p>SEC/Paper-Understanding Heritage</p>



**SEMESTER WISE
TEACHING PLAN
SRI VENKATESWARA
COLLEGE**

July-November, 2017

Name of the Faculty: Dr. NINGMUANCHING

Department: HISTORY

Semester: I and V

Month		Topics	Course	Paper Code/Name	
JULY	Theory:	I.Evolution of humankind and Paleolithic cultures (a) Environmental context of human evolution	B.A. (Honours) HISTORY	12311104 Social Formations and Cultural Patterns of the Ancient World(NC) Admission from 2016	
	Practicals:	Basic Concepts and Theories <ul style="list-style-type: none"> Defining Gender, Patriarchy: Ideology and Practice, Relationship between gender, class, 	B.A Programme GE	Women Studies in India	
		Tutorials:	A preliminary test taken to assess prior knowledge of students on the first topic. Another test on the same topic will be taken to show progress made in learning		
AUGUST	Theory:	(b) Biological Evolution of Hominins (c)Social and Cultural Adaptations: mobility and migration; development of lithic and other technologies; changes in the hunting gathering economy; social organisation; art and graves		12311104 Social Formations and Cultural Patterns of the Ancient World(NC) Admission from 2016	
		II. Understanding the Mesolithic (a)Mesolithic as a stage in prehistory (b)Environmental change and changes in subsistence strategies based on case studies West		12311104 Social Formations and Cultural Patterns of the Ancient World(NC) Admission from 2016	
		Unit II Sub topic <ul style="list-style-type: none"> Gender and Social History Family and Marriage, women's question in the nineteenth Century,		Women Studies in India	
	Tutorials:	Discussions on topic I, written assignment		12311104 Social Formations and Cultural Patterns of the Ancient World(NC) Admission from 2016	

		Discussion		Women Studies in India
	Assignment	Essay on understanding gender and patriarchy		Women Studies in India
SEPTEMBER	Theory:	III. The Neolithic (a)Debating the origins of food production, climate change, population pressure;ecological choices, cognitive reorientations (b)features of the Neolithic based on sites...; nature and size of settlements;toolkits,artifacts and pottery; family and household (c)features of social complexity in late Neolithic communities; ceremonial sites and structures		12311104 Social Formations and Cultural Patterns of the Ancient World(NC)
		IV. The Bronze Age-(a)Concepts UNIT III: Women’s movement in Colonial and post-colonial India Unit IV: Gender, Law and Politics Political participation, Violence against Women		Women Studies in India
		Questions on topics covered, Active reading		
	<u>Assignment</u>	Evolution of Hominins during the Pleistocene epoch		12311104 Social Formations and Cultural Patterns of the Ancient World(NC)
	<u>Test</u>	Test on all topic covered		
	OCTOBER	Theory	IV(b)Ecological context of early civilizations (c)Aspects of social complexity:class, gender and economic specialization (d) Forms of kingship, religion and state V. Nomadic Pastoralism-(a)conceptualizing nomadic pastoralism	
Unit IV Violence against Women and Preventive Laws Unit V:Gender, Development and Culture, Issues of Labour and Health				Women Studies in India
Tutorials:		Doubt clearing session, revision of topics covered		Women Studies in India
<u>Mid Term Test</u>		Questions from Topic II,III,IV		12311104 Social Formations and Cultural Patterns of the Ancient World(NC)
NOVEMBER	Theory:	V(b) The emergence of specialized pastoral economy in West Asia and its relationship to sedentary farming, third and second millennium BCE (c) Socia-political interactions between nomadic pastoralists and Urban state societies in west Asia, third and second millenium BCE		12311104 Social Formations and Cultural Patterns of the Ancient World(NC)

	V. The Advent of Iron –its origins and implications		
	Unit V sub-topic <ul style="list-style-type: none"> • Access to resources; • Gender Audit 		Women Studies in India
Tutorials:	Discussion		



SEMESTER WISE TEACHING PLAN (2017-18)
SRI VENKATESWARA COLLEGE

Name of the Faculty: NUTI NAMITA

Department: HISTORY

Semester: I/III/V

Odd Semester

Month		Topics	Course	Paper Code/Name
JULY	Theory	1.. The environmental setting; prehistoric and protohistoric sites; Purana Qila: Ashkan and Mehrauli Iron Pilar, Anangpur	GENERAL ELECTIVE-1 SEMESTER-1	DELHI THROUGH THE AGES PAPER-1
JULY	Theory	1.Imperialism and China (19 th c.) 2. Chinese Feudalism, 3. Gentry, the Confucian Value System, Sino centrism, Canton system	B.A (Hons) Third Year, Semester V	History of Modern East Asia-1(1840-49) PAPER-1X
	Tutorials	QUESTION ANSWER SESSION Doubts clearance		
AUGUST	Theory:	1.Settlements between 11 th and 16 th C.E 2. Lal Kot, Delli-Kuhna, 3. The Tomb, The Garden and the River: Humayun's Tomb, Nizammuddin	GENERAL ELECTIVE-1 SEMESTER-1	DELHI THROUGH THE AGES PAPER-1
AUGUST	THEORY:	1. OPIUM WARS 2. UNEQUAL TREATIES 3. TAIPING MOVEMENT	B.A (Hons) Third Year, Semester V	History of Modern East Asia-1(1840-49) PAPER-1X
	Tutorials:	Assignment: 1.On the IMPORTANCE OF THE iron pillar IN Mehrauli?		

	<u>Assignment</u> :	2. Causes of the Opium War and what were the consequences?		
SEPTEMBER	Theory:	. Shahjahanabad: The Company and the Mughal Court; Delhi College; Ghalib	GENERAL ELECTIVE-1 SEMESTER-1	DELHI THROUGH THE AGES PAPER-1
SEPTEMBER	Theory	Boxer movement Reform movements: Self-Strengthening movement; 1898 Reform movement The Revolution of 1911: Sun Yat-sen. Warlordism	B.A (Hons) Third Year, Semester V	History of Modern East Asia-1(1840-49) PAPER-1X
	Tutorials:	question ANSWER SESSIONS: PRESENTATIONS		
	<u>Test</u>	TEST WAS CONDUCTED FOR BOTH THE PAPERS.		
OCTOBER	Theory:	1857 in Delhi From the 1877 Durbar to the New Imperial Capital	GENERAL ELECTIVE-1 SEMESTER-1	DELHI THROUGH THE AGES PAPER-1
OCTOBER	Theory	May Fourth Movement of 1919 1921 -1927: Formation of the CCP; reorganization of the KMT/ GMD (Nationalist Party); the First United Front	B.A (Hons) Third Year, Semester V	History of Modern East Asia-1(1840-49) PAPER-1X
	Tutorials:	DISCUSSIONS ABOUT THE RESULTS IN THE TEST		

NOVEMBER	Theory:	Partition, Violence and Relocation: 1947 onwards	GENERAL ELECTIVE-1 SEMESTER-1	DELHI THROUGH THE AGES PAPER-1
NOVEMBER	Theory	The Communist Movement (1938-1949) (i)The Jiangxi Period and the rise of Mao Tse Tung	B.A (Hons) Third Year, Semester V	History of Modern East Asia-1(1840-49) PAPER-1X
	Tutorials:	Revision		



SEMESTER WISE TEACHING PLAN (2017-2018)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Rajni Chandiwai

Department:History

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
July	Theory 1.	<ul style="list-style-type: none"> Transition From Feudalism to Capitalism –Problems and Theory 	Core Course-VI	Rise of Modern West-I
	2.	<ul style="list-style-type: none"> Interpreting Ancient India Survey of Sources. 	CC-1	History of India from Earliest Times to upto C.-300 CE
	Practicals	NA	NA	
	Tutorials	Discussion on the theme Discussion on the theme		
August	Theory: 1.	<ul style="list-style-type: none"> Early Colonial Expansion- Motives Beginning of the Era of Expansion, Mining and Plantation, African Slaves. Renaissance-in Italy its Social Roots, Humanism and Its Spread in Europe, Art 		
	2.	<ul style="list-style-type: none"> Survey of Paleolithic , Mesolithic and Neolithic Cultures-Rock Art. Harappan Civilization-Origin and Extent , urban Features, Town Planning, Economy , Society, Religion, Decline. Chalcolithic Cultures. Vedic Culture-Polity, Economy, Society and Religion , Beginning of the Iron Age 		

Practicals:	NA		
Tutorials:	Discussion on the theme Screening selected documentary and visual Art		

	<u>Assignment :</u>	Feudalism Debate Harappan Theme		
September	Theory:	<p>1</p> <ul style="list-style-type: none"> • Origin Course and the Results of European Reformation in 16th Century. • Economic Developments of the 16th Century <p>2</p> <ul style="list-style-type: none"> • Emergence of Mahajanpadas, Rajyas , Gana Sanghas, Magadhan Expansion , Buddhism Jainism Doctrines 		
	Practicals:	NA		
	Tutorials:	Discussion on the themes taught in the class		
	<u>Test</u>	Taken on the themes taught in the class till Sept.		
October	Theory:	<p>1</p> <ul style="list-style-type: none"> • Shift of the Economic Balance From the Mediterranean to the Atlantic, Commercial Revolution. <p>2</p> <ul style="list-style-type: none"> • Mauryan Empire-State and Administration , Economy , Ashoka's Dhamma, Art and Architecture. Post Maurayan Age, satvahans, and Kushanas, Polity, Economy ,Society Art,. 		

Practicals:	NA		
Tutorials:	Questions and Answer Sessions with presentations		

November	Theory:	<p>1</p> <ul style="list-style-type: none"> Emergence of the European State Systems with the two case Studies Spain and England . <p>2</p> <ul style="list-style-type: none"> Sangam Age, Polity Economy and society 		
	Practicals:	NA		
	Tutorials:	Revisions		



**SEMESTER WISE
TEACHING PLAN
SRI VENKATESWARA
COLLEGE**

July-November, 2017-18

Name of the Faculty: Vandana Joshi

Department: History

Semester: V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	1. The French Revolution [a] Crisis of the Ancien Regime [b] Intellectual currents 2.	BA HONS Core Course XI History	Modern European History
	Practicals:	I. Key concepts and historical background [a] The idea of the early Modern; perspectives on culture in history 1. [b] An overview of the classical and medieval legacy	BA Programme DSE	Cultural Transformation in Early Modern Europe
		Tutorials:	The French Revolution	BA HONS
		The idea of Early Modern Europe	BAP /DSE	Cultural Transformation in Early Modern Europe
AUGUST	Theory:	[c] Social classes and emerging gender relations [d] Phases of the French Revolution 1789-99 [e] Art and culture of the French Revolution [f] Napoleonic consolidation –reform and empire	BA HONS Core Course	Modern European History
		II. The Renaissance [a] Society and politics in Italian city states [b] Humanism in art and literature	BAP/DSE	Cultural Transformation in Early Modern Europe

		[c] Developments in science and philosophy		
	Practicals:			
	Tutorials:	Presentations and assignments		
		Presentations and assignments		
SEPTEMBER	Theory:	II. Restoration and revolution: c 1815-1848 [a] Forces of conservatism and restoration of old hierarchies [b] Social, political and intellectual currents [c] Revolutionary and radical movements 1830-1848 III. Capitalist industrialization and social and economic transformation (Late 18 th century to AD 1914) [a] Process of capitalist development in industry and agriculture: case studies of Britain, France, the German States and Russia.	BA HONS	Modern European History
		[d] Renaissance beyond Italy III. Upheaval in religion [a] The Papacy and its critics [b] The spread of Protestant sects in Northern Europe	BAP/DSE	Cultural Transformation in Early Modern Europe
	Practicals:			
	Tutorials:	Presentations and assignments		

		Presentations and assignments		
	<u>Assignment</u>			
OCTOBER	Theory	[b] Evolution and differentiation of social classes: bourgeoisie, proletariat, landowning classes and peasantry. [c] Changing trends in demography and urban patterns [d] Family, gender and process of industrialization IV Liberal democracy, working class movements and Socialism in the 19 th and 20 th Centuries: 39 [a] The struggle for parliamentary democracy and civil liberties in Britain: popular movements – chartists and suffragettes	BA HONS	Modern European History
		[c] Counter Reformation and religious strife [d] The economic and cultural impact of the Reformations	BAP/DSE	Cultural Transformation in Early Modern Europe
	Practicals:			
	Tutorials:	Presentations and class test		
		Presentations and assignments		
	<u>Mid Term Test</u>			

NOVEMBER	Theory:	[b] The making of democratic and constitutional rights [c] Forms of protest: food riots in France and England in early nineteenth century, Luddism; trends in labour movements: Britain, France and Germany [d] Early socialist thought, Marxian Socialism and the First and Second International.	BA HONS	Modern European History
		IV. The Conquest of the New World: material, social and cultural aspects	BAP	Cultural Transformation in Early Modern Europe
	Practicals:			
	Tutorials:	Presentations and assignments		
		Presentations and assignments		



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

July-November, 2017-18

Name of the Faculty: Dr. Archana Bansal

Department: Statistics

Semester: III, V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Concept of population and sample, complete enumeration versus sampling, sampling and nonsampling errors. Types of sampling: non-probability and probability sampling, basic principle of sample survey, simple random sampling with and without replacement	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official Statistics
	Practicals:	Discuss problems related to theory		
	Tutorials:			
AUGUST	Theory:	definition and procedure of selecting a sample, estimates of: population mean, total and proportion, variances of these estimates, estimates of their variances and sample size determination. Stratified random sampling: Technique, estimates of population mean and total, variances of these estimates, proportional and optimum allocations and their comparison with SRS. Practical difficulties in allocation	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official Statistics
	Practicals:	To select a SRS with and without replacement, For a population of size 5, estimate population mean, population mean square and population variance. Enumerate all possible samples of size 2 by WR and WOR and establish all properties relative to SRS.		
	Tutorials:			
SEPTEMBER	Theory:	estimation of gain in precision, post stratification and its performance. Systematic Sampling: Technique, estimates of population mean and total, variances of these estimates ($N=n \times k$). Comparison of	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official

		systematic sampling with SRS and stratified sampling in the presence of linear trend and corrections		Statistics
		Introduction to Ratio and regression methods of estimation, first approximation to the population mean and total (for SRS of large size)	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official Statistics
	Practicals:	For SRSWOR, estimate mean, standard error, the sample size, Stratified Sampling: allocation of sample to strata by proportional and Neyman's methods. Compare the efficiencies of above two methods relative to SRS		
	Tutorials:			
	<u>Assignment</u>	Assignment related to Systematic Sampling		
OCTOBER	Theory	variances of these estimates and estimates of these variances, variances in terms of correlation coefficient for regression method of estimation and their comparison with SRS. Cluster sampling (equal clusters only) estimation of population mean and its variance, comparison (with and without randomly formed clusters). Relative efficiency of cluster sampling with SRS in terms of intra class correlation. Concept of sub sampling	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official Statistics
	Practicals:	Estimation of gain in precision in stratified sampling. Comparison of systematic sampling with stratified sampling and SRS in the presence of a linear trend.		
	Tutorials:			
	<u>Mid Term Test</u>	Test based on Unit-I and Unit-II		
NOVEMBER	Theory:	Present official statistical system in India, Methods of collection of official statistics, their reliability and limitations. Role of Ministry of Statistics & Program Implementation (MoSPI), Central Statistical Office (CSO), National Sample Survey Office (NSSO), and National Statistical Commission. Government of India's Principal publications containing data on the topics such as population, industry and finance	Bachelor of Statistics (Hons.)	STAT-C-302 Survey Sampling and Indian Official Statistics

	Practicals:	<p>Ratio and Regression estimation: Calculate the population mean or total of the population. Calculate mean squares. Compare the efficiencies of ratio and regression estimators relative to SRS,</p> <p>Cluster sampling: estimation of mean or total, variance of the estimate, estimate of intra-class correlation coefficient, efficiency as compared to SRS</p>		
	Tutorials:			



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Odd Semester, 2017-18

Name of the Faculty: Ms. Raj Kumari

Department: Statistics

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Statistical Methods: Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative, attributes, variables, scales of measurement- nominal, ordinal, interval and ratio	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Practicals:	Graphical representation of data.		
	Tutorials:	Discuss problems related to theory		
AUGUST	Theory:	Presentation: tabular and graphical, including histogram and ogives, consistency and independence of data with special reference to attributes.	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
		Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range,		
	Practicals:	Problems based on measures of central tendency. , Problems based on measures of dispersion	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Tutorials:			
SEPTEMBER	Theory:	Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, Moments,	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
		absolute moments, factorial moments, skewness and kurtosis, Sheppard's corrections.	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics

	Practicals:	Problems based on measures of dispersion, Problems based on combined mean and variance and coefficient of variation. , Problems based on moments, skewness and kurtosis, Fitting of polynomials, exponential curves		
	Tutorials:			
OCTOBER	Theory	Bivariate data: Definition, scatter diagram, simple, partial and multiple correlation (3 variables only), rank correlation. Simple linear regression, principle of least squares and fitting of polynomials and exponential curves.	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Practicals:	Karl Pearson correlation coefficient, . Correlation coefficient for a bivariate frequency distribution, Lines of regression, angle between lines and estimated values of variable, Spearman rank correlation with and without ties	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Tutorials:			
	<u>Mid Term Test</u>	Test based on Unit-I and Unit-II		
NOVEMBER	Theory:	Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability – classical, statistical, and axiomatic. Conditional Probability, laws of addition and multiplication, independent events, theorem of total probability, Bayes’ theorem and its applications	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Practicals:	Partial and multiple correlations. , Planes of regression and variances of residuals for given simple correlations, Planes of regression and variances of residuals for raw data.	Bachelor of Statistics (Hons.)	STAT-C-101 Descriptive Statistics
	Tutorials:			



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE**

Odd Semester, 2017-18

Name of the Faculty: Dr. M. V. R. Prasada Rao Department; Statistics

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Estimation of population mean.	Generic Elective	GE-3, Basics of Statistical Inference
		Introduction and Objective behind building Econometric Models	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Practical:	Estimators of population mean.	Generic Elective	GE-3, Basics of Statistical Inference
AUGUST	Theory:	confidence intervals for the parameters of a normal distribution (one sample and two sample problems), The basic idea of significance test	Generic Elective	GE-3, Basics of Statistical Inference
		General linear models, Estimation under linear restrictions, Multicollinearity	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Practical:	Confidence interval for the parameters of a normal distribution (one sample and two sample problems), Analysis of Variance of a one way classified data.	Generic Elective	GE-3, Basics of Statistical Inference
		Based on General linear models, Estimation under linear restrictions	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics

SEPTEMBER	Theory:	Null and alternative hypothesis, Type I & Type II errors, level of significance, Concept of p-value, Tests of hypotheses for the parameters of a normal distribution (one sample and two sample problems),	Generic Elective	GE-3, Basics of Statistical Inference
		Concepts, Consequences, Tests for detection and Remedies,	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Practical:	Generalized least squares. Concepts. Tests of hypotheses for the parameters of a normal distribution (one sample and two sample problems), Analysis of Variance of a two way classified data, Analysis of a CRD.	Generic Elective	GE-3, Basics of Statistical Inference
		Based on and Remedies, Generalized least squares, Concepts, Aitken's Estimator	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Assignment	Test will be based on Unit I and Unit IV with real life examples of student's stream.	Generic Elective	GE-3, Basics of Statistical Inference
		Based on restrictions, Multicollinearity	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
OCTOBER	Theory	Categorical data: Tests of proportions, Tests for the significance of correlation coefficient, Sign test for median	Generic Elective	GE-3, Basics of Statistical Inference
		Autocorrelation, Concepts, Consequences, Tests for detection and Remedies, Heteroscedasticity, Concepts, Consequences, Tests	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Practical:	Chi-square test of proportions. Test for correlation coefficient, Sign test for median, Analysis of an RBD.	Generic Elective	GE-3, Basics of Statistical Inference
		Based on Autocorrelation, Concepts, Consequences, Tests for detection and Remedies, Heteroscedasticity, Concepts, Consequences	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics

	Mid Term Test	Test will be based on Unit I and Unit IV.	Generic Elective	GE-3, Basics of Statistical Inference
		Unit-I, Unit-II and Unit-III	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
NOVEMBER	Theory:	Sign test for symmetry, Wilcoxon two-sample test.	Generic Elective	GE-3, Basics of Statistical Inference
		Tests for detection and Remedies, Autoregressive and Lag models, Concepts, Consequences and Remedies	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics
	Practical:	Sign test for symmetry, Wilcoxon two-sample test, Chi-square tests of association, Chi-square test of goodness-of-fit.	Generic Elective	GE-3, Basics of Statistical Inference
		Based on Tests for detection and Remedies, Autoregressive and Lag models, Concepts, Consequences and Remedies	B.Sc. (H) Stats	STAT-DSE 2-(B): Econometrics



SEMESTER WISE TEACHING PLAN
Sri VENKATESWARA COLLEGE

Odd Semester, 2017-18

Name of the Faculty: Akash

Department: Statistics

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Introduction to times series data, application of time series from various fields, Components of a times series, Decomposition of time series.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
		Integration Revision	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS
		Numerical Analysis: Factorial, finite differences and interpolation. Operators, and divided difference.	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
	Practicals:	Estimation of trend by free hand curve method, method of semi averages, fitting mathematical curve and growth curves.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
		1.Fitting and plotting of modified exponential curve by different methods	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
	Tutorials:	Formation of difference table, fitting of polynomial and missing terms for equal interval of differencing.	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
		Practice Questions and Doubt Clearing for above topics	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS
AUGUST	Theory:	Estimation of trend by method of moving averages. Detrending: effect of elimination of trend on other components of a time series.	B.Sc.(H) Statistics	STAT-DSE – 1 (A): Time Series Analysis

			Sem-V	
		Integral Calculus: Review of integration and definite integral. Differentiation under integral sign.	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS
		Newton's forward, backward and divided differences interpolation,	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
		Seasonal Component: Estimation of seasonal component by the methods of - simple averages, Ratio to Trend, Ratio to Moving Averages and Link	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
	Practicals:	2.Fitting and plotting of Gompertz curve by different methods. 3. Fitting and plotting of logistic curve by different methods 4. Fitting of trend by Moving Average Method for given extent and for estimated extent. 5. Fitting of trend by Spencer's 15-point and 21-point formulae 6. Measurement of Seasonal indice	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
	Tutorials:	Based on Newton's Gregory forward difference interpolation formula	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
		. Based on Newton's backward difference interpolation formula		
SEPTEMBER	Theory:	Cyclic Component: Harmonic Analysis.Random Component: Variate difference method.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis

	<p>Double integral, change of order of integration, transformation of variables</p> <p>Beta and Gamma functions: properties and relationship between them.</p>	<p>B.Sc.(H) Statistics Sem-I</p>	<p>STAT-C-102: CALCULUS</p>
	<p>Central differences, Derivation of Gauss and Stirling interpolation formulae.</p> <p>formulae. Lagrange's interpolation formulae.</p>	<p>B.Sc.(H) Statistics Sem-III</p>	<p>STAT-C-303: Mathematical Analysis</p>
	<p>Stationary Time series: Weak stationarity, autocorrelation function and the correlogram. Some Special Processes: Moving-average (MA) process</p>	<p>B.Sc.(H) Statistics Sem-V</p>	<p>STAT-DSE – 1 (A): Time Series Analysis</p>
Practicals:	<p>. Measurement of Seasonal indices • Simple Averages method. • Ratio-to-Trend method • Ratio-to-Moving Average method • Link Relative method</p>	<p>B.Sc.(H) Statistics Sem-V</p>	<p>STAT-DSE – 1 (A): Time Series Analysis</p>
	<p>Practicals Based on Newton's divided difference and Lagrange's interpolation formula</p> <p>Based on Gauss forward, Gauss backward central difference interpolation formula</p> <p>Based on Stirling's central difference interpolation formula</p>	<p>B.Sc.(H) Statistics Sem-III</p>	<p>STAT-C-303: Mathematical Analysis</p>
	<p>Based on Lagrange's Inverse interpolation formula</p>		
Assignment	<p>Q1 Different Methods of fitting of Logistic Curve (i) Yule's Method (ii) Hotelling's Method (iii) Successive approximation Method</p> <p>Q. Periodogram and Harmonic Analysis</p>	<p>B.Sc.(H) Statistics Sem-V</p>	<p>STAT-DSE – 1 (A): Time Series Analysis</p>
	<p>Questions based on Differtiation under Integral sign</p>	<p>B.Sc.(H) Statistics</p>	<p>STAT-C-102: CALCULUS</p>

		divided difference. Newton's divided differences interpolation, Central differences, Gauss forward Gauss Backward formulae	B.Sc.(H) Statistics	STAT-C-303: Mathematical Analysis	
OCTOBER	Theory	Introduction to methods of Forecasting a time series. Forecasting by the methods of Exponential smoothing	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis	
		Formation and solution of a partial differential equations. Equations easily integrable. Linear partial differential equations of first order. Non-linear partial differential equation of first order and their different forms. Charpit's method.	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS	
		Numerical integration. Trapezoidal rule, Simpson's one-third rule, three-eighths rule, Weddle's rule with error terms. Stirling's Formulae. Euler-Maclaurin summation formula.	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis	
		Introduction to ARMA and ARIMA models. Short-term forecasting method: Brown's discounted regression.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis	
		Estimation of variance of the random component by variate difference method 8. Forecasting by exponential smoothing 9. Plotting of Correlogram of moving average.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis	
	Practicals:	Practical : Based on method of successive approximation or iteration Based on method of reversion of series Based on Trapezoidal Rule, Simpson's one-third rule, Simpson's three-eighth rule, Weddle's rule	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis	
		Tutorials:			

	Mid Term Test	Cyclic Component: Harmonic Analysis. Random Component: Variate difference method. Estimation of the parameters of AR (1) and AR (2). Autocorrelation functions of AR(1) and AR(2) processes.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
		Beta Gamma Function, Double Integral.	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS
		Topics based on Central Difference Formulae, Numerical Integration.	B.Sc.(H) Statistics	STAT-C-303: Mathematical Analysis
NOVEMBER	Theory:	Short-term forecasting method: Box-Jenkins method. Short-term forecasting method: Bayesian forecasting	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
		Homogeneous linear partial differential equations with constant coefficients. Different cases for complimentary functions and particular	B.Sc.(H) Statistics Sem-I	STAT-C-102: CALCULUS
		Solution of difference equations of first order. Revision	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
	Practicals:	Forecasting by exponential smoothing 9. Plotting of Correlogram of moving average. Revision of Practicals.	B.Sc.(H) Statistics Sem-V	STAT-DSE – 1 (A): Time Series Analysis
		To find sum by Euler-Maclaurin summation formula. Revision of Practicals.	B.Sc.(H) Statistics Sem-III	STAT-C-303: Mathematical Analysis
	Tutorials:			



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester, 2017-18

Name of the Faculty: Dr. Joginder

Department: Statistics

Semester: III

Month		Topics	Course	Paper Code/Name	
JULY	Theory:	Limit laws, different types of convergence and their inter relations, Central Limit Theorem (CLT), applications and examples based on CLT	Bachelor of Statistics (Hons.)	STAT-C-301: SAMPLING DISTRIBUTIONS	
		Categorical data: Tests of proportions,			
	Practicals:	Practical based on different types of convergence and Central Limit Theorem (CLT)			STAT-GE-3 Basics of Statistical Inference
	Tutorials:	Discuss problems related to theory			
AUGUST	Theory:	Order statistics: distribution of rth order, largest and smallest order statistics and joint distribution of two order statistics, distribution of sample median and range. Examples based on theory, Sampling distributions: definition of parameter, statistic, standard error and their concepts, Sampling distribution of various statistics	Bachelor of Statistics (Hons.)	STAT-C-301: SAMPLING DISTRIBUTIONS	
		tests of association and goodness-of-fit using Chi-square test, Yates' correction.			
	Practicals:	Practical based on Sampling distributions			
	Tutorials:				

SEPTEMBER	Theory:	Introduction to hypothesis testing (classical and p value approach): formulation of null and alternative hypothesis, type I and Type II errors, level of significance and critical region. Examples based on these		
		Large sample tests: for single mean, single proportion, difference of two means, difference of two proportions, difference of two standard deviations all with examples Examples and practical work based on these tests	Bachelor of Statistics (Hons.)	STAT-C-301: SAMPLING DISTRIBUTIONS
		Analysis of variance, one-way		
	Practicals:	Practical based on theory		
	Assignment	Assignment related to testing of significance		
OCTOBER	Theory	Chi square distribution: Definition and derivation of p.d.f. of χ^2 with n degrees of freedom (d.f.) using m.g.f., nature of p.d.f. curve for different degrees of freedom, mean, variance, m.g.f., cumulant generating function, mode, additive property and limiting form of χ^2 distribution. Tests of significance and confidence intervals based on Chi-Square Distribution. Includes examples and practical work	Bachelor of Statistics (Hons.)	STAT-C-301: SAMPLING DISTRIBUTIONS
		two-way classification. Brief exposure of three basic principles of design of experiments,		
	Practicals:	Practical based on Sampling distributions Chi square distribution		
	Mid Term Test	Test based on Unit-I and Unit-II		

NOVEMBER	Theory:	Student's and Fishers t-distribution: Derivation of p.d.f., nature of probability curve with different degrees of freedom, mean, variance, moments and limiting form of the distribution, Distribution of sample correlation coefficient when population correlation coefficient is zero. Tests of significance and confidence intervals based on t distribution. Distribution of F statistic: derivation of p.d.f., nature of probability curve with different degrees of freedom, mean, variance, moments, mode and limiting form of the distribution, points of inflexion. Distribution of $1/F(n_1, n_2)$. Relationship between t, F and χ^2 distributions. Test of significance and confidence intervals based on F distribution. Includes examples and practical work	Bachelor of Statistics (Hons.)	STAT-C-301: SAMPLING DISTRIBUTIONS
		treatment, plot and block. Analysis of completely randomized design, randomized complete block design. Bioassay		
	Practicals:	Test of significance and confidence intervals based on F distribution		
	Tutorials:			



**SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester 2017-18**

Name of the Faculty: Mr. Ashutosh

Department: Statistics

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	Theory:	Overview of C, Constants, Variables and Data Types	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Introduction to statistics, development, importance and scope of statistics	GE-1	STAT-GE-1
	Practicals:	Plotting of a graph		STAT-C-502
		Roots of a quadratic equation (with imaginary roots also)	B.Sc. (Hons) Statistics	Statistical Computing Using
		Graphical representation of data	GE-1	STAT-GE-1
AUGUST	Theory:	Operators and Expressions, Managing Input and Output Operations, Decision Making and Branching, Develop programs to do statistical computing	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Presentation of data by tables and graphs	GE-1	STAT-GE-1
	Practicals:	Sorting of an array and hence finding median	B.Sc. (Hons) Statistics	STAT-C-502
		Mean, Median and Mode of a Grouped Frequency Data Variance and coefficient of variation of a Grouped Frequency Data		Statistical Computing Using C/C++ Programming

		Preparing a frequency table		
		Problems based on measures of central tendency	GE-1	STAT-GE-1 Statistical Methods
SEPTEMBER	Theory:	Decision Making and Looping, Develop programs to do statistical computing, Arrays, Develop programs to do statistical computing related to arrays, matrices etc, Character Arrays, Strings	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Measures of dispersion, Moments Measures of skewness and kurtosis	GE-1	STAT-GE-1
	Practicals:	Value of n! using recursion Matrix addition, subtraction, multiplication Transpose and Trace Chi-square contingency table	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Problems based on measures of dispersion Problems based on combined mean and variance and coefficient of variation Problems based on moments, skewness and kurtosis	GE-1	STAT-GE-1 Statistical Methods
	Assignment	Based on topic covered up to September		
	OCTOBER	Theory	File Management in C, Develop programs to do statistical computing using files input/output files, User- defined Functions, Develop programs to do statistical computing using user defined functions, recursion.	B.Sc. (Hons) Statistics

		Bivariate data, scatter diagram, principle of least squares and curve fitting, Pearson's correlation, rank correlation	GE-1	STAT-GE-1
	Practicals:	t-test for difference of means Paired t-test, F-ratio test	B.Sc. (Hons) Statistics	Statistical Methods STAT-C-502 Statistical Computing Using C/C++ Programming
		Fitting of polynomials, exponential curves Karl Pearson correlation coefficient Partial and multiple correlations	GE-1	STAT-GE-1 Statistical Methods
	Mid Term Test	Based on Unit 1 to Unit 3		
NOVEMBER	Theory:	Structure and Pointers, Develop programs to do statistical computing with the concept of structures and pointers, Dynamic Memory Allocation and the Preprocessor	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Regression, Multiple and partial correlation, Theory of attributes	GE-1	STAT-GE-1 Statistical Methods
	Practicals:	Multiple and Partial correlation. Compute ranks and then calculate rank correlation Fitting of lines of regression	B.Sc. (Hons) Statistics	STAT-C-502 Statistical Computing Using C/C++ Programming
		Spearman rank correlation with and without ties Correlation coefficient for a bivariate frequency distribution Lines of regression, angle between lines and estimated values of variables	GE-1	STAT-GE-1 Statistical Methods



SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2017-18

Name of the Faculty: Dr. Dipika
 Semester: I,III,V

Department: **Statistics**

Month		Topics	Course	Paper Code/Name
JULY	Theory	Introduction to Operations Research, phases of O.R. Model building, various types of O.R. problems, Linear Programming Problem, Mathematical formulation of the L.P.P.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Meaning of Demography and Population Statistics, Coverage and Content Errors in Demographic data, Use of Balancing Equations.	B.A. (Programme)	DSE1-(i): Demography
	Practicals	Estimators of population mean	Generic Elective	STAT-GE-3: Basics of Statistical Inference
		Mathematical formulation of L.P.P	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
	Tutorials			
AUGUST	Theory	Graphical solutions of a L.P.P. Simplex method for solving L.P.P., Charne's M-technique for solving L.P.P. involving artificial variables. Practical work. Special cases of L.P.P. Concept of Duality in L.P.P., Dual simplex method. Post-optimality analysis.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Chandrasekaran-Deming formula, Population Composition, Dependency Ratio, Errors in Age data, Evaluation of Age data, Myer's and UN Indices, Adjustment of Age data, Meaning of Vital Statistics, Vital events, Sources of data collection on Vital Statistics and errors they suffer from.	B.A. (Programme)	DSE1-(i): Demography
	Practicals	Confidence interval for the parameters of a normal distribution (one sample and two sample problems), Tests of hypotheses for the parameters of a normal distribution (one sample and two sample problems), Chi-square test of proportions.	Generic Elective	STAT-GE-3: Basics of Statistical Inference
		Problem Solving using graphical method, Simplex technique and Charne's Big M method involving artificial variables, Identifying Special cases by Graphical and Simplex method and interpretation, Post-optimality:	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
	Tutorials			
	Theory	Transportation Problem: Initial solution by North West corner rule, Least cost method and Vogel's approximation method (VAM), MODI's method to find the optimal solution, special	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research

SEPTEMBER		cases of transportation problem. Assignment problem: Hungarian method to find optimal assignment, special cases of assignment problem		
		Measurement of Population, Distinction between Rate and Ratio, Ratio of Vital events, Measures of Mortality: Crude Death Rate, Specific Death Rate, Standardized Death Rate, Direct and Indirect Methods of Standardization, Infant Mortality Rate, Relative Merits and Demerits of all the Rates.	B.A. (Programme)	DSE1-(i): Demography
	Practicals	Chi-square tests of association, Chi-square test of goodness-of-fit, Test for correlation coefficient, Sign test for median, Sign test for symmetry, Wilcoxon two-sample test	Generic Elective	STAT-GE-3: Basics of Statistical Inference
		Allocation problem using Transportation model, Allocation problem using Assignment model.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		To calculate CDR and Age Specific death rate for a given set of data, To find Standardized death rate by:- (i) Direct method (ii) Indirect meth	B.A. (Programme)	DSE1-(i): Demography
	Tutorials			
	Assignment	Based on Unsolved problems of LPP	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Based on Unsolved problems of Death rates	B.A. (Programme)	DSE1-(i): Demography
OCTOBER	Theory	Game theory: Rectangular game, minimax-maximin principle. Solution to rectangular game using graphical method, dominance and modified dominance property to reduce the game matrix and solution to rectangular game with mixed strategy. Networking: Shortest route and minimal spanning tree problem	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Concepts of Stable and Stationary Populations, Central Mortality Rate, Force of Mortality. Approximate expressions for Force of Mortality, Introduction to Life Tables, Life Table Functions and Columns, Assumptions in the construction of Life Tables, Various relationships in the columns of a life table, Construction of Life Tables, Uses of Life Tables.	B.A. (Programme)	DSE1-(i): Demography
	Practicals	Analysis of Variance of a one way classified data, Analysis of Variance of a two way classified data.	Generic Elective	STAT-GE-3: Basics of Statistical Inference
		Networking problem based on Minimal spanning tree problem, Shortest route problem, Problems based on game matrix.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		To construct a complete life table, To fill in the missing entries in a life table, To calculate CBR,	B.A. (Programme)	DSE1-(i): Demography

		GFR, SFR, TFR for a given set of data.		
	Tutorials			
	Test	Test will be based on topics covered before midterm break	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Test will be based on topics covered before midterm break	B.A. (Programme)	DSE1-(i): Demography
NOVEMBER	Theory	Inventory Management: ABC inventory system, characteristics of inventory system. EOQ Model and its variations, with and without shortages, Quantity Discount Model with price breaks.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		Introduction to the concept of Fertility, Difference between Fertility and Fecundity, Measures of Fertility: Crude Birth Rate, General Fertility Rate, Specific Fertility Rate, Total Fertility Rate, Relative merits and demerits of all the Rates, Measures of Population Growth: Crude Rate of Natural Increase, Pearl's Vital Index, Gross Reproduction Rate, Net Reproduction Rate, their relative merits and demerits	B.A. (Programme)	DSE1-(i): Demography
	Practicals	Analysis of a CRD, Analysis of an RBD.	Generic Elective	STAT-GE-3: Basics of Statistical Inference
		To find optimal inventory policy for EOQ models and its variations, To solve all-units quantity discounts model.	B.Sc. (H) Statistics	STAT-DSE-2(A): Operations Research
		To calculate Crude rate of Natural Increase and Pearl's Vital Index for a given set of data, Calculate GRR and NRR for a given set of data and compare them.	B.A. (Programme)	DSE1-(i): Demography
		Tutorials		