SRI VENKATESWARA COLLEGE

2016-17

ODD SEMESTER

TEACHING PLANS

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: KRISHNAKUMAR S (2016-17)

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
	Practicals			
	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;	BA Programme Sem III	Principles of Macroeconomics -I
	Practicals:			
	Tutorials:	Numericals on the basis of the simple Keynesain 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	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>			
NOVEMBER	**Theory:**	Monetary policy. Contemporary global economy and Indian economy. How do we make sense with the course which	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

Name of the Faculty: KRISHNAKUMAR S

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**		BA(Hons) Semester I	C-1: Introductory Microeconomics
	Theory	Scope and method of economics; The economic problem: Scarcity and choice. The basic competitive model; Prices, Property rights and Profits; Incentives and information; Rationing; Opportunity sets;	BA(Hons) Semester I	C-1Introductory Microeconomics
	Tutorials			
AUGUST	**Theory:**	Determinants of individual demand/supply; Demand/supply schedule and demand/supply curve; Market versus individual demand/supply; Shifts in the demand/supply curve, demand and supply together; Elasticity of demand. Consumer surplus, producer surplus and efficiency of	BA(Hons) Semester I	C-1Introductory Microeconomics
	Theory:	Consumer Choice theory, marginalism, indifference curve. Consumer equilibrium, Price consumption curve. Price effect, substitution effect and income effect for normal, inferior and Giffen goods	BA(Hons) Semester I	C-1Introductory Microeconomics
	Tutorials:	Assignments on market demand and supply, elasticity of demand and consumer choice.	BA(Hons) Semester I	C-1Introductory Microeconomics

	Assignment:	Worksheets on the topics based on different textbooks similar to the content of the course		
SEPTEMBER	**Theory:**	Perfect competiton, Assumption and equilibrium. Shut down point. Difference between short run and long run equilibrium. Supply curve of a firm	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Assignments on consumer choice and perfect competition	BA(Hons) Semester I	C-1Introductory Microeconomics
	Test	Class test till the topics on consumer choice theory	BA(Hons) Semester I	C-1Introductory Microeconomics
OCTOBER	**Theory:**	Monopoly. Difference form perfect competition. Condition for equilibrium. Price discrimination. Deadweight losses under monopoly. Contrast output under monopoly with competitive output anti-trust	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Case srudies on issues related to monopoly from sources like CCI, DoJ and newspapers to be presented. Test II	BA(Hons) Semester I	
NOVEMBER	**Theory:**	Shifts in input demand curves; competitive labour markets; and labour markets and public policy.	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Revision of the back of chapter problems.	BA(Hons) Semester I	

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Meenakshi Sharma

Department: ECONOMICS **Semester: III**

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

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

Semester: III, B.A. Programme

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Union Budget The Key to Budget Documents	B.A (Prog) sem III	SEC-understanding Budget Survey and Union
	Tutorials	NO TUTORIALS		
AUGUST	**Theory:**	Union Budget contd Budget at a Glance Understanding Receipts and expenditure side of the Budget. Centre for Budget and Governance Accountability. Chapters 4 to 6. Union Budget of India, Making of Union Budget. Some Discussion: 1. Pranab Mukherjee (2012)	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		
SEPTEMBER	**Theory:**	Economic and Social Classification of Budget. Focus given to the rationale behind the classification, the data is just to help understand the same. Fiscal Federalism in K Basu and A Maertens (ed) The Concise Oxford Companion	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		
	Test 1 :	Union Budget		
OCTOBER	**Theory:**	External Sector: The student should be able to comprehend the balance of payments chart of the country: sections covered under the headings India's merchandise trade,	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		

	<u>Test 2:</u>	External Sector.		
NOVEMBER	**Theory:**	Social Infrastructure, Employment and Human Development. Focus given in this section to trends in social sector expenditure, educational challenges with reference to	B.A (Prog) sem III	SEC- understanding Budget Survey and Union Budget
	Tutorials:			

Semester: V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Fiscal functions: an overview Hindriks & Myles, Chapter 5.	B.A (H) Economics, Sem 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 (Sections: 3.1 to 3.5.4). Cullis & Jones, Chapter 12 (Sections: 12.1 to 12.4.2)	B.A (H) Economics, Sem V	Public Economics
	Tutorials:	Fiscal Function and Public Goods		
	TEST 1	Fiscal Function and Public Goods		
SEPTEMBER	**Theory:**	Externalities: the problem and its solutions, taxes versus regulation, property rights, the Coase theorem Taxation: its economic effects; dead weight loss and distortion, efficiency and equity considerations.	B.A (H) Economics, Sem V	Public Economics
	Tutorials:	Externalities & Taxation		
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, Sem V	Public Economics

	Tutorials:	Externalities & Taxation		
	<u>Test 2</u>	Externalities & Taxation		
NOVEMBER	**Theory:**	Indian Public Finance Tax System: structure and reforms Contd.. 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,"	B.A (H) Economics, Sem V	Public Economics

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: BRAHMAREDDY D

Department: ECONOMICS **Semester: III/V 2016-17**

Month		Topics	Course	Paper Code/Name
JULY & AUGUST	Theory	Topic 1. The Aggregate D TOPIC 1 MONEY: Concept, Functions, Measurement, Theories Of Money Supply Determination Topic 2 Financial Institutions, Markets, Instruments And Financial Innovations: A) Role Of Financial Markets And Institutions; Problems Of Asymmetric Information –	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials	1. Discussion of Chapter end questions and problems 2.	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
SEPTEMBER	Theory:	Inflation, Unemployment and Expectations b) Money and Capital Markets; Organization, Structure and Reforms in	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials:	1. Discussion of Chapter end questions and problems	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets

OCTOBER	Theory:	Open Economy Models BANKING SYSTEM: a) Balance Sheet and Portfolio Management b) Indian Banking System. Changing Role and Structure, Banking Sector Reforms	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials: 1. Discussion of Chapter end questions and problems 2.		B.A. (H)-II Economics B.A. (H)-III	Intermediate Macroeconomics Money &
	TEST: Project Presentation	25th October 27th October to 4th November		
NOVEMBER	Theory:	I. Open Economy Models II. TOPIC 5 CENTRAL BANKING AND MONETARY POLICY Functions, Balance Sheet Goals, Targets, Indicators	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials: 1. Discussion of Chapter end questions and problems 2. 2. Project Discussion		B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Test Project Presentation	8th November 2017 9th-14th November 2017	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets

Name of the Faculty: N. KALITHASAMMAL

Department: Economics **Semester:I**

Month		Topics	Course	Paper Name/
JULY	**Theory**	Concepts of scarcity and choice, demand and supply, determination and movements in supply, and demand curves, elasticity, applications.	**B.A (Prog.) I yr.**	**Principles of micro economics**
	Tutorials	Equilibrium and determination of demand and supply		
AUGUST	**Theory:**	Consumer theory and cardinal and IC curves, budget line		
	Tutorials:	Derivation of PCC, ICC, IC and budget line and consumer's equilibrium.		
SEPTEMBER	**Theory:**	Market structure, concepts of PC market, derivation of MR, AR AND TR, equilibrium, long run industry's supply curve.		
	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.		
	Theory:	Production and cost, iso cost and quants, returns to scale, maximization, equilibrium.		

OCTOBER, NOVEMBER	**Tutorials:**	Technological changes, cost minimization and profit maximization.		
		Finalization of internal assessments.		

SRI VENKATESWARA COLLEGE

Name of the Faculty: N. KALITHASAMMAL

Department: Economics **Semester: V**

Month		Topics	Course	Paper Name/
JULY 2016	**Theory:**	Objectives and organisation and functions of IMF, India and the IMF	B. Com (Prog.)	International trade
	Tutorials:	Role of Gold and The Critical Appraisal of Fund Explained Through Various Materials		
AUGUST	**Theory:**	Foreign exchange rate and its theories.		
	Tutorials:	Theories explained with paper presentation of the various groups of students		
SEPTEMBER	**Theory:**	Exchange rates and various methods of exchange rate systems.		
	Tutorials:	Theory of factor endowments and theory of opportunity cost taken with supportive tools.		
	Assignment	Both assignment and test taken.		
	Theory:	Comparative costs theory, terms of trade		

OCTOBER, NOVEMBER	**Tutorials:**	Fee trade versus protection		
	<u>Test</u>	Group assignments and test taken.		

SRI VENKATESWARA COLLEGE

Name of the Faculty: PAPIYA GHOSH

Department: ECONOMICS **Semester : I**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Sets and set operations; relations, Logic and proof techniques	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals	NA	NA	NA
	Tutorials	SETS AND SET OPERATIONS	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
AUGUST	**Theory:**	Functions and their properties; Number systems, Some important functions like quadratic, polynomial, exponential and their	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Practicals:			
	Tutorials: **Assignment:**	Logic and proof techniques, Functions: Properties and various types of functions On the topics covered in July and August	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
SEPTEMBER	**Theory:**	Series and sequence, Convergence, continuity and differentiabilty of functions, Derivatives and their	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR

		More on exponential functions. Logarithmic functions and its properties and applications		
	Practicals:			
	Tutorials: **Test**	Applications of various functional forms,series and sequence and their convergence and applications Based on the syllabus till	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Assignment :	On the topics covered this month		
OCTOBER	**Theory:**	Single variable optimization, Integration, Difference equation	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals:			
	Tutorials: **Assignment:**	Derivatives and its applications, Applications of Optimization theory, Basic integration problems On the topics covered in October	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Test	Full syllabus	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-
NOVEMBER	**Theory:**	Revision of the syllabus	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals:	NA	NA	NA
	Tutorials:	Some more integration problems and those on difference equations	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: PAPIYA GHOSH

Department: ECONOMICS **Semester: V**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction, Importance of game theory, Some important concepts and definitions	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Practicals			
	Tutorials	----------		22C/ Topics in Microeconomics - I
AUGUST	**Theory:**	Formulation of Strategic games, some important strategic games and their applications	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Practicals:			
	Tutorials:	Solving problems from ch 2, 3 and 4 from the prescribed text	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Assignment:			
SEPTEMBER	**Theory:**	Mixed strategy games and their applications, introduction to extensive games	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			

	Tutorials:	Solved Problems on mixed strategy	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Test	On strategic games	B.A.(HONS.)	22C/Topics in Microeconomics - I
OCTOBER	**Theory:**	More on extensive games, various equilibrium notions for analyzing such games and their illustrations	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			
	Tutorials: **Test**	Solved problems on extensive games from prescribed text and otherwise Mixed strategy and a portion	B.A.(HONS.) B.A.(HONS.)	22C/Topics in Microeconomics - I
NOVEMBER	**Theory:**	Revision of the full course	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			
	Tutorials: **Test:**	More Problems on whole syllabus	B.A.(HONS.)	22C/Topics in Microeconomics - I

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: V/BA (P)**

Month		**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory:**	1. Issues in Growth, Development and Sustainability 2. Factors in Development	B.A(P)/V-Semester	227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Issues in Growth, Development and Sustainability 2.Factors in Development	B.A(P)/V-Semester	
OCTOBER	**Theory:**	1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment		227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment	B.A(P)/V-Semester	

	Test	***Test-1*** **consists of the following topics** 1. Issues in Growth, Development and Sustainability 2.Factors in Development 3. Centre-state financial relations; 14th Finance Commission Report 4. Critical evaluation of growth, inequality, poverty and competitiveness, pre and post reform era		
NOVEMBER	**Theory:**	1.Mobilisation of internal and external finance 2.Revision of all the topics and discussion from each Chapter		227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Mobilisation of internal and external finance 2.Revision of all the topics and discussion from each chapter	B.A(P)/V-Semester	
	Test	***Test-2*** **consists of the following topics** 1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment		

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: V/BA (Hons)-Economics**

Month		**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory:**	1. **Sacchidananda Mukherjee (2015). "Present State of Goods and Services Tax (GST) Reform in India,"** *Working Paper*, NIPFP- New Delhi 2**. Y. V. Reddy (2015). "Fourteenth Finance Commission, Continuity, Change and Way Forward,"** *Economic and Political Weekly*, 23 May 2015 3. **M. Govinda Rao (2005). "Changing Contours of Federal Fiscal Arrangements in India"** in Amaresh Bagchi (ed.) ***Readings in Public Finance,*** Oxford Unity Press.	B.A(Hons)/ V-Semester	227503/Public Economics
	Practicals:			
	Tutorials:			

OCTOBER	**Theory:**	1**. C. Rangarajan and D. K. Srivastava (2005). "Fiscal Deficit and Government Debt: Implications for Growth and Stabilization",** *Economic and Political Weekly*, July 2, 2005, 2. **Fiscal Federalism and Local Governments** (John Cullis and Philip Jones, *Public Finance and Public Choice*, Chapter 12- Sections: 12.4.3a and 12.7).		227503/Public Economics
	Practicals:			
	Tutorials:			
	<u>Test</u>	***<u>Test-1</u>* consists of the following topics** 1.Present State of Goods and Services Tax(GST) Reform in India 2. Fourteenth Finance Commission-Continuity, Change and Way Forward 3.Changing Contours in Federal-Fiscal Arrangements in India 4. Fiscal Deficit and Government Debt: Implications for Growth and Stabilization		227503/Public Economics
NOVEMBER	**Theory:**	Revision of all the topics as well as discussion on exam point of view		227503/Public Economics
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: III-BA (Hons)-Economics**

Month		Topics	Course	Paper Code/Name
SEPTEMBER	**Theory:**	1. Writing A Research Proposal 2.The Research Design 3.Displaying and analysis of Data 4. A detailed discussion on Project work/ Research paper with each individual group (**CH 17, 13, 15 and 16** from **Ranjit Kumar** "**Research Methodology: A Step-by-Step Guide for Beginners",** 4th Edition, 2016, Sage Publications.	B.A(Hons)/ III-Semester	SEC-12273302 /Research Methodology
	Practicals:			
	Tutorials:			
OCTOBER	**Theory:**	1.Sample Selection Methods 2.Using Secondary &Primary data (CH, 12. 9, 10 and 11 Ranjit Kumar)	B.A(Hons)/ III-Semester	SEC-12273302 /Research Methodology
	Practicals:			
	Tutorials:			

	Test	**Test-1 consists of the following topics** **1**. Research Process, Literature Review 2. Formulating A research Problem 3. Identifying variables 4.Contructing Hypothesis 5.The Research Design 6. Displaying and analysis of Data 7. Writing A Research Proposal **Project Work** 1. *Assessment on Project Reports/Research papers and Conducting Group/Individual presentations on different area of research for instance* 1.**Trends and pattern of Household's Savings Behaviour in India** **2.Defence Expenditure and Economic Growth: A Parallel Study** **3.Implications of GST(Goods and Services Tax) on Indian Economy** **4.Impact of E-Commerce on Retail Business** **5. Impact of Changes in Crude Oil prices on India's Trade** **6.A Study on Educational Expenditure in Delhi University**		

		7.Impact of Internet and Social Media on Modern Lifestyle		
NOVEMBER	**Theory:**	1.Research Ethics 2.Revision of all the topics 3. Discussion on exam point of View ***4.*** *Assessment on reaming Project Reports/Research papers and Conducting Group/Individual presentations on various topics of Research for example* **1. Computing Environmental Kuznets Curve in Emerging Economies: A Study on China and India** **2.Effects of Repo-Rate on Households** **3.Economics and Abortions** **4.Credit Policy and Growth in India: During Post-Reforms Period** **5.Effects of Natural Disasters on Growth: A Cross-Sectional Analysis** **6.Economic State and Affairs of European Union(EU)**		SEC-12273302 /Research Methodology
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: KRISHNAKUMAR S (2016-17)

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
	Practicals			
	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;	BA Programme Sem III	Principles of Macroeconomics -I
	Practicals:			
	Tutorials:	Numericals on the basis of the simple Keynesain 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	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>			
NOVEMBER	**Theory:**	Monetary policy. Contemporary global economy and Indian economy. How do we make sense with the course which	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

Name of the Faculty: KRISHNAKUMAR S

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**		BA(Hons) Semester I	C-1: Introductory Microeconomics
	Theory	Scope and method of economics; The economic problem: Scarcity and choice. The basic competitive model; Prices, Property rights and Profits; Incentives and information; Rationing; Opportunity sets;	BA(Hons) Semester I	C-1Introductory Microeconomics
	Tutorials			
AUGUST	**Theory:**	Determinants of individual demand/supply; Demand/supply schedule and demand/supply curve; Market versus individual demand/supply; Shifts in the demand/supply curve, demand and supply together; Elasticity of demand. Consumer surplus, producer surplus and efficiency of	BA(Hons) Semester I	C-1Introductory Microeconomics
	Theory:	Consumer Choice theory, marginalism, indifference curve. Consumer equilibrium, Price consumption curve. Price effect, substitution effect and income effect for normal, inferior and Giffen goods	BA(Hons) Semester I	C-1Introductory Microeconomics
	Tutorials:	Assignments on market demand and supply, elasticity of demand and consumer choice.	BA(Hons) Semester I	C-1Introductory Microeconomics

	Assignment:	Worksheets on the topics based on different textbooks similar to the content of the course		
SEPTEMBER	**Theory:**	Perfect competiton, Assumption and equilibrium. Shut down point. Difference between short run and long run equilibrium. Supply curve of a firm	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Assignments on consumer choice and perfect competition	BA(Hons) Semester I	C-1Introductory Microeconomics
	Test	Class test till the topics on consumer choice theory	BA(Hons) Semester I	C-1Introductory Microeconomics
OCTOBER	**Theory:**	Monopoly. Difference form perfect competition. Condition for equilibrium. Price discrimination. Deadweight losses under monopoly. Contrast output under monopoly with competitive output anti-trust	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Case srudies on issues related to monopoly from sources like CCI, DoJ and newspapers to be presented. Test II	BA(Hons) Semester I	
NOVEMBER	**Theory:**	Shifts in input demand curves; competitive labour markets; and labour markets and public policy.	BA(Hons) Semester I	C-1Introductory Microeconomics
	Practicals:			
	Tutorials:	Revision of the back of chapter problems.	BA(Hons) Semester I	

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Meenakshi Sharma

Department: ECONOMICS **Semester: III**

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

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

Semester: III, B.A. Programme

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Union Budget The Key to Budget Documents	B.A (Prog) sem III	SEC-understanding Budget Survey and Union
	Tutorials	NO TUTORIALS		
AUGUST	**Theory:**	Union Budget contd Budget at a Glance Understanding Receipts and expenditure side of the Budget. Centre for Budget and Governance Accountability. Chapters 4 to 6. Union Budget of India, Making of Union Budget. Some Discussion: 1. Pranab Mukherjee (2012)	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		
SEPTEMBER	**Theory:**	Economic and Social Classification of Budget. Focus given to the rationale behind the classification, the data is just to help understand the same. Fiscal Federalism in K Basu and A Maertens (ed) The Concise Oxford Companion	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		
	Test 1 :	Union Budget		
OCTOBER	**Theory:**	External Sector: The student should be able to comprehend the balance of payments chart of the country: sections covered under the headings India's merchandise trade,	B.A (Prog) sem III	SEC-understanding Budget Survey and Union Budget
	Tutorials:	NO TUTORIALS		

	<u>Test 2:</u>	External Sector.		
NOVEMBER	**Theory:**	Social Infrastructure, Employment and Human Development. Focus given in this section to trends in social sector expenditure, educational challenges with reference to	B.A (Prog) sem III	SEC- understanding Budget Survey and Union Budget
	Tutorials:			

Semester: V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Fiscal functions: an overview Hindriks & Myles, Chapter 5.	B.A (H) Economics, Sem 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 (Sections: 3.1 to 3.5.4). Cullis & Jones, Chapter 12 (Sections: 12.1 to 12.4.2)	B.A (H) Economics, Sem V	Public Economics
	Tutorials:	Fiscal Function and Public Goods		
	TEST 1	Fiscal Function and Public Goods		
SEPTEMBER	**Theory:**	Externalities: the problem and its solutions, taxes versus regulation, property rights, the Coase theorem Taxation: its economic effects; dead weight loss and distortion, efficiency and equity considerations.	B.A (H) Economics, Sem V	Public Economics
	Tutorials:	Externalities & Taxation		
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, Sem V	Public Economics

	Tutorials:	Externalities & Taxation		
	<u>Test 2</u>	Externalities & Taxation		
NOVEMBER	**Theory:**	Indian Public Finance Tax System: structure and reforms Contd.. 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,"	B.A (H) Economics, Sem V	Public Economics

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: BRAHMAREDDY D

Department: ECONOMICS **Semester: III/V 2016-17**

Month		Topics	Course	Paper Code/Name
JULY & AUGUST	Theory	Topic 1. The Aggregate D TOPIC 1 MONEY: Concept, Functions, Measurement, Theories Of Money Supply Determination Topic 2 Financial Institutions, Markets, Instruments And Financial Innovations: A) Role Of Financial Markets And Institutions; Problems Of Asymmetric Information –	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials	3. Discussion of Chapter end questions and problems 4.	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
SEPTEMBER	Theory:	Inflation, Unemployment and Expectations b) Money and Capital Markets; Organization, Structure and Reforms in	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials:	3. Discussion of Chapter end questions and problems	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets

OCTOBER	Theory:	Open Economy Models BANKING SYSTEM: a) Balance Sheet and Portfolio Management b) Indian Banking System. Changing Role and Structure, Banking Sector Reforms	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials: 3. Discussion of Chapter end questions and problems 4.		B.A. (H)-II Economics B.A. (H)-III	Intermediate Macroeconomics Money &
	TEST: Project Presentation	25th October 27th October to 4th November		
NOVEMBER	Theory:	III. Open Economy Models IV. TOPIC 5 CENTRAL BANKING AND MONETARY POLICY Functions, Balance Sheet Goals, Targets, Indicators	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Tutorials: 3. Discussion of Chapter end questions and problems 4. 2. Project Discussion		B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets
	Test Project Presentation	8th November 2017 9th-14th November 2017	B.A. (H)-II Economics B.A. (H)-III Economics	Intermediate Macroeconomics Money & Financial Markets

Name of the Faculty: N. KALITHASAMMAL

Department: Economics **Semester:I**

Month		Topics	Course	Paper Name/
JULY	**Theory**	Concepts of scarcity and choice, demand and supply, determination and movements in supply, and demand curves, elasticity, applications.	**B.A (Prog.) I yr.**	**Principles of micro economics**
	Tutorials	Equilibrium and determination of demand and supply		
AUGUST	**Theory:**	Consumer theory and cardinal and IC curves, budget line		
	Tutorials:	Derivation of PCC, ICC, IC and budget line and consumer's equilibrium.		
SEPTEMBER	**Theory:**	Market structure, concepts of PC market, derivation of MR, AR AND TR, equilibrium, long run industry's supply curve.		
	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.		
	Theory:	Production and cost, iso cost and quants, returns to scale, maximization, equilibrium.		

OCTOBER, NOVEMBER	**Tutorials:**	Technological changes, cost minimization and profit maximization.		
		Finalization of internal assessments.		

SRI VENKATESWARA COLLEGE

Name of the Faculty: N. KALITHASAMMAL

Department: Economics **Semester: V**

Month		Topics	Course	Paper Name/
JULY 2016	**Theory:**	Objectives and organisation and functions of IMF, India and the IMF	B. Com (Prog.)	International trade
	Tutorials:	Role of Gold and The Critical Appraisal of Fund Explained Through Various Materials		
AUGUST	**Theory:**	Foreign exchange rate and its theories.		
	Tutorials:	Theories explained with paper presentation of the various groups of students		
SEPTEMBER	**Theory:**	Exchange rates and various methods of exchange rate systems.		
	Tutorials:	Theory of factor endowments and theory of opportunity cost taken with supportive tools.		
	Assignment	Both assignment and test taken.		
	Theory:	Comparative costs theory, terms of trade		

OCTOBER, NOVEMBER	**Tutorials:**	Fee trade versus protection		
	<u>Test</u>	Group assignments and test taken.		

SRI VENKATESWARA COLLEGE

Name of the Faculty: PAPIYA GHOSH

Department: ECONOMICS **Semester : I**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Sets and set operations; relations, Logic and proof techniques	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals	NA	NA	NA
	Tutorials	SETS AND SET OPERATIONS	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
AUGUST	**Theory:**	Functions and their properties; Number systems, Some important functions like quadratic, polynomial, exponential and their	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Practicals:			
	Tutorials: **Assignment:**	Logic and proof techniques, Functions: Properties and various types of functions On the topics covered in July and August	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
SEPTEMBER	**Theory:**	Series and sequence, Convergence, continuity and differentiabilty of functions, Derivatives and their	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR

		More on exponential functions. Logarithmic functions and its properties and applications		
	Practicals:			
	Tutorials: **Test**	Applications of various functional forms,series and sequence and their convergence and applications Based on the syllabus till	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Assignment :	On the topics covered this month		
OCTOBER	**Theory:**	Single variable optimization, Integration, Difference equation	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals:			
	Tutorials: **Assignment:**	Derivatives and its applications, Applications of Optimization theory, Basic integration problems On the topics covered in October	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-I
	Test	Full syllabus	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR ECONOMICS-
NOVEMBER	**Theory:**	Revision of the syllabus	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR
	Practicals:	NA	NA	NA
	Tutorials:	Some more integration problems and those on difference equations	B.A.(HONS.)	02/ MATHEMATICAL METHODS FOR

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: PAPIYA GHOSH

Department: ECONOMICS **Semester: V**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction, Importance of game theory, Some important concepts and definitions	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Practicals			
	Tutorials	----------		22C/ Topics in Microeconomics - I
AUGUST	**Theory:**	Formulation of Strategic games, some important strategic games and their applications	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Practicals:			
	Tutorials:	Solving problems from ch 2, 3 and 4 from the prescribed text	B.A.(HONS.)	22C/ Topics in Microeconomics - I
	Assignment:			
SEPTEMBER	**Theory:**	Mixed strategy games and their applications, introduction to extensive games	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			

	Tutorials:	Solved Problems on mixed strategy	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Test	On strategic games	B.A.(HONS.)	22C/Topics in Microeconomics - I
OCTOBER	**Theory:**	More on extensive games, various equilibrium notions for analyzing such games and their illustrations	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			
	Tutorials: **Test**	Solved problems on extensive games from prescribed text and otherwise Mixed strategy and a portion	B.A.(HONS.) B.A.(HONS.)	22C/Topics in Microeconomics - I
NOVEMBER	**Theory:**	Revision of the full course	B.A.(HONS.)	22C/Topics in Microeconomics - I
	Practicals:			
	Tutorials: **Test:**	More Problems on whole syllabus	B.A.(HONS.)	22C/Topics in Microeconomics - I

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: V/BA (P)**

Month		**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory:**	1. Issues in Growth, Development and Sustainability 2. Factors in Development	B.A(P)/V-Semester	227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Issues in Growth, Development and Sustainability 2.Factors in Development	B.A(P)/V-Semester	
OCTOBER	**Theory:**	1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment		227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment	B.A(P)/V-Semester	

	Test	***Test-1*** **consists of the following topics** 1. Issues in Growth, Development and Sustainability 2.Factors in Development 3. Centre-state financial relations; 14th Finance Commission Report 4. Critical evaluation of growth, inequality, poverty and competitiveness, pre and post reform era		
NOVEMBER	**Theory:**	1.Mobilisation of internal and external finance 2.Revision of all the topics and discussion from each Chapter		227551/Economic Development and Policy in India-1
	Practicals:			
	Tutorials:	1.Mobilisation of internal and external finance 2.Revision of all the topics and discussion from each chapter	B.A(P)/V-Semester	
	Test	***Test-2*** **consists of the following topics** 1.Population and Economic Development 2. Employment 3. Monetary and fiscal policies 4. Savings and investment		

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: V/BA (Hons)-Economics**

Month		**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory:**	1. **Sacchidananda Mukherjee (2015). "Present State of Goods and Services Tax (GST) Reform in India,"** *Working Paper*, NIPFP- New Delhi 2**. Y. V. Reddy (2015). "Fourteenth Finance Commission, Continuity, Change and Way Forward,"** *Economic and Political Weekly*, 23 May 2015 3. **M. Govinda Rao (2005). "Changing Contours of Federal Fiscal Arrangements in India"** in Amaresh Bagchi (ed.) ***Readings in Public Finance,*** Oxford Unity Press.	B.A(Hons)/ V-Semester	227503/Public Economics
	Practicals:			
	Tutorials:			

OCTOBER	**Theory:**	1**. C. Rangarajan and D. K. Srivastava (2005). "Fiscal Deficit and Government Debt: Implications for Growth and Stabilization",** *Economic and Political Weekly*, July 2, 2005, 2. **Fiscal Federalism and Local Governments** (John Cullis and Philip Jones, *Public Finance and Public Choice*, Chapter 12- Sections: 12.4.3a and 12.7).		227503/Public Economics
	Practicals:			
	Tutorials:			
	<u>Test</u>	***<u>Test-1</u>* consists of the following topics** 1.Present State of Goods and Services Tax(GST) Reform in India 2. Fourteenth Finance Commission-Continuity, Change and Way Forward 3.Changing Contours in Federal-Fiscal Arrangements in India 4. Fiscal Deficit and Government Debt: Implications for Growth and Stabilization		227503/Public Economics
NOVEMBER	**Theory:**	Revision of all the topics as well as discussion on exam point of view		227503/Public Economics
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN (2016-17)
SRI VENKATESWARA COLLEGE

Name of the Faculty: P.Srinivasa Rao

Department: ECONOMICS **Semester: III-BA (Hons)-Economics**

Month		Topics	Course	Paper Code/Name
SEPTEMBER	**Theory:**	1. Writing A Research Proposal 2.The Research Design 3.Displaying and analysis of Data 4. A detailed discussion on Project work/ Research paper with each individual group (**CH 17, 13, 15 and 16** from **Ranjit Kumar** "**Research Methodology: A Step-by-Step Guide for Beginners",** 4th Edition, 2016, Sage Publications.	B.A(Hons)/ III-Semester	SEC-12273302 /Research Methodology
	Practicals:			
	Tutorials:			
OCTOBER	**Theory:**	1.Sample Selection Methods 2.Using Secondary &Primary data (CH, 12. 9, 10 and 11 Ranjit Kumar)	B.A(Hons)/ III-Semester	SEC-12273302 /Research Methodology
	Practicals:			

	Tutorials:			
	Test	**Test-1 consists of the following topics** **1**. Research Process, Literature Review 2. Formulating A research Problem 3. Identifying variables 4.Contructing Hypothesis 5.The Research Design 6. Displaying and analysis of Data 7. Writing A Research Proposal **Project Work** 1. *Assessment on Project Reports/Research papers and Conducting Group/Individual presentations on different area of research for instance* 1.**Trends and pattern of Household's Savings Behaviour in India** **2.Defence Expenditure and Economic Growth: A Parallel Study** **3.Implications of GST(Goods and Services Tax) on Indian Economy** **4.Impact of E-Commerce on Retail Business** **5. Impact of Changes in Crude Oil prices on India's Trade**		

		6.A Study on Educational Expenditure in Delhi University **7.Impact of Internet and Social Media on Modern Lifestyle**		
NOVEMBER	**Theory:**	1.Research Ethics 2.Revision of all the topics 3. Discussion on exam point of View *4. Assessment on reaming Project Reports/Research papers and Conducting Group/Individual presentations on various topics of Research for example* **1. Computing Environmental Kuznets Curve in Emerging Economies: A Study on China and India** **2.Effects of Repo-Rate on Households** **3.Economics and Abortions** **4.Credit Policy and Growth in India: During Post-Reforms Period** **5.Effects of Natural Disasters on Growth: A Cross-Sectional Analysis** **6.Economic State and Affairs of European Union(EU)**		SEC-12273302 /Research Methodology

	Practicals:			
	Tutorials:			

SEMESTER WISE
TEACHING PLAN (2016-2017)
SRI VENKATESWARA COLLEGE

Name of the Faculty: DR JITA MISHRA **Department:Political Science**

Semester : I/ 111/V **CLASSICAL POLITICAL PHILOSOPHY**

Month		Topics	Course	Paper Code/Name
JANUARY	**Theory**	Text and interpretation	BA HONS Political Science IIIyear Semester v	PAPERXI 5.1 Classical Political Philosophy
	Practicals			
	Tutorials	Interpretation		
FEBRUARY	**Theory:**	Plato		

	Practicals:			
	Tutorials:	Plato s philosopher kings ,theory of forms		

	Assignment :	Critically evaluate Plato's theory of Justice
MARCH	**Theory:**	Aristotle-forms ,virtue,citizenship, nstate and household
	Practicals:	
	Tutorials:	Classification of government
	Test	Critically evaluate Aristotle's theory of citizenship

APRIL	**Theory:**	Machiavelli Virtue religion Republicanism
	Practicals:	
	Tutorials:	Statecraft

MAY	**Theory:**	Hobbes and Locke
	Practicals:	
	Tutorials:	Social contract

SEMESTER WISE
TEACHING PLAN (2016-2017)
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:**	Liberal Theory of Feminism. Discussion of First Wave of Feminism with special reference to Mary Wollstonecraft & other Feminist authors. Marxist theory of Feminism with special reference to Marx and Engels perspective on Feminism		

	Practicals:			
	Tutorials:	Understanding Sex/Gender distinctions in day to day living		

	Assignment:	Critically Examine the liberal theory of Feminism from Marxian Perspective
SEPTEMBER	**Theory:**	Socialist Theory of Feminism with Special reference to Dual Patriarchy, Zilla Einstein's notion of Capitalist Patriarchy Emphasis on Women's Question from Neomarxist Perspective Radical Theory of Feminism
	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:**	Tradtional Histiography and Feminist Critiques: A Criticism of Traditional History by Analyzing the Social Reform movement and Indian National Movement & Position of Women in India Family in India: Patrilineal and Matrilineal, Patterns of Consumption, Intra Household Bargaining and Entitlement, Property Rights 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
	Practicals:	
	Tutorials:	A discussion on domestic labor debate emerging in the context of unpaid labour

SRI VENKATESWARA COLLEGE

2016-17

ODD SEMESTERS

TEACHING PLANS

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr. Sarika Yadav** **Department: BIOCHEMISTRY**

Semester: I/III/V (2016-17)

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
		NO ADMISSIONS	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Biocompatibility of Bio-materials, wound-healing process	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials
		Practicals		
	Practical	Determination of CMC of SDS by measuring conductivity	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Introduction about Genetics Practicals, Preparation of Drosophila food	B. Sc (H) Biochemistry, III Yr, Sem V	GGHP-501: Genetics and Genomics-I
		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
		Introduction to proteins: Polypeptides and proteins. Subunit structures, conjugated proteins, diversity of function. Secondary structure- helices and sheets, Ramachandran Map	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Body response to implants, blood compatibility. Tests to assess biocompatibility of a polymer	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials

	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
		Drosophila as model organism, Life cycle of Drosophila, Preparation of Drosophila Food, Analysis of Drosophila Mutants. Preparation of cheek cell smear for Barr bodies	B. Sc (H) Biochemistry, III Yr, Sem V	GGHP-501: Genetics and Genomics-I
		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
<u>September</u>	**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
		Tertiary and quaternary structures, Nature of non-covalent bonds and covalent bonds in protein folding.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Modifications to improve biocompatibility. Reactions of biomaterials with cellular and extra cellular components	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials
	Practical	Separation of photosynthetic pigments from spinach leaves by TLC, Separation of photosynthetic pigments Spirulina by TLC, RBC ghost cell preparation, Seperation 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
		Preparation of Drosophila food, Polytene Chromosome from Drosphila larvae, Mendelian laws and gene interaction, Chi-square and probability, Epistasis (Dry Lab), Study of Human and *Phlox/ Allium* Karyotype (normal and abnormal) (Dry lab), Pedigree analysis of some human inherited traits	B. Sc (H) Biochemistry, III Yr, Sem V	GGHP-501: Genetics and Genomics-I
		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

	Test	Introduction to Biomembranes (Unit 1), Membrane structure (Unit 2), Membrane Dynamics	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Primary and secondary Structure of Proteins	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
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.	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Features of enzyme catalysis, superior catalytic power. General mechanisms of catalysis. Nomenclature. Principles of reaction rates, order of reactions and equilibrium constants. Derivation of Michaelis-Menten equation. Significance of Km and Vmax. Catalytic efficiency parameters. Competitive and mixed inhibitions.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Blood interfacing implants, hard tissue replacement implants, internal Fractures fixation devices, joint replacements. Artificial Organs. Artificial Heart, Prosthetic cardiac Valves, Limb prosthesis, Externally Powered limb, prosthesis, Dental Implants	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials
	Practical	Isolation of mitochondria from liver and assay of marker enzyme SDH, Study photosynthetic O2 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
		Karyotyping (repeat), Drosophila Crosses set up and Study of Linkage, recombination, gene mapping using data from *Drosophila crosses*. Separation of Drosophila eye pigments on TLC	B. Sc (H) Biochemistry, III Yr, Sem V	GGHP-501: Genetics and Genomics-I
		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
	Test	Biocompatibility of Bio-materials, wound-healing process, Body response to implants, blood compatibility. Tests to assess biocompatibility of a polymer, Modifications to improve biocompatibility. Reactions of biomaterials with cellular and extra cellular components	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials

	Assignment	Thermodynamics of Transport, types of transports, Active and passive transports	B.Sc. Biochemistry (H) II Yr, Sem III	CBCS C-6: Membrane Biology and Bioenergetics
		Secondary structure of Proteins: Alpha helix, Beta sheets, beta turns, Fibrous Proteins: Alpha Keratins, Collagens, Silk Fibroin	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Tests of Biocompatibility of polymers	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials
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
		Kinetics and diagnostic plots. Types of irreversible Inhibitors.	B.Sc. Biochemistry (H) I Yr, Sem. II	CBCS GE-2: Proteins and Enzymes
		Liposomes, hydrogels and Nanomaterials in drug delivery. Biomaterials in diagnostics and bioanalytical techniques.	B. Sc. (H) Biol. Sciences III Yr, Sem V	BIST 503: Biomaterials
	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) Biochemistry, III Yr, Sem V	GGHP-501: Genetics and Genomics-I
		Revision of practicals, Mock Practical Examination	P.G. Diploma in Molecular & Biochemical Technology (Sem I)	PGD MBL 106 : Immunology - I

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. NIMISHA SINHA Department: BIOCHEMISTRY

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit 2: Hormone mediated signaling: Hormone receptors - extracellular and intracellular. Introduction to G protein coupled receptors	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		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
	Practicals	1. Introduction to Endocrinology. 2. Glucose oxidase peroxidase (GOD-POD)Assay	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		1. Buffer Preparation 2. Determination of pKa of Acectic Acid	B.Sc (Hons) Biological Sciences,II Year, Semester III	BIST 503: Proteins and Enzymes
AUGUST	**Theory**	Unit 2 (contd) G proteins, second messengers - cAMP, cGMP, IP3, DAG, Ca2+, NO. Effector systems - adenyl cyclase, guanyl cyclase, PDE, PLC. Protein kinases (PKA, PKB, PKC, PKG).	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		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. Organization of Golgi. Combined test was conducted by the two faculties teaching this course.	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C2: Cell Biology
		Unit 2: Introduction to cloning vectors. Plasmids: Classification of plasmids, Regulation of plasmid copy number, Applications and introduction to pBR322, Selection markers. Phage based vectors: Filamentous phage and Lambda phage vectors	PGDMB	PGDMB102 Recombinant DNA technology
		Unit 3: Electrophoresis: Types of electrophoresis, SDS-PAGE, native and denaturing gels	B.Sc (Hons) Biological Sciences,II Year, Semester III	SEC 5: Biochemical Techniques

	Practicals:	1. Glucose oxidase peroxidase based Glucose tolerance test 2. Estimation of Ca^{++} levels in serum	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		1. Determination of protein concentration using Biuret Test 2. Lowry's method 3. Practical exam as a part of continuous evaluation- Biuret test	B.Sc (Hons) Biological Sciences,II Year, Semester III	BIST 503: Proteins and Enzymes
		1. Glucose oxidase peroxidase (GOD-POD) Assay 2. Glucose oxidase peroxidase based Glucose tolerance test	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	GE 7 Biochemical correlation of diseases
SEPTEMBER	**Theory**	Unit 2(Contd) Receptor tyrosine kinases - EGF, insulin, erythropoietin receptor; ras - MAP kinase cascade, JAK - STAT pathway. Steroid hormone/ thyroid hormone receptor mediated gene regulation. Receptor regulation and cross talk. Unit 6 Pancreatic and GI tract hormones: Regulation of release of gastrin, secretin, CCK, GIP, adipolectin, leptin and ghrelin. Summary of hormone metabolite control of GI function. Physiological and biochemical action	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		Unit 3 (contd) Lysosome. Overview of protein sorting to cell cellular organelles. Endocytosis, Pinocytosis and phagocytosis. Unit 4 Cytoskeletal proteins: Introduction to cytoskeletal proteins Actin, Myosin, Tubulin.. Organization of cytoskeletal protein RBC and smooth muscle and skeletal muscles.	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C2: Cell Biology
		Unit 2 (contd): Cosmids, High capacity vectors PAC, BAC, P1 phage based vectors. Unit 6. Probe designing and Hybridization: Degenerate probe, Guessmers, Stringent and relaxed hybridizations.	PGDMB	PGDMB 102 Recombinant DNA technology
		Unit 3: Electrophoresis: DNA gel electrophoresis, Blotting techniques, Southern, Northern and westerrn blotting	B.Sc (Hons) Biological Sciences,II Year, Semester III	SEC5: Biochemical Techniques
	Practicals	1. Estimation of T4 levels in serum 2. Estimation of TSH levels in serum 3. Case study	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		1. Preparation of crude extract of Mung bean and assay of acid phosphotase to determine enzyme activity. 2. Progress curve of Acid phosphotase 3. Thin Layer Chromatography to separate amino acids	B.Sc (Hons) Biological Sciences,II Year, Semester III	BIST 503: Proteins and Enzymes
		1. Blood pressure measurement 2. Estimation of TAGs and cholesterol in serum sample 3. Anthropometric studies: BMR determination	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	GE7-Biochemical correlation of diseases
	<u>Test</u>	Unit 2 Tools and techniques in Cell biology Combined test conducted by teachers teaching this course.	B.Sc. BIOCHEMISTRY Hons.) I Year,	CBCS C2: Cell Biology

			Semester I	
OCTOBER	**Theory and Practicals:**	On Duty Leave wef 1st October to 28th October 2016 to attend 8th Orientation Course, JNU-UGC HRDC, New Delhi.		
	Assignments	Growth Factors EGF, IGF, VDGF and Erythropoietin and their signaling pathways	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		Non-radioactive labeled probes: Applications and methods of preparation. Negative and positive selection markers	PGDMB	PGDMB 102 Recombinant DNA technology
	Test	Unit 2. Hormone and hormone receptors Combined test conducted by teachers teaching this course.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		Unit 2. Cloning vectors Combined test conducted by teachers teaching this course.	PGDMB	PGDMB 102 Recombinant DNA technology
NOVEMBER	**Theory:**	Unit 6(contd) Regulation of release of insulin, glucagon, Pathophysiology - diabetes type I and type II.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C7: Hormone Biochemistry and Functions
		Unit 3 (contd): Structure of cilia and flagella. Unit 6 Cell cycle, 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. Phosphoramidite synthesis	PGDMB	PGDMB 102 Recombinant DNA technology
		Revision of the syllabus	B.Sc (Hons) Biological Sciences,II Year, Semester III	SEC 5: Biochemical Techniques
	Practicals:	Revision of practicals, Mock Practical Examination		CBCS C7: Hormone Biochemistry and Functions
		Revision of practicals, Mock Practical Examination		BIST 503: Proteins and Enzymes
		Revision of practicals, Mock Practical Examination		GE7 Biochemical correlation of diseases

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr.Shalini Sen

Department: Biochemistry **Semester :**

I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Involved in ECA admissions. No classes taken. PG Diploma started in August	1.BSc(H) Biochemistry Sem V 2. PG Diploma in Mol and Biochem Technol Sem I	1.GGHT: Genetics and Genomics 2. PGDMB 101: Biophysical Techniques 3.PGDMB 102: Recombinant DNA Technology
	Practicals			
	Tutorials			
AUGUST	Theory:	1.Introduction to Genetics, Mitosis and Meiosis, Principles of inheritance 2.Spectrophotometry, Agarose gel electrophoresis 3. Restriction enzymes, Mapping.	1.BSc(H) Biochemistry Sem V 2. PG Diploma in Mol and Biochem Technol Sem I	1.GGHT: Genetics and Genomics 2. PGDMB 101: Biophysical Techniques 3.PGDMB 102: Recombinant DNA Technology
	Practicals:	1.Standard curve of BSA, Solvent perturbation 2.Sterilization of media, isolated colonies, Growth curve of E.coli	1. PG Diploma in Mol and Biochem Technol Sem I	1. PGDMB 101: Biophysical Techniques 2.PGDMB 102: Recombinant DNA Technology
	Tutorials:			
SEPTEMBER	**Theory:**	1.Chromosomal mutations, Gene mutations 2. Polyacrylamide gel electrophoresis	Same as above	Same as above

		3. DNA modifying enzymes Ligation strategies, cDNA synthesis		
	Practicals:	1.Agarose gel electrophoresis, molecular weight estimation 2. Chromosomal DNA isolation		
	Tutorials:			
	<u>Assignment :</u>	1. PG Diploma: Biophysical techniques 2.RDT		
OCTOBER	**Theory:**	1. Gene mutations contd Extrachromosomal inheritance 2. Plant tissue culture 3. Limitations of cDNA synthesis	Same as above	Same as above
	Practicals:	1. Repeated electrophoresis 2.Digestion of plasmid DNA, Plasmid DNA isolation, gel extraction of DNA		
	Tutorials:			
	<u>Test</u>	1.Midterm Test on 03/10/2016 2.Midterm test on 21/10/2016 3.Midterm test on 17/10/2016		
NOVEMBER	**Theory:**	1.Extrachromosomal inheritance continued. 2.Animal Cell Culture 3. Library screening	Same as above	Same as above
	Practicals:	Repetition of any experiment		
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr.N.Latha Department: BIOCHEMISTRY

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to Immunology	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Introduction to Fatty acid Metabolism	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Biomolecules-Cellular and Chemical Foundations of Life	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals	Introduction to Immunology, Standard Operating Procedures in the lab, Collection of Serum from Blood sample	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Introduction to Bioinformatics & its applications	B.Sc (Hons) Biological Sciences,III Year, Semester V	BIOMATERIALS
AUGUST	**Theory**	Cells & Organs of the Immune System, cells of the immune system; hematopoiesis; HSC, distribution and function(s) of lymphoid and myeloid cells; CD nomenclature; structure and function of primary and secondary lymphoid tissues and organs; Antibody Structure	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Digestion, mobilisation and transport of cholesterol and triacyl glycerols, fatty acid transport to mitochondria, 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	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Lipids : Building blocks of lipids - fatty acids, glycerol, ceramide. Storage lipids - triacyl glycerol,Structural lipids in membranes – glycerophospholipids, galactolipids and sulpholipids,	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals:	Isolation of a IgG antibody using Ion Exchange chromatography. Antibody-antigen reactions in gels-DID, To isolate peripheral blood mononuclear cells (PBMC) from whole blood	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Biological Databases , Retreival of Sequences from NCBI, Structure downloads from PDB, File Formats	B.Sc (Hons) Biological Sciences,III Year, Semester V	BIOMATERIALS

SEPTEMBER	**Theory**	Antibody structure: structure of IgG, IgM, IgA, IgD & IgE;immunoglobulin (Ig) fold and Ig super family; isotype, allotype and idiotype; Receptor diversity: Dreyer- Bennett model for the structure of Ig and its experimental emonstration; organization of Ig genes- kappa, lambda and heavy chain multi-gene families; mechanism of DNA rearrangement and the role of RAG recombinase, Tdt and DNA repair enzymes; immunoglobulin diversification mechanisms.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Fatty acid Biosynthesis, Fatty acid synthase complex. Synthesis of saturated, unsaturated, odd and even chain fattyacids and regulation, Synthesis of membrane phospholipids in prokaryotes and eukaryotes, respiratory distress 16syndrome, biosynthesis of triacylglycerol, biosynthesis of plasmalogens, sphingolipids and glycolipids, lipid storage diseases.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Waxes, Terpenes, Steroids, Eicosanoids, Lipids as signals, cofactors and pigments	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals	DID, SRID and immunoelectrophoresis.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Sequence Alignments-Pairwise Sequence Alignment using BLAST, Multiple Sequence Alignment (CLUSTALW), Protein sequence Analysis & Secondary Structure Prediction Tools	B.Sc (Hons) Biological Sciences,III Year, Semester V	BIOMATERIALS
	Test	Innate and Adaptive Immunity, Cells & Organs of the Immune System, Lymphoid Organs, Antibody Structure and Function	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Fatty acid Metabolism- 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	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Lipids –Structure, fatty acids, glycerol, ceramide. Storage lipids - triacyl glycerol,Structural lipids in membranes – glycerophospholipids, galactolipids and sulpholipids, Steroids, Waxes	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
OCTOBER	**Theory**	Adaptive immunity: salient features; clonal selection theory; collaboration between adaptive and innate immunity, B-cell development: Antigen-independent phase of B-cell development;characteristics of the major stages of maturation & important cell surface changes; B-1 and B-2 cells,	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Synthesis of prostagladins, leukotrienes and thromboxanes. Synthesis of cholesterol, regulation of cholesterol synthesis. Synthesis of steroids and isoprenoids	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C5: Metabolism OF Carbohydrates & Lipids

		Amino acids :Structure and classification, physical, chemical and optical properties of amino acids	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals:	Immunoelectrophoresis (IEP), Rocket IEP, Virtual Dissection of Mice , Spleen Marcophages	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Protein Structure Prediction, Ramachandran Plots, Gene Prediction Tools, Introduction to CADD	B.Sc (Hons) Biological Sciences,III Year, Semester V	BIOMATERIALS
	Assignment	Antibody Diversity, B-cell maturation, Activation & Differentiation, Mucosal Immunity	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Fatty acid Biosynthesis, Fatty acid synthase complex. Synthesis of saturated, unsaturated, odd and even chain fattyacids and regulation, Synthesis of membrane phospholipids in prokaryotes and eukaryotes, respiratory distress 16syndrome, biosynthesis of triacylglycerol, biosynthesis of plasmalogens, sphingolipids and glycolipids, lipid storage diseases.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Amino acids :Structure and classification, physical, chemical and optical properties of amino acids, Unusual Amino acids, Titration Curves	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
NOVEMBER	**Theory:**	Mucosal immune system: organization and distinctive features; lymphocytes populations and their role; mucosal response to infection, regulation of the immune responses; oral tolerance.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Integration of metabolism, Class presentations.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	CBCS C5: Metabolism OF Carbohydrates & Lipids
		Vitamins-Water Soluble & Fat soluble Vitamins, Structure and active forms of water soluble and fat soluble vitamins, deficiency diseases and symptoms, hypervitaminosis	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals:	Revision of practicals, Mock Practical Examination	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Revision of practicals, Mock Practical Examination	B.Sc (Hons) Biological Sciences,III Year, Semester V	BIOMATERIALS

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr.Nandita Narayanasamy Department:

BIOCHEMISTRY Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to Genetics	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501 Genetics and genomics I
		Introduction to Hormone Biochemistry	B.Sc. BIOCHEMISTRY Hons.) III Year, Semester V	BCHT 509 Hormone biochemistry
		Introduction to Hormone Biochemistry	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C7: Hormone biochemistry and function
	Practicals	Introduction to model organisms in Genetics Drosophila as amodel organism	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHP 501 Genetics and genomics I
		Orientation for Practicals in Metabolism	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C-5 Carbohydrate and lipid Metabolism
		Introduction to using a Microscope	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	BCH C-2 Cell biology
AUGUST	**Theory**	Extentions to Mendalian Genetics; Incomplete dominance, Co dominance, Lethal alleles , Multiple alleles. Concept of monogenic and polygenic traits, phenocopy, Peneterance and Variable expressivity. Chromosomal theory of inheritance.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501 Genetics and genomics I
		Hypothalamic and pituitary Axis, Hypothalamicfactors: CRH , TRH, GHRH, GnRH, PIF. Anterior Pituatary hormones: TSH,LH, FSH,GH, ACTH. Posterior Pituatary hormones: Vasopressin and oxytocin. Diabetes Insipidus.	B.Sc. BIOCHEMISTRY Hons.) III Year, Semester V	BCHT 509: Hormone Biochemistry
		Hypothalamic and pituitary Axis, Hypothalamicfactors: CRH , TRH, GHRH, GnRH, PIF. Anterior Pituatary hormones: TSH,LH,FSH,GH, ACTH. Posterior Pituatary hormones: Vasopressin and oxytocin. Diabetes Insipidus.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C 7: Hormone Biochemistry and Function.
	Practicals:	Preparation of Media for maintenance of Drosophila, identification of sex in Drosophila, Cytological identification of Barr body in cheek cells, identification polytene chromosomes in 3rd instar Larva of drosophila. Mendalian inheritance and Chi square analysis.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510- IMMUNOLOGY

		Analysis of salivary Amylase , Aerobic and Anerobic glucose utilization in Bacteria, Sugar fermentation in Bacteria, Starch utilization in bacteria.	B.Sc. BIOCHEMISTRY (Hons.) IIYear, Semester III	BCH C 5 : Metabolism of Carbohydrates and Lipids
		Microscopic visualization of Plant and animal cells, Gram staining in bacteria, Use of vital stain to visualize Mitochondria.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I	BCH C 2: Cell Biology
SEPTEMBER	**Theory**	Gene interactions: Complementation test, additive gene effect, recessive and dominant epistasis, duplicate dominant and recessive epistasis, suppressor and modifier gene. Sex determination: heteromorohic chromosomes , genetic sex determination , temp dependent sex determination. Sex determination in C.elegans, Drosophila and humans. Sex linked , sex influenced and sex limited inheritance. Pedigree Analysis.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501 Genetics and genomics I
		Biochemistry of thyroid hormones: histology thyroid gland, Synthesis of thyroxine, Goitrogens, Mechanism of thyroid hormone, regulation of throxine synthesis, genomic and non genomic action of thyroxine on metabolism, growth and developement and permissive effects. Pathophysiology: Cretinism, Myxedema, Graves disease.	B.Sc. BIOCHEMISTRY Hons.) III Year, Semester V	BCHT 509 : Hormone Biochemistry.
		Biochemistry of thyroid hormones: Synthesis of thyroxine, Goitrogens, Mechanism of thyroid hormone, regulation of throxine synthesis, genomic and non genomic action of thyroxine Pathophysiology.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C7 : Hormone Biochemistry and function.
	Practicals	Isolation of Virgin females in drosophila, learning to transfer Drosophila, Exercises in Epistasis, Pedigree analysis, Creating a Karyogram and analysis of a Karyogram	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHP -501 Genetics and genomics I
		Estimation of glucose by O.toludine method, Isolation of lecithin and cholesterol from egg yolk, Estimation of cholesterol by Zaks method	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C 5: Metabolism of carbohydrates and lipid.
		Isolation of nucleus by differential centrifugation and identification using acetocarmine stain. Isolation of mitochondria by differential centrifugation and identification using Janus green stain, identifying stages of Mitosis.	B.Sc. BIOCHEMISTRY Hons.) I Year, Semester I	BCH C2: Cell Biology
	Test	Mendalian genetics , extensions to mendalian genetics , pedigree analysis	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501: Genetics and Genomics I
	Assignment	Pedigree analysis	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501: Genetics and Genomics I

		Case studies in Endocrinology	B.Sc. BIOCHEMISTRY (Hons.) II Year, Semester III	BCH C 7: hormone Biochemistry and function
OCTOBER	**Theory**	Dosage compensation, Genetic imprinting, Quantitative genetics, Linkage analysis and constructing a Genetic map.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT510-IMMUNOLOGY
		Reproductive hormones , role of hormones in gestation, parturition and lactation, adrenal medullary and cortical hormones; Synthesis, physiological effects and pathophysiology.	B.Sc. BIOCHEMISTRY Hons.) III Year, Semester V	BCHT 509: Hormone biochemistry
		Reproductive hormones , role of hormones in gestation, parturition and lactation, adrenal medullary and cortical hormones; Synthesis, physiological effects and pathophysiology. Hormonal regulation of Calcium Homeostasis.	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C 7: Hormone Biochemistry and function.
	Practicals:	Setting a reciprocal cross with Drosophila wild type and white eye mutants, Analysis of F2 progeny. Karyotyping from cholchicine trated onion root tips, separation of eye pigments of Drosophila.	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHP 501: Genetics and genomics I
		Determination of phospholipid and lecithin content in egg yolk using Fiske Subbarow and choline renikate method. Determination of Glucose 6 Phosphate content in a biological sample using a continuous assay.	B.Sc (Hons) BIOCHEMISTRY ,II Year, Semester III	BCH C 5: Metabolism of carbohydrate and lipid metabolism.
		Microscopic visualization of stages of Meosis in Onion flower bulbs, Dry lab using electron micrograps to identify various cell organelles.	B.Sc. BIOCHEMISTRY (Hons.) I Year, Semester I	BCH C 2: Cell Biology.
	Test	Units 1,2,3,4,5 in Hormone Biochemistry	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT 509: Hormone Biochemistry
		Cell Signalling, Hypothalmic and pituitary hormones, Posterior pituitary hormones, hormones in calcium homeostasis	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH C7: Hormone Biochemistry and function.
NOVEMBER	**Theory:**	Class discussions and revision	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHT 501: Genetics and genomics I
		Hormonal regulation of growth class discussions.	B.Sc. BIOCHEMISTRY Hons.) III Year, Semester V	BCHT 509: Hormone Biochemistry
		Hormonal regulation of growth class discussions	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester IIII	BCH C7: Hormone Biochemistry and Function

	Practicals:	Mock Practical Examination and final pratical examination	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	GGHP 501: Genetics and genomics I
		Mock Practical Examination and final pratical examination	B.Sc (Hons) BIOCHEMISTRY,II Year, Semester III	BCH C 5: Metabolism of carbohydrates and Lipids
		Mock Practical Examination and final pratical examination	B.Sc (Hons) BIOCHEMISTRY ,I Year, Semester I	BCH C2 : Cell Biology

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Anju Kaicker

Department: Biochemistry **Semester :**

I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Overview of the immune system Importance of Signaling Pathways		1 : 249505 2 : 249503
	Practicals			
	Tutorials			
AUGUST	**Theory:**	1. Immunogenicity & Antigenicity, Factors that effect antigenicity, Epitopes, Hapten- Carrier complex, Innate immunity & adaptive immunity, Receptors of innate system, Inflammation 2. GPCR, PKA, PKG, Toxins & their effect on their pathways, Steroid hormone receptors		1 : 249505 2 : 249503
	Practicals:	1. Estimation of Glucose in serum 2. Glucose Tolerance Test 3. Estimation of Calcium in serum samples		
	Tutorials:			
SEPTEMBER	**Theory:**	1. Toll like Receptors, Signaling using this pathway, Complement system and its regulation. MHC : Structure and function, Antigen processing pathways. 2. NRTs, Jak STAT pathway, phosphoinositide pathway, PI 3 kinase, Regulation of pathways and their convergence & divergence		1: 249505 2.: 249503

	Practicals:	1. Estimation of TSH in serum 2. Estimation of T4 in serum 3. Estimation of Lipid profile in serum		
	Tutorials:			
	Assignment :	Assignements given to the students		
OCTOBER	**Theory:**	1. TCR and structure of various accessory molecules, Generation of mature T cells, CTL response, NK cells 2. Regulation of calcium in bones, Vitamin D, parathormone, Calcitonin		1 : 249505 2 : 249503
	Practicals:	1. Estimation of estradiol in serum 2. Revision of practicals		
	Tutorials:			
	Test	Mid term Examination		
NOVEMBER	**Theory:**	Revision of the various topics		
	Practicals:	Mock practical and Final exams		
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. NITIKA KAUSHAL

Department: BIOCHEMISTRY

Semester: I/III/V (2016-17)

Month		Topics	Course	Paper Code/Name
July	**Theory**	**Unit 1**: Prokaryotic (archaea and eubacteria) and eukaryotic cell (animal and plant cells)	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		NO ADMISSIONS	B.Sc. (H) Sem. III	BCH GE-7: Biochemical Correlations in Diseases
		NO ADMISSIONS	PGDMB	PGDMB-103/ Immunology I
		Introduction to GI tract	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Practical	Introduction to microscope	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		NO ADMISSIONS	B. Sc (H) I Yr Sem I	BCH GE-2: Proteins and Enzymes
		Introduction to clinical biochemistry	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
August	**Theory**	**Unit 1**: cells as experimental models **Unit 3**: Structure of nuclear envelope, nuclear pore complex. Nuclear protein import and export, SStructure and functions of mitochondria, chloroplasts and peroxisomes.	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Unit 1 Inborn errors of metabolism: Alkaptonuria, Phenylketonuria, SCID and Clotting disorders.	B.Sc. (H) Sem. III	BCH GE-7: Biochemical Correlations in Diseases
		Overview of the immune system	PGDMB	PGDMB-103/ Immunology I

		GI tract hormones	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Practical	Visualization of animal and plant cell by methylene blue. Visualization of animal and plant cell by safranin. Gram staining Visualization of nuclear fraction by aceocarmine	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Protein estimation by UV absorbance method Protein estimation by Biuret method	B. Sc (H) I Yr Sem I	BCH GE-2: Proteins and Enzymes
		Glucose estimation by GOD/POD method Glucose Tolerance Test Estimation of Total Cholesterol Estimation of HDL	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
<u>September</u>	**Theory**	**Unit 5 Cell wall and extracellular matrix**: Prokaryotic and eukaryotic cell wall, cell matrix proteins. Cell-matrix interactions and cell-cell interactions. Adherence junctions, desmosomes, hemidesmosomes, focal adhesions.	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Unit 1 Inborn errors of metabolism: Glycogen and Lipid storage diseases **Unit 7 Infectious disease**: Viral infection (polio, measles, mumps, influenza, HIV)	B.Sc. (H) Sem. III	BCH GE-7: Biochemical Correlations in Diseases
		Overview of the immune system: toll like receptors **Organization of the immune system**	PGDMB	PGDMB-103/ Immunology I
		GI Tact hormones: CCK, GIP, Ghrelin	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Practical	Sub cellular fractionation Acetocarmine staining of nuclear fraction Janus Green B staining of mitochondrial fraction	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Protein estimation by Lowry method. Setting up assay for acid phosphatase activity	B. Sc (H) I Yr Sem I	BCH GE-2: Proteins and Enzymes
		Estimation of TAGs Estimation of TSH Estimation of T4	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	<u>Test</u>	Unit 1 and 3	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
	<u>Assignment</u>	Nuclear, Mitochondrial and Peroxisomal diseases	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology

		Stem Cells: properties, types, examples and applications	PGDMB	PGDMB-103/ Immunology I
October	**Theory**	**Unit 5 Cell wall and extracellular matrix**: Tight junctions, gap junctions and plasmodesmata. **Unit 6 Cell cycle, cell death and cell renewal**: Eukaryotic cell cycle, restriction point, and checkpoints. Cell division. Salient features of a transformed cell.	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Unit 7 Infectious disease: Malaria, Trypanosomiasis **Unit 5 Autoimmune diseases**: Concepts in immune recognition - self and non self discrimination, organ specific autoimmune diseases – Hashimoto's thyroiditis, Grave's disease, Myasthenia Gravis;. Systemic diseases - SLE, rheumatoid arthritis; Diabetes Mellitus-I. **Unit 3 Life style diseases**: Obesity and Cardiovascular diseases.	B.Sc. (H) Sem. III	BCH GE-7: Biochemical Correlations in Diseases
		Generation of antibody diversity: multi gene organization of immunoglobulin genes, mechanism of gene rearrangement **The response of B cells to antigen**: B cell maturation, activation and proliferation	PGDMB	PGDMB-103/ Immunology I
		Pancreatic Hormones: Insulin, Glucagon, Diabetes type I & II	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Practicals	Meiosis in onion flower bud Study of cell organelles using electron micrographs	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Activity measurements of acid phosphatase (progress curve and effect of pH). Determination of Km and Vmax of enzyme enriched fraction. Inhibition of acid phosphatase activity by inorganic phosphate.	B. Sc (H) I Yr Sem I	BCH GE-2: Proteins and Enzymes
		Estrogen estimation	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Test	Viral and Parasitic diseases	B.Sc. (H) Sem. III	CBCS GE-7: Biochemical Correlations in Diseases
		Cells and Organs of the immune system	PGDMB	PGDMB-103/ Immunology I
	Assignment	Vaccines, National Immunization Program	B.Sc. (H) Sem. III	CBCS GE-7: Biochemical Correlations in Diseases

November	**Theory**	Revision	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Unit 3 Life style diseases: Atherosclerosis, Diabetes mellitus-II. Inflammatory Bowel Disease (IBD).	B.Sc. (H) Sem. III	CBCS GE-7: Biochemical Correlations in Diseases
		The response of B cells to antigen: Signaling pathways leading to B cell activation, germinal centers and formation of plasma cells, memory cells, class switching	PGDMB	PGDMB-103/ Immunology I
		Unit 13 Other organs with endocrine function: Adipose tissue (Leptin, adiponectin). Pathophysiology of Obesity	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry
	Practical	Mock practical and Practical Examination	B.Sc. Biochemistry (H) I Yr, Sem I	BCH C-2: Cell Biology
		Mock practical and Practical Examination	B. Sc (H) I Yr Sem I	CBCS GE-2: Proteins and Enzymes
		Mock practical and Practical Examination	B.Sc. Biochemistry (H) III Yr, Sem V	BCHT 509: Hormone Biochemistry

SEMERSTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Semester I/III/V

Name of the Faculty: Dr Meenakshi Kuhar **Department: Biochemistry**

Month		Topics	Course	Paper Code/Name
		Unit 2: Introduction to Biomembranes	B Sc (H) Biochemistry III Year Semester V	BCHT 508 Membrane Biology
July	Theory	Unit 6: Introduction to Bioenergetics	B Sc (H) Biochemistry II Year Semester III	CBCS C-6: Membrane Biology and Bioenergetics
		Introduction to Protein Purification Preparation of sample	B Sc (H) Biochemistry II Year Semester III	CBCS SEC-2: Protein Purification Techniques
		Unit 2: Introduction to proteins and Enzymes	B.Sc (H) Biological Sciences, II Year Semester III	CBCS C-5: Proteins and Enzymes
	Practicals	Exercise1: Safety measures in Laboratory	B Sc (H) Biochemistry I Year Semester I	CBCS C-1: Molecules of Life
		Exercise1: Verification of Beer's law	B.Sc (H)Biological Sciences, II Year Semester III	CBCS SEC-5: Biochemical Techniques

SEMERSTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Semester I/III/V

Month		Topics	Course	Paper Code/Name
		Unit 2: Composition of Biomembranes: Lipids, proteins and carbohydrates. Composition variation between various Biomembranes	B Sc (H) Biochemistry III Year Semester V	BCHT 508 Membrane Biology
August	Theory	Unit 6: Introduction to Bioenergetics Unit 7: Oxidative Phosphorylation	B Sc (H) Biochemistry II Year Semester III	CBCS C-6: Membrane Biology and Bioenergetics
		Introduction to Chromatographic Techniques Ion Exchange Chromatography	B Sc (H) Biochemistry II Year Semester III	CBCS SEC-2: Protein Purification Techniques
		Unit 2: Proteins: Classification of proteins, Amino acids building blocks Structure of proteins: Primary, secondary,	B.Sc (H)Biological Sciences, II Year Semester III	CBCS C-5: Proteins and Enzymes

Name of the Faculty: Dr Meenakshi Kuhar **Department: Biochemistry**

		tertiary and quaternary		
	Practicals	Exercise 2: Preparation of solutions Exercise 3: Preparation of Buffers	B Sc (H) Biochemistry I Year Semester I	CBCS C-1: Molecules of Life
		Exercise2: Protein estimation by Biuret method Exercise3: Protein estimation by Lowry method	B.Sc (H)Biological Sciences, II Year Semester III	CBCS SEC-5: Biochemical Techniques

SEMERSTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Semester I/III/V

Name of the Faculty: Dr Meenakshi Kuhar **Department: Biochemistry**

Month		Topics	Course	Paper Code/Name
		Unit 2: Membrane proteins Classification and topology	B Sc (H) Biochemistry III Year Semester V	BCHT 508 Membrane Biology
September	Theory	Unit 7: Oxidative Phosphorylation	B Sc (H) Biochemistry II Year Semester III	CBCS C-6: Membrane Biology and Bioenergetics
		Affinity Chromatography Gel Filteration Chromatography	B Sc (H) Biochemistry II Year Semester III	CBCS SEC-2: Protein Purification Techniques
		Unit 2: Proteins: Structure of Myoglobin and Hemoglobin, Molecular physiology of Myoglobin and Hemoglobin, Bohr effect	B.Sc (H)Biological Sciences, II Year Semester III	CBCS C-5: Proteins and Enzymes
	Practicals	Exercise 4: Determination of pKa of acetic acid and Glycine Exercise 5: Qualitative tests for Biomolecules	B Sc (H) Biochemistry I Year Semester I	CBCS C-1: Molecules of Life
		Exercise 3: Separation of amino acids by TLC Exercise 4:Ion exchange/Gel filteration chromatography	B.Sc (H)Biological Sciences, II Year Semester III	CBCS SEC-5: Biochemical Techniques

SEMERSTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Semester I/III/V

Name of the Faculty: Dr Meenakshi Kuhar **Department: Biochemistry**

Month		Topics	Course	Paper Code/Name
		Unit 2: Study of topology of membrane proteins, Hydropathy plots	B Sc (H) Biochemistry III Year Semester V	BCHT 508 Membrane Biology
October	Theory	Unit 8: Photophosphorylation	B Sc (H) Biochemistry II Year Semester III	CBCS C-6: Membrane Biology and Bioenergetics
		Electrophoresis	B Sc (H) Biochemistry II Year Semester III	CBCS SEC-2: Protein Purification Techniques
		Unit 3: Enzymes: Classification, Kinetics of enzyme catalyzed reactions, Enzyme inhibition, catalytic mechanisms	B.Sc (H)Biological Sciences, II Year Semester III	CBCS C-5: Proteins and Enzymes
	Practicals	Exercise 6: Separation by amino acids and sugars on TLC Exercise 7: Estimation of vitamin C	B Sc (H) Biochemistry I Year Semester I	CBCS C-1: Molecules of Life
		Exercise 5: Agarose gel Electrophoresis Exercise 6: Paper Electrophoresis Exercise 7: Isolation of mitochondria	B.Sc (H)Biological Sciences, II Year Semester III	CBCS SEC-5: Biochemical Techniques

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Semester I/III/V

Name of the Faculty: Dr Meenakshi Kuhar **Department: Biochemistry**

Month		Topics	Course	Paper Code/Name
		Class Test	B Sc (H) Biochemistry III Year Semester V	BCHT 508 Membrane Biology
November	Theory	Unit 8: Photophosphorylation	B Sc (H) Biochemistry II Year Semester III	CBCS C-6: Membrane Biology and Bioenergetics
		HPLC	B Sc (H) Biochemistry II Year Semester III	CBCS SEC-2: Protein Purification Techniques
		Unit 3: Enzymes: Regulation of enzyme activity, allosteric enzymes	B.Sc (H)Biological Sciences, II Year Semester III	CBCS C-5: Proteins and Enzymes
	Practicals	Mock practicals	B Sc (H) Biochemistry I Year Semester I	CBCS C-1: Molecules of Life
		Mock practicals	B.Sc (H)Biological Sciences, II Year Semester III	CBCS SEC-5: Biochemical Techniques

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

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

BIOCHEMISTRY **Semester: I/III/V, PG Diploma Semester I**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Unit 7: Membrane Transport** - Study of different transport systems; their structure, thermodynamics (free energy change involved, electro chemical potential, membrane potential, Nerst equation)	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCHT508: MEMBRANE BIOLOGY
		Unit 2: Water - Unique properties, weak interactions in aqueous systems, ionization of water, buffers	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	CBCS C1: Molecules of Life
	Practicals	1. Determination of Critical Micelle Concentration (CMC) of SDS by conductivity meter	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCHT508: MEMBRANE 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
AUGUST	**Theory**	**Unit 7: Membrane Transport** (Contd.) Kinetics regulators, Inhibitors / blockers biochemical, function and significance. Simple diffusion, Facilitated diffusion: Passive transport (Glucose transporter, anion transporter); Active transport (P type ATPases V type ATPases, F type ATPases , Na+ / H+ symport systems). ABC family of transporters (MDR ATPase family, CFTR). Transport processes driven by light (Bacteriorhodopsin, halorhodopsin), Group translocation. Specialized membrane Pores: Porins in Gram – ve bacterial membranes (*E.coli* OmpF, OmpC, LamB), Pore forming toxins (colicins, α hemolysin, anthrax toxin protective antigen) and Aquaporins.	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCHT508: MEMBRANE BIOLOGY
		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	CBCS C1: Molecules of Life

		Unit 2: Nutritional deficiency based diseases Kwashiorkar, Marasmus, Beri-beri, Scurvy, Pellagra, Anaemia, Night blindedness	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III	BCH GE-7: Biochemical Correlations in Diseases
	Practicals:	1. Determination of CMC of Triton X100 and SDS using PAN dye 2. Effect of lipid composition on membrane permeability	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCHT508-MEMBRANE 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. Preparation and sterilization of LB medium. 2. Obtaining isolated colonies of *E.coli* by streak plate and spread plate method. 3. Serial Dilution and calculation of viable bacterial counts	PGD-MB Semester 1	RDT-1
	Assignment	Derivation of Aldose and Ketose series of monosaccharides by Kiliani Fischer Synthesis	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	CBCS C1: Molecules of Life
SEPTEMBER	**Theory**	**Unit 7: Membrane Transport** (Contd) Ion channels : Voltage gated ion channels (Na+ / K+ voltage gated ion channel) , Ligand gated ion channels (Acetyl choline / IP3 / cGMP gated ion channel) , Leaky channels. Role of ion channels in nerve transmission & action potential propagation. Neurotransmitters : Acetyl choline, glutamate, & glycine (Metabolism ,& signaling with type of receptors). Ionophores : Carriers and channel forming (valinomycin , gramicidin).	B.Sc. BIOCHEMISTRY (Hons) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY

		Unit 3: Carbohydrate & Glycobiology (Contd) Formation of disaccharides, reducing and non-reducing disaccharides, Polysaccharides – homo- and heteropolysaccharides, structural and storage polysaccharides. **Unit 6: Nucleic Acids** - Nucleotides - structure and properties. Nucleic acid structure – Watson-Crick model of DNA. Structure of major species of RNA - mRNA, tRNA and rRNA. Nucleic acid chemistry - UV absorption, effect of acid and alkali on DNA. Other functions of nucleotides - source of energy, component of coenzymes, second	B.Sc. BIOCHEMISTRY (Hons) I Year, Semester I	CBCS C1: Molecules of Life
		Unit 2: Nutritional deficiency based diseases (Contd) - Rickets, Osteomalacia, Osteoporosis, Wilson's disease. **Unit 7: Infectious Diseases**- Bacterial infections - Tetanus, diphtheria, tuberculosis, typhoid, cholera	B.Sc. BIOCHEMISTRY (Hons) II Year, Semester III	BCH GE-7: Biochemical Correlations in Diseases
	Practicals	1. RBC ghost cell preparation and separation of proteins by SDS PAGE 2. Effect of detergents on Erythrocytes 3. Intestinal mobility of Histidine	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY
		1.Affinity Chromatography 2. SDS PAGE Electrophoresis 3. Practical Exam as a part of Continuous Evaluation (Calculation of Specific Activity of Mung Bean Acid Phosphatase)	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC:2 Protein Purification Techniques
		1. Isolation of chromosomal DNA of *E.coli* 2. Calculation of Molecular weight of DNA by Restriction digestion and Agarose gel electrophoresis 3. Isolation of plasmid DNA by alkaline lysis method	PGDMB Semester 1	RDT-1
	Assignments	Mechanism of action of transport inhibitors, blockers	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY
OCTOBER	**Theory and Practicals**	On duty leave wef October 1 to 28, 2016 for attending 8th Orientation programme at HRDC, JNU, New Delhi		
	TESTS:	Combined Tests will be conducted by the other faculty teaching the same paper For Test Unit 7: Membrane Transport	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY
		Combined Tests will be conducted by the other faculty teaching the same paper For Test Unit 3: Carbohydrates	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	CBCS C1: Molecules of Life

		Combined Tests will be conducted by the other faculty teaching the same paper For Test Unit 7 (Bacterial Infections)	B.Sc. BIOCHEMISTRY Hons.) II Year, Semester III	BCH GE-7: Biochemical Correlations in Diseases
NOVEMBER	**Theory:**	Structure of Voltage gated Channels	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY
		Unit 3: Carbohydrate and Glycobiology (Contd)- Structure and role of proteoglycans, glycoproteins and glycolipids (Gangliosides and lipopolysaccharides). Carbohydrates as informational molecules, working with carbohydrates **Unit 7: Vitamins**	B.Sc. BIOCHEMISTRY Hons) I Year, Semester I	CBCS C1: Molecules of Life
		Unit 7 (Contd.): Vaccines against diseases. General strategies in the design and development of vaccines.	B.Sc. BIOCHEMISTRY Hons) II Year, Semester III	BCH GE-7: Biochemical Correlations in Diseases
	Practicals:	1. Revision 2. Mock Practical Exam	B.Sc. BIOCHEMISTRY (Hons.) III Year, Semester V	BCHT508-MEMBRANE BIOLOGY
		1. Demonstration for HPLC 2. Revision and Mock Practical Exam	B.Sc (Hons) Biochemistry, II Year, Semester III	BCH SEC:2 Protein Purification Techniques
		1. Revision 2. Mock Practical Exam	PGDMB Semester 1	RDT-1

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Neeru Kumar

Department: Electronics **Semester:I/III/V/VII**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**SEMESTER V** Introduction to Analog communication. Various types of Modulation	B.Sc Electronics	**SEMESTER V** Analog Communication ELHT-502
		SEMESTER III Number System and Codes: Decimal, Binary, Hexadecimal and Octal number systems, base conversions, Binary, octal and hexadecimal arithmetic (addition, subtraction by complement method, multiplication), representation of signed and unsigned numbers, Binary Coded Decimal code	B.Sc Electronics	**SEMESTER III** Digital Electronics and VHDL CORE COURSE-VI
	Practicals	**SEMESTER III** 1. To verify and design AND, OR, NOT and XOR gates using NAND gates.	B.Sc Electronics	**SEMESTER III** Digital Electronics and VHDL Lab
		SEMESTERVII To study the I-V characteristics of DIAC	B.Tech Electronics	**SEMESTER VII** Power Electronics Lab
	Tutorials	N.A.		
AUGUST	**Theory:**	**SEMESTER V** Amplitude modulation: modulation index, frequency spectrum, generation of AM (balanced modulator, collector modulator), Amplitude Demodulation (diode detector Other forms of AM: Double side band suppressed carrier, DSBSC generation (balanced modulator), Single side band suppressed carrier, SSBSC generation (filter method, phase cancellation method, third method), SSB detection, Introduction to other forms of AM(Pilot Carrier Modulation, Vestigial Side Band modulation, Independent Side Band Modulation).	B.Sc Electronics	**SEMESTER V** Analog Communication ELHT-502
		SEMESTER III Logic Gates and Boolean algebra: Introduction to Boolean Algebra and Boolean operators, Truth Tables of OR, AND, NOT, Basic postulates	B.Sc Electronics	**SEMESTER III** Digital Electronics and VHDL CORE COURSE-VI

		and fundamental theorems of Boolean algebra, Truth tables, construction and symbolic representation of XOR, XNOR, Universal (NOR and NAND) gates. Combinational Logic Analysis and Design: Standard representation of logic functions (SOP and POS), Karnaugh map minimization, Encoder and Decoder, Multiplexers and Demultiplexers, Implementing logic functions with multiplexer, binary Adder, binary subtractor, parallel adder/subtractor.		
	Practicals:	**SEMESTER III** 1. To convert a Boolean expression into logic gate circuit and assemble it using logic gate IC's. 2. Design a Half and Full Adder **SEMESTERVII** 1.To study the I-V characteristics of a TRIAC 2. To study the I-V characteristics of a SCR	B.Sc Electronics B.Tech Electronics	**SEMESTER III** Digital Electronics and VHDL lab **SEMESTER VII** Power Electronics Lab
	Tutorials:	N.A.		
SEPTEMBER	**Theory:**	**SEMESTER V** Angle modulation: Frequency and Phase modulation, modulation index and frequency spectrum, equivalence between FM and PM, Generation of FM (direct and indirect methods), FM detector (slope detector, balanced slope detector, PLL). Comparison between AM, FM and PM. **SEMESTER III** Sequential logic design: Latches and Flip flops , S-R Flip flop, J-K Flip flop, T and D type Flip flop, Clocked and edge triggered Flip flops, master slave flip flop	B.Sc Electronics B.Sc Electronics	**SEMESTER V** Analog Communication ELHT-502 **SEMESTER III** Digital Electronics and VHDL CORE COURSE-VI

	Practicals:	**SEMESTER III** 1. Design a Half and Full Subtractor. 2. Design a seven segment display driver. 3. Design a 4 X 1 Multiplexer using gates. **SEMESTERVII** DC motor control using SCR.	B.Sc Electronics B.Tech Electronics	**SEMESTER III** Digital Electronics and VHDL Lab **SEMESTER VII** Power Electronics Lab
	Tutorials:	N.A.		
	Assignment :	.		
OCTOBER	**Theory:**	**SEMESTER V** Transmitters: Communication channels for AM and FM broadcast, AM transmitter: Low level and high level modulation, FM transmitter Receivers: Receiver parameters: sensitivity, selectivity and fidelity, Super Heterodyne Receiver, Double Conversion Receiver. AM receivers, FM receivers. Frequency Division Multiplexing. **SEMESTER III** Registers, Counters (synchronous and asynchronous and modulo-N), State Table, State Diagrams, counter design using excitation table and equations. , Ring counter and Johnson counter. Programmable Logic Devices: Basic concepts- ROM, PLA, PAL, CPLD, FPGA	B.Sc Electronics B.Sc Electronics	**SEMESTER V** Analog Communication ELHT-502 **SEMESTER III** Digital Electronics and VHDL CORE COURSE-VI
	Practicals:	**SEMESTER III** 1.To build a Flip- Flop Circuits using elementary gates. (RS, Clocked RS, D-type). 2. Design a counter using D/T/JK Flip-Flop. 3. Design a shift register and study Serial and parallel shifting of data **SEMESTERVII** 1.SCR as a half wave and full wave rectifiers. 2.To study parallel and bridge inverter.	B.Sc Electronics B.Tech Electronics	**SEMESTER III** Digital Electronics and VHDL Lab **SEMESTER VII** Power Electronics Lab

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Dr. J. Lalita **Department: Electronics**

Semester : VII (2016-2017)

Course : B.Tech(Electronics)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Power diodes	B.Tech	EL-701 / Power Electronics
AUGUST	**Theory:**	Enhancement of reverse blocking capacity, reverse recovery silicon controlled rectifier (SCR) structure, I-V characteristics, turn ON an turn OFF characteristics, ratings, control circuits design and protection circuits.	B.Tech	EL-701 / Power Electronics
SEPTEMBER	**Theory:**	Application of SCR: SCR as a static as switch phase controlled rectification, half wave full wave and bridge rectifiers with inductive non-inductive loads; Analysis for a single phase supply	B.Tech	EL-701 / Power Electronics

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Dr J Lalita **Department: Electronics**

Semester : III (2016-2017)

Course : B.Sc (Electronics)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction, Importance of C	B.Sc(Hons), Electronic Science / CBCS	**C Programming and Data Structures**
	Practicals	Introduction to Programming		**C Programming and Data Structures**
AUGUST	**Theory:**	Character set, Tokens, keywords, identifier, constants, basic data types, variables: declaration & assigning values. Structure of C program Arithmetic operators, relational operators, logical operators, assignment operators, increment and decrement operators, conditional operators, bit wise operators, expressions and evaluation of expressions, type cast operator, implicit conversions, precedence of operators. Arrays-concepts, declaration, accessing elements, storing elements, two-dimensional and multi-dimensional arrays. Input output statement and library functions (math and string related functions).	B.Sc(Hons), Electronic Science / CBCS	**C Programming and Data Structures**

	Practicals:	1. Generate the Fibonacci series up to the given limit N and also print the number of elements in the series. 2. Find minimum and maximum of N numbers. 3. Find the GCD of two integer numbers. 4. Calculate factorial of a given number. 5. Find all the roots of a quadratic equation Ax2 + Bx + C = 0 for non – zero coefficients A, B and C. Else report error. 6. Calculate the value of sin (x) and cos (x) using the series. Also print sin (x) and cos (x) value using library function. 7. Generate and print prime numbers up to an integer N.		**C Programming and Data Structures**
SEPTEMBER	**Theory:**	**Decision making, branching & looping:** Decision making, branching and looping: if, if-else, else-if, switch statement, break, for loop, while loop and do loop. Functions: Defining functions, function arguments and passing, returning values from functions. **Structures:** defining and declaring a structure variables, accessing structure members, initializing a structure, copying and comparing structure variables, array of structures, arrays within structures, structures within structures, structures and functions. Pointers.	B.Sc(Hons), Electronic Science / CBCS	**C Programming and Data Structures**

Practicals:	Sort given N numbers in ascending order. 9. Find the sum & difference of two matrices of order MxN and PxQ. 10. Find the product of two matrices of order MxN and PxQ. 11. Find the transpose of given MxN matrix. 12. Find the sum of principle and secondary diagonal elements of the given MxN matrix. 13. Calculate the subject wise and student wise totals and store them as a part of the structure.		**C Programming and Data Structures**
Assignment :	Done		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Dr Nutan Kala Joshi

Department: ELECTRONICS **Semester :V**

and Semester I

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit 2 Electromagnetic Wave Propagation:Maxwell's Equations,Time Harmonic Fields,Waves in General	B Sc (Hons) Electronics	ELHT-504 Wave Propagation and Antennas
	Practicals	1.Experiments Based on Modulation and Bridges for ELHP506 2.Matlab-based Practicals for Mathematical Foundation of Electronics	B Sc (Hons) Electronics B Sc (Hons)Electronic Science	1.ELHP-506 Electronics Practicals-X Based on ELHI-502 , ELHI-503 2.B Sc Electronic Science I Year: Mathematics Foundation of Electronics
	Tutorials	Based on Theory Paper EL 504		
AUGUST	**Theory:**	Unit 2 contd. :Wave propagation in Dielectrics,Good Conductors,Dispersion,Loss y Media,Unit 3:Reflection of Plane Waves,Waveguide	Same as above	Same as above
	Practicals:	1.Experiments Based on Modulation,Bridges,Solar Cell For ELHP 506 2. Matlab based Practicals for Mathematics Foundation of Electronics	Same as above	Same as above
	Tutorials:	Based on Theory Paper EL 504		
SEPTEMBER	**Theory:**	Unit 3contd. Modes, Resonators,Dielectric Waveguides Unit 4:Antennas:Hertzian,Half	Same as above	Same as above
		-wave,Quarter-wave,Small Loop,Antenna Arrays		

	Practicals:	1.Experiments based on Modulation,Bridges, Solar Cell for (ELHP506) 2. Matlab based Practicals	Same as above	Same as above
	Tutorials:	Based on Theory Paper EL504		
	Assignment :	Based on Course covered		
OCTOBER	**Theory:**	Unit 4:Radar, Friis Eqn , Transmission Lines:Types,Importance, Advantages,Line Parameters	Same as above	Same as above
	Practicals:	Experiments based on Modulation, Bridges, Solar Cell,Transmitter and Receiver and Thermocouple	Same as above	Same as above
	Tutorials:	Based on TheoryPaper EL 504		
	Test			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Sunita Jain

Department: Electronics **Semester: VII**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Concept of plane & spherical waves, interaction of em wave with dielectrics	B.Tech Electronics	Photonics
	Practicals	Groups formed & practicals alloted.		
	Tutorials	N.A.		
AUGUST	**Theory:**	Dispersion, Interference, Young double slit, Newton ring, thin film & Michelson interferometer .Introduction to Diffraction, Diffraction due to single slit, double slit, and diffraction grating. Resolving power of various equipments.		
	Practicals:	All practicals were allotted to different groups.		,
	Tutorials:	N.A.		
SEPTEMBER	**Theory:**	Polarization, Brewster law, Malus law, Production and analysis of polarized light. opto-electronic devices: LED, photodiode,CCD,etc. Lasers introduction, structure and their function.		

	Practicals:	All practicals allotted.		
	Tutorials:	N.A.		
	<u>Assignment :</u>	Questions based on Interference and Diffraction are given.		
OCTOBER	**Theory:**	Holography, Dielectric waveguides, Optical fibre and various modes of propagation.		
	Practicals:	All practicals to be completed		
	Tutorials:	N.A.		
	<u>Test</u>			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty : Mr. Hari Singh
Department : Electronics

Semester: Theory : B.Sc(H) Electronics, Sem I

Practical : B.Sc(H) Electronics, Sem I

Month		Topics	Course	Paper
JULY	**Theory**	**Basic Circuit Concepts:** Voltage and Current Sources, Resistors: Fixed and Variable resistors, Construction and Characteristics, Color coding of Resistors, Resistors in Series and Parallel.	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis
	Practicals	Familiarization with a) Resistance in series, parallel and series – Parallel. b) Capacitors & Inductors in series & Parallel. c) Multimeter – Checking of components. d) Voltage sources in series, parallel and series –	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis Lab
AUGUST	**Theory:**	**Basic Circuit Concepts:** Inductors: Fixed and Variable inductors, Self and mutual inductance, Faraday's law and Lenz's law of electromagnetic induction, Energy stored in an inductor, Inductance in series and parallel, Testing of resistance and inductance using Multimeter. Capacitors: Principles of capacitance, Parallel plate capacitor, Permittivity, Definition of Dielectric Constant, Dielectric strength, Energy stored in a capacitor, Air, Paper, Mica, Teflon, Ceramic, Plastic and Electrolytic capacitor, Construction and application, capacitors in series and parallel, factors governing the value of capacitors, testing of capacitors using multimeter. Dielectric Constant, Dielectric strength, Energy	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis
	Practicals:	Verification of Kirchoff's Law. Verification of Norton's theorem. Verification of Thevenin's Theorem	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis Lab
SEPTEMBER	**Theory:**	Circuit Analysis: Kirchhoff's Current Law (KCL), Kirchhoff's Voltage Law (KVL), Node Analysis, Mesh Analysis, Star-Delta Conversion Network Theorems: Principal of Duality, Superposition Theorem, Thevenin's Theorem, Norton's Theorem, Reciprocity Theorem,	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis
	Practicals:	Verification of Superposition Theorem. Verification of the Maximum Power Transfer Theorem. Measurement of Amplitude, Frequency & Phase difference using CRO.	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis Lab
	Assignment :			

OCTOBER	**Theory:**	Two Port Networks: Impedance (Z) Parameters, Admittance (Y) Parameters, Transmission (ABCD) Parameters. AC Circuit Analysis: Sinusoidal Voltage and Current, Definition of Instantaneous, Peak, Peak to Peak, Root Mean Square and Average Values. Voltage-Current relationship in Resistor, Inductor and Capacitor, Phasor, Complex Impedance, Power in AC Circuits: Instantaneous Power, Average Power, Reactive Power, Power Factor. Sinusoidal Circuit Analysis for RL, RC and RLC Circuits. Resonance in Series and Parallel RLC	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis
	Practicals:	RC Circuits: Time Constant, Differentiator, Integrator. Designing of a Low Pass RC Filter and study of its Frequency Response. Designing of a High Pass RC Filter and study of	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis Lab
	Test			
NOVEMBER	**Theory:**	DC Transient Analysis: RC Circuit- Charging and discharging with initial charge, RL Circuit with Initial Current, Time Constant, RL and RC Circuits With Sources, DC Response of Series RLC Circuits.	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis
	Practicals:	Study of the Frequency Response of a Series LCR Circuit and determination of its (a) Resonant Frequency (b) Impedance at Resonance (c) Quality Factor Q (d) Band Width	B.Sc. (H) Electronics Sem I	Core Course I/ Basic Circuit Theory and Network Analysis Lab

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Ms Shubhra Gupta

Department: Electronics

Semester: Theory : BSc(Hons) Electronics Semester III
BTech Electronics Semester V

Practicals : BSc(Hons) Electronics Semester III
BSc(Hons) Electronics Semester V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Sem V :** Introduction to microprocessor 8086, Internal Architecture, real mode memory addressing. **Sem III :**Introduction to VHDL	BSc Electronics	ELHT-501 : Microprocessors and Microcontrollers CC – VI : Digital Electronics and VHDL
	Practicals	**Sem V :** Demonstration of 8086 kits. **Sem III :**	BSc Electronics	ELHP-505 : Electronics Practicals IX CC V Lab : Electronics Circuits
	Tutorials			
AUGUST	**Theory:**	**Sem V :** Addressing modes, Programming 8086 (Instruction set) Internal Architecture(contd.) **Sem III :** Introduction to VHDL(contd)	BSc Electronics	ELHT-501 : Microprocessors and Microcontroller CC – VI : Digital Electronics and VHDL
	Practicals:	**Sem V :** Addressing modes 8 bit and 16 bit Addition/Substraction/ Multiplication/division **Sem III :**	BSc Electronics	ELHP-505 : Electronics Practicals IX CC V Lab : Electronics Circuits
	Tutorials:			
SEPTEMBER	**Theory:**	**Sem V :** Introduction to interrupts,Interrupt processing,interrupt flag bit,hardware interrupt,expanding interrupt structure	BSc Electronics	ELHT-501 : Microprocessors and Microcontroller CC – VI : Digital Electronics and VHDL

		Interrupt , Expanding interrupt,8259 , 8255 , 8253 **Sem III :**Behavioral modelling		
	Practicals:	**Sem V :** Programs for Swapping, square root , Fibonacci series , factorial , prime number , sorting. **Sem III :**	BSc Electronics	ELHP-505 : Electronics Practicals IX CC V Lab : Electronics Circuits
	Tutorials:			
	Assignment :	**Sem V :** Unit 1 and 2 **Sem III :** Till Behavioral modelling		
OCTOBER	**Theory:**	**Sem V :** 8279,8251,8237/8257. **Sem III :** Sequential Processing	BSc Electronics	ELHT-501 : Microprocessors and Microcontroller CC – VI : Digital Electronics and VHDL
	Practicals:	**Sem V :**hexadecimal to decimal number Interfacing : 8255 , 8259 , 8253 **Sem III :**	BSc Electronics	ELHP-505 : Electronics Practicals IX CC V Lab : Electronics Circuits
	Tutorials:			
	Test	**Sem V :** Unit 1 , 2 and 8255 , 8253 , 8259 **Sem III :** Till Sequential Processing		
NOVEMBER	**Theory:**	**Sem V :** Protected Memory Other Microprocessors Introduction to Microcontroller. **Sem III :** Data Types	BSc Electronics	ELHT-501 : Microprocessors and Microcontroller CC – VI : Digital Electronics and VHDL
	Practicals:	**Sem V :** Interfacing : 8251 , 8279 **Sem III :**	BSc Electronics	ELHP-505 : Electronics Practicals IX CC V Lab : Electronics Circuits
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty: Dr. Rakhi Narang

Department: Electronics **Semester : I/III/V/VII**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Sem III:** Diode Circuits: Ideal Diode, piecewise linear equivalent circuit, dc load line analysis, Quiscent point	BSc Electronics	CC – V/ Electronic Circuits
		Sem V : Introduction to Electronic Communication System and EM spectrum	BSc Electronics	ELHT-502/ Analog Communication
	Practicals	**Sem III:** Clipping and Clamping Circuits, Half Wave Rectifiers with C-filter, and Zener Regulation	BSc Electronics	CC – V/ Electronic Circuit Lab
		Sem V: Amplitude Modulation, AC Bridges: De-Sauty's and Anderson's	BSc Electronics	ELHP-506: Electronics Practical X
		Sem VII: DIAC, SCR Characteristics	B. Tech. Electronics	EL-701 Power Electronics Lab
	Tutorials			
AUGUST	**Theory:**	**Sem III:** Diode Circuits: Clipping and Clamping Circuits, Rectifiers Working and Ripple factor, efficiency Analysis, filter, DC Power supply, Zener voltage Regulator BJT: CE, CB, CC configurations, h-parameters	BSc Electronics BSc Electronics	CC – V/ Electronic Circuits ELHT-502/ Analog Communication
		Sem V : Need for modulation, Waveform spectra		
	Practicals:	**Sem III :** Full Wave Rectifiers with C-filter, and Zener and load Regulation, BJT DC Biasing: Fixed Bias, Collector to base feedback and Voltage divider, Colpitts Oscillator, Phase Shift Oscillator	BSc Electronics	CC – V/ Electronic Circuit Lab
		Sem V: AM circuit designing on board, Frequency Modulation, Platinum resistance thermometer , Solar Cell	BSc Electronics	ELHP-506: Electronics Practical X
		Sem VII: SCR, TRIAC Characteristics	B. Tech. Electronics	EL-701 Power Electronics Lab
	Tutorials:			
	Assessment	**Sem III:** Assignment: Special Purpose Diodes: LED, photodiode, varactor, tunnel diode, Solar cell.		

SEPTEMBER	**Theory:**	**Sem III:** BJT: DC Loadline, Biasing Circuits, Stability, Darlington pair, CE Amplifier (hybrid model, frequency response), Cascade Amplifiers Feedback Amplifiers: Feedback-positive and negative, Feedback amplifier configurations, Barkhausen's Criteria, Oscillator: Phase Shift Oscillator	BSc Electronics	CC – V/ Electronic Circuit
		Sem V: Concept of Noise, Classification of Noise, Signal to noise ratio, Noise Factor/Figure, Noise Temperature, Friss Formula	BSc Electronics	ELHT-502/ Analog Communication
	Practicals:	**Sem III:** Full Wave Bridge Rectifier with C-filter, Zener and Load Regulation, Hartley's Oscillator, CE Amplifier Design	BSc Electronics	CC – V/ Electronic Circuit Lab
		Sem V : SSB Modulation, Demodulation, Carey Foster's bridge, Thermo-emf of a thermo-couple	BSc Electronics	ELHP-506: Electronics Practical X
		Sem VII: DC motor control using SCR, SCR as phase controlled rectifier	B. Tech. Electronics	EL-701 Power Electronics Lab
	Tutorials:			
	Assessment	**Sem III:** Assignment: a)Numerical Problems on Unit1, b) BJT Biasing Circuits c) Exact hybrid model for CE amplifier Test: Unit 1 and 2 (till biasing and stability)		
OCTOBER	**Theory:**	**Sem III:** **LC Oscillators:** Hartley and Colpitts **Power Amplifiers:** Class A, B and C. MOSFET Circuits: Biasing, Small signal equivalent model and Designing of CS Amplifier, CMOS Cricuits	BSc Electronics	CC – V/ Electronic Circuits
		Sem V: Internal and External Noise Sources, Noise in FM Systems	BSc Electronics	ELHT-502/ Analog Communication
	Practicals:	**Sem III:** CE Amplifier designing and frequency response characterization, Power Amplifiers: Class A, B and C	BSc Electronics	CC – V/ Electronic Circuit Lab
		Sem V: Thermo-emf of a thermo-couple, AM Transmitter and Receiver	BSc Electronics	ELHP-506: Electronics Practical X
		Sem VII: SCR as half and Full Wave rectifier, Parallel and Bridge Inverter	B. Tech. Electronics	EL-701 Power Electronics Lab
	Tutorials:			
	Assessment	**Sem III :** **Test:** Unit 2 and 3 Assignment: BJT Fabrication, CMOS Inverter **Sem V:** Assignment: Low Noise Amplifiers and Numerical on Unit 1		

NOVEMBER	**Theory:**	**Sem III: Single Tuned Amplifiers,** **Sem V:** Noise in receivers	BSc Electronics	ELHT-501 CC - VI
	Practicals:	**Sem III :** Common Source FET Amplifier	BSc Electronics	CC – V/ Electronic Circuit Lab
		Sem V : FM Transmitter and Receiver	BSc Electronics	ELHP-506: Electronics Practical X
		Sem VII: UJT as trigger for TRIAC	B. Tech. Electronics	EL-701 Power Electronics Lab
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Academic Session 2016-2017 (Odd Semester)

Name of the Faculty : Dr. Neha Verma
Department : Electronics

Semester: Theory : B.Sc(H) Electronics Sem I (CBCS)
B.Tech Electronics Sem VII

Practical : B.Sc(H) Electronics Sem I (CBCS)
B.Sc.(H) Electronics Sem V (TYUP)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit-I: First Order Ordinary Differentia Equations: Basic Concepts and Definitions, Variables Separable, Homogenous Equations-reduction to Separable form, Non Homogenous Equations reducible to Homogenous form, Exact DE.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics
		Introduction to Power Electronics, History, Power Semiconductor Devices, SCR structure, Basic structure, I-V characteristics.	B.Tech Electronics Sem VII (FYUP)	EL-701/Power Electronics
	Practicals	Starting with MATLAB, arithmetic operations with scalars, order of precedence, display formats, elementary built in functions, defining scalar variables, example questions.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics Lab.
		1. Familiarization with a) Resistance in series, parallel and series – Parallel. b) Capacitors & Inductors in series & Parallel. c) Multimeter – Checking of components. d) Voltage sources in series, parallel and series – Parallel e) Voltage and Current dividers	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-I/Basic Circuit Theory and Network Analysis
		Addressing Modes To write an assembly language program to transfer a block of data. To write an assembly language program to add two-8 bit Hexadecimal Numbers	B.Sc.(H) Electronics Sem V (TYUP)	ELHP-505/Electronics Practical-IX *Based on ELHT501*
	Tutorials	NA	NA	NA
AUGUST	**Theory**	Unit-I: Reduction of Non-exact DE: using Integrating factors, Linear Ordinary DE, Geometrical applications, Orthogonal Trajectories of Curves. Linear DE of Second Order: Linear Independence and Dependence, Linear DE of second order with variable coefficients, second order with constant coefficients: Homogenous and Non-homogenous Equations, Method of variation of parameters, Method of Reduction of Order. Series Solution of DE and Special functions: Classification of Singularities, Power series	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics

		solution, Frobenius Method, Bessel's equation and Bessel's functions of first and second kind, Error functions and Gamma function. Basic structure, working and V-I characteristic of Diac. Basic structure, working and V-I characteristic of Triac.	B.Tech Electronics Sem VII (FYUP)	EL-701/Power Electronics
	Practicals	Creating arrays: Creating a 1D array(vector), 2D array(matrix), array addressing, built in functions for handling arrays, mathematical operations with arrays, script files, functions and function files, programming in matlab: conditional statements(if-end, if-else-end, if-elseif-else-end), switch case, loops(for-end and while-end), break and continue commands. Programs on arrays, matrices and Loops Programs to create user defined Function files. Solution of First Order Differential Equations	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics Lab.
		Verification of Kirchoff's Law. Verification of Norton's theorem. Verification of Thevenin's Theorem.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-I/Basic Circuit Theory and Network Analysis
		To write an assembly language program to multiply two 8-Bit Hexadecimal Numbers To write an assembly language program to add two-16 bit Hexadecimal Numbers Swapping two numbers/swapping a block of data. Check prime number. To write an assembly language program to multiply two 16-Bit Hexadecimal Numbers	B.Sc.(H) Electronics Sem V (TYUP)	ELHP-505/Electronics Practical-IX Based on ELHT501
	Tutorials	NA	NA	NA
SEPTEMBER	**Theory**	Unit-II: Matrices: Introduction to Matrices, Types of Matrices, Rank of a Matrix, System of Algebraic Equations, Gaussian Elimination Method, Gauss-Seidel Method, LU decomposition, Solution of Linear System by LU decomposition. Eigen values and Eigen Vectors, Cayley-Hamiltonian Theorm, Diagonalization, Powers of a Matrix, Real and Complex Matrices, Symmetric, skew symmetric, Orthogonal Quadratic form, Hermitian, Skew Hermitian, Unitary matrices. Unit-III: Sequence and Series: Sequences, Limit of Limit of a sequence, Convergence, Divergence and Oscillation of a sequence, Infinite series, Necessary condition for Convergence.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics
		Application of a diac as a triggering device for a triac. Insulated Gate Bipolar Transistors (IGBT): Basic structure, I-V Characteristics,	B.Tech Electronics Sem VII (FYUP)	EL-701/Power Electronics

		symmetric and asymmetric IGBTs, Equivalent circuit, switching characteristics.		
	Practicals	Solution of Second Order homogeneous Differential Equations. Solution of Second Order non-homogeneous Differential Equations Solution of linear system of equations using Gauss Elimination method.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics Lab.
		Verification of Superposition Theorem. Verification of the Maximum Power Transfer Theorem. Measurement of Amplitude, Frequency & Phase difference using CRO.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-I/Basic Circuit Theory and Network Analysis
		To write an assembly language program to convert a 16 Bit Hexadecimal Number to Decimal Number. To write an language program to Generate Fibonacci series To write an language program to sort hexadecimal numbers in ascending order To write an assembly language program to sort hexadecimal numbers in descending order	B.Sc.(H) Electronics Sem V (TYUP)	ELHP-505/Electronics Practical-IX Based on ELHT501
	Tutorials	NA	NA	NA
	Assignment	Assignment: Questions based on topics covered.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics.
OCTOBER	**Theory**	Cauchy‘s Integral Test, D‘Alembert‘s Ratio Test, Cauchy‘s nth Root Test, Alternating Series, Leibnitz‘s Theorem, Absolute Convergence and Conditional Convergence, Power Series. Unit-IV: Complex Variables and Functions: Complex Variable, Complex Function, Continuity, Differentiability, Analyticity.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics
		IGBT: device limitations and safe operating area (SOA). power BJT, CE Characteristics,Switching Performance, Breakdown Voltages: second breakdown, saturation and quasi saturation state., SOA.	Sem VII, B.Tech Electronics (FYUP)	EL-701/Power Electronics
	Practicals	Solution of linear system of equations using Gauss – Seidel method. Solution of linear system of equations using L-U decomposition method.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics Lab.
		RC Circuits: Time Constant, Differentiator, Integrator. Designing of a Low Pass RC Filter and study of its Frequency Response. Designing of a High Pass RC Filter and study of its Frequency Response.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-I/Basic Circuit Theory and Network Analysis
		To find the nearest integer value of square root of an integer.	B.Sc.(H) Electronics Sem V (TYUP)	

		To write an assembly language program to Generate Digital Clock. To study the working of IC 8255 (Interfacing experiment) To study the working of IC 8253 (Interfacing experiment) To study the working of IC 8259 (Interfacing experiment)		ELHP-505/Electronics Practical-IX Based on ELHT501
	Tutorials	NA	NA	NA
	Test	Test: As per the covered topics.		
NOVEMBER	**Theory**	Unit-IV: Cauchy-Riemann (C- R) Equations, Harmonic and Conjugate Harmonic Functions, Exponential Function, Trigonometric Functions, Hyperbolic Functions. Line Integral in Complex Plane, Cauchy's Integral Theorem, Cauchy's Integral Formula, Derivative of Analytic Functions. Sequences, Series and Power Series, Taylor's Series, Laurent Series, Zeroes and Poles. Residue integration method, Residue integration of real Integrals.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics
		Power MOSFETs: Basic Structure, Depletion and Enhancement Mode (operation modes), Output Characteristics, Equivalent Circuit, switching characteristics, SOA.	Sem VII, B.Tech Electronics (FYUP)	EL-701/Power Electronics
	Practicals	Convergence of a given series. Divergence of a given series.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-II/ Mathematics Foundation for Electronics Lab.
		Study of the Frequency Response of a Series LCR Circuit and determination of its (a) Resonant Frequency (b) Impedance at Resonance (c) Quality Factor Q (d) Band Width.	B.Sc.(H) Electronics Sem I (CBCS)	Core-Course-I/Basic Circuit Theory and Network Analysis
		To study the working of IC 8279 (Interfacing experiment) To study the working of IC 8251 (Interfacing experiment)	B.Sc.(H) Electronics Sem V (TYUP)	ELHP-505/Electronics Practical-IX Based on ELHT501
	Tutorials	NA	NA	NA

CHEMISTRY TEACHING PLAN

ALL TEACHERS

2016-17- ODD SEMESTER

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE-2016-17 (odd)

Name of the Faculty: Dr. R.P.SINGH Department: CHEMISTRY

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Carbonyl Compounds:** Structure, reactivity, preparation and properties; Nucleophilic additions, Nucleophilic addition-elimination reactions with ammonia derivatives with mechanism;	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals			
AUGUST	**Theory**	Mechanisms of Aldol and Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt, Perkin, Cannizzaro and Wittig reaction, Beckmann and Benzil-Benzilic acid rearrangements, haloform reaction and Baeyer Villiger oxidation, α-substitution reactions, oxidations and reductions (Clemmensen, Wolff-Kishner, $LiAlH_4$, $NaBH_4$, MPV, PDC), Addition reactions of unsaturated carbonyl compounds: Michael addition.	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Acetylation of amines and phenols Benzolyation of amines and phenols. Determination of CST and Effect of impurities on CST	B.Sc. CHEMISTRY (Hons.) II Year, Semester III GE(III)	CC-VI : ORGANIC CHEMISTRY-II LAB Conductance, electrochemistry,biomi olecules
SEPTEMBER	**Theory**	Active methylene compounds: Keto-enol tautomerism. Preparation and synthetic applications of diethyl malonate and ethyl acetoacetate. **Carboxylic acids and their Derivatives:** General methods of preparation, physical properties and reactions of monocarboxylic acids, effect of substituents on acidic strength. Typical reactions of dicarboxylic acids , hydroxy acids and unsaturated acids. Preparation and reactions of acid chlorides, anhydrides, esters and amides;	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals	Selective reduction of *meta* dinitrobenzene to *m*-nitroaniline Hydrolysis of amides and esters Conductometric titrations of stong acid vs strong base Potentiometric titration of stong acid vs strobg base, Compound analysis	B.Sc. CHEMISTRY (Hons.) II Year, Semester III GE(III)	CC-VI : ORGANIC CHEMISTRY-II LAB Conductance, electrochemistry,biomi

				olecules
	Assignment	Halogenated Hydrocarbons and Carbonyl Compounds	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
OCTOBER	**Theory**	Comparative study of nucleophilic sustitution at acyl group -Mechanism of acidic and alkaline hydrolysis of esters. Claisen condensation, Dieckmann and Reformatsky reactions, Hofmann-bromamide degradation and Curtius rearrangement.	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Semicarbazone preparation S-Benzylisothiouronium salt of water soluble and water insoluble acids Nitration of nitrobenzene, Iodoform reaction, Aldol condensation. Conductometric titrations of stong acid vs strong base Potentiometric titration of stong acid vs strong base, Compound analysis	B.Sc. CHEMISTRY (Hons.) II Year, Semester III GE(III)	CC-VI : ORGANIC CHEMISTRY-II LAB Conductance, electrochemistry,biomi olecules
	Test	Halogenated Hydrocarbons and Carbonyl Compounds	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
NOVEMBER	**Theory:**	**Ethers and Epoxides:** Preparation and reactions with acids. Reactions of epoxides with alcohols, ammonia derivatives and $LiAlH_4$	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Functional group tests for alcohols, phenols, carbonyl and carboxylic acid group Practice exercises	B.Sc. CHEMISTRY (Hons.) II Year, Semester III GE(III)	CC-VI : ORGANIC CHEMISTRY-II LAB Conductance, electrochemistry, biomolecules

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Mercy Jacob

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Unit I : Coordination Chemistry** Werner's theory, valence bond theory (inner and outer orbital complexes),	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV
	Practicals	(a) Quantitative Analysis: The following quantitative estimations are to be carried out. (i) Estimation of nickel (II) using Dimethylglyoxime as the precipitant.	B.Sc.(H) Chemistry	Paper 17-CHHP 511: Inorganic Chemistry - IV
		Inorganic preparations (i) Cuprous Chloride, Cu_2Cl_2	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
	Tutorials	NA	NA	NA

AUGUST	**Theory:**	**Unit I : Coordination Chemistry** Electroneutrality principle and back bonding. Crystal field theory, measurement of 10 Dq , CFSE in weak and strong fields, pairing energies, factors effecting the magnitude of 10 Dq (_o, _t). Octahedral vs. tetrahedral coordination, tetragonal distortions from octahedral geometry Jahn-Teller theorem, square planar geometry.	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV
	Practicals:	(ii) Estimation of copper as CuSCN (iii) Estimation of iron as Fe2O3 by precipitating iron as Fe(OH)3 through (i) Heterogeneous	B.Sc.(H) Chemistry	Paper 17-CHHP 511: Inorganic Chemistry - IV
	Practicals:	**(C) Inorganic preparations** (iii) Aluminium potassium sulphate KAl(SO4)2.12H2O (Potash alum) or Chrome alum. **A) Iodo / Iodimetric Titrations** (i) Estimation of Cu(II) and K2Cr2O7 using sodium thiosulphate solution (Iodometrically).	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
	Tutorials:	NA	NA	NA

SEPTEMBER	**Theory:**	Qualitative aspect of Ligand field and MO Theory. IUPAC nomenclature of coordination compounds, isomerism in coordination compounds. Stereochemistry of complexes with 4 and 6 coordination numbers. Chelate effect, polynuclear complexes, Labile and inert complexes.	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV

Practicals:	Estimation of iron as Fe2O3 by precipitating iron as Fe(OH)3 through Homogeneous media. (iv) Estimation of Al (III) by precipitating with oxine and weighing as Al(oxine)3 (aluminium oxinate).	B.Sc.(H) Chemistry	Paper 17-CHHP 511: Inorganic Chemistry - IV
Practicals:	Estimation of antimony in tartar-emetic iodimetrically **(B) Complexometric titrations using disodium salt of EDTA** (i) Estimation of Mg2+,	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
Tutorials:	NA	NA	NA
Assignment :	**Coordination Chemistry**	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV

OCTOBER	**Theory:**	**Unit II: Transition elements:** General group trends with special reference to electronic configuration, colour, variable valency, magnetic and catalytic properties, ability to form complexes. Stability of various oxidation states and e.m.f. (Latimer & Bsworth diagrams). Difference between the first, second and third transition series. Chemistry of Ti, V, Cr Mn, Fe and Co in various oxidation states (excluding their metallurgy)	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV
	Practicals:	(iii) Cis and trans K[Cr(C2O4)2 (H2O2] Potassium dioxalatodiaquachromate (III) (iv) Pentaammine carbonato Cobalt (III) ion	B.Sc.(H) Chemistry	Paper 17-CHHP 511: Inorganic Chemistry - IV
		(i) Estimation of Mg2+, Zn2+ (ii) Estimation of Ca2+ by substitution method	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
	Tutorials:	NA	NA	NA
	<u>Test</u>	Coordination chemistry & Transition elements	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV

NOVEMBER	**Theory:**	Unit III: Lanthanoids and actinoids: electronic configuration, oxidation states, colour, spectral and magnetic properties, lanthanide contraction, separation of lanthanides (ion-exchange method only).	B.Sc.(H) Chemistry	Paper 17-CHHT 511: Inorganic Chemistry - IV
	Practicals:	(c) Spectrophotometric estimation of Ferrous ions by using 1,10 phenanthroline.	B.Sc.(H) Chemistry	Paper 17-CHHP 511: Inorganic Chemistry - IV
	Tutorials:	NA	NA	NA

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Vibha Saxena

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Unit 1. Transition Elements (3d series)** General group trends with special reference to electronic configuration, variable valency.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
	Practicals	(A) Titrimetric Analysis (i) Calibration and use of apparatus	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
	Tutorials	NA	NA	NA
AUGUST	**Theory:**	**Unit 1. Transition Elements (3d series)** Magnetic and catalytic properties, ability to form complexes and stability of various oxidation states (Latimer diagrams) for Mn, Fe and Cu. Lanthanides and actinides: Electronic configurations, Oxidation states, colour.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)

	Practicals:	(ii) Preparation of solutions of titrants of different Molarity/Normality (B) Acid-Base Titrations Principles of acid-base titrations to be discussed. (i) Estimation of sodium carbonate using standardized HCl. (ii) Estimation of carbonate and hydroxide present together in a mixture.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
	Practicals:	**Section A:** Inorganic Chemistry 1. Estimation of the amount of nickel present in a given solution as Bis(dimethylglyoximato) nickel(II) or aluminium as oxinate in a given solution gravimetrically.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
	Tutorials:	NA	NA	NA
SEPTEMBER	**Theory:**	Lanthanides and actinides: colour, magnetic properties, lanthanide contraction, separation of lanthanides (ion-exchange method only). **Unit 2. Coordination Chemistry** Valency Bond Theory (VBT): Inner and outer orbital complexes of Cr, Fe, Co, Ni and Cu (coordination numbers 4 and 6).	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)

Practicals:	(iii) Estimation of carbonate and bicarbonate present together in a mixture. (C) Oxidation-Reduction Titrimetry Principles of oxidation-reduction titrations (electrode potentials) to be discussed. (i) Estimation of Fe(II) using standardized $KMnO_4$ solution	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
Practicals:	2. Estimation of (i) Mg2+ or (ii) Zn2+ by complexometric titrations using EDTA. 3. Estimation of total hardness of a given sample of water by complexometric titration. 4. To draw calibration curve (absorbance at λmax vs. concentration) for various concentrations of a given coloured compound and estimate the concentration of the same in a given solution. 5. Determination of the composition of the Fe3+ - salicylic acid complex / Fe2+ - phenanthroline complex in solution by Job's method. (i) Estimation of oxalic acid using standardized $KMnO_4$ solution (ii) Estimation of oxalic acid and sodium oxalate in a given mixture.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
Tutorials:	NA	NA	NA

	Assignment :	Chemistry of d-block elements	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
OCTOBER	**Theory:**	**Unit 2. Coordination Chemistry:** Structural and stereoisomerism in complexes with coordination numbers 4 and 6. Drawbacks of VBT. IUPAC system of Nomenclature. Unit 3. Crystal Field Theory Crystal field effect, Octahedra symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields. Tetrahedral symmetry. Factors affecting the magnitude of _. Spectrochemical series. Comparison of CFSE for Oh and Td complexes,	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
	Practicals:	(iii) Estimation of Fe(II) with $K_2Cr_2O_7$ using internal indicator (diphenylamine, Nphenylanthranilic acid) and discussion of external indicator.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

		6. Determination of concentration of Na+ and K+ using Flame Photometry. Section B: Physical Chemistry (I) Potentiometric measurements (a) Strong acid with strong base (b) Weak acid with strong base (c) Mohr's salt with potassium dichromate (II) Conductometric measurements. (a) Determination of the cell constant. (b) Study of the variation of molar conductivity of a strong electrolyte (KCl) and of a weak electrolyte (acetic acid) with concentration. (c) Conductometric titrations for the following systems (i) strong acid - strong base (ii) weak acid - strong base	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
	Tutorials:	NA	NA	NA
	<u>Test</u>	Chemistry of d-block elements	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
NOVEMBER	**Theory:**	**Unit 3. Crystal Field Theory:** Tetragonal distortion of octahedral geometry. Jahn-Teller distortion. Square planar coordination.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)

	Practicals:	(iii) Estimation of Fe(II) with $K_2Cr_2O_7$ using Nphenylanthranilic acid) and discussion of	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		(III) Kinetic studies Study of the kinetics of the following reactions by integrated rate method: a. Acid hydrolysis of methyl acetate with hydrochloric acid, volumetrically or conductometrically b. lodide-persulphate reaction.	B.Sc.(P) Life Science	Paper 17-CHPT 505-Chemistry-5 (Chemistry of d-block elements, Quantum Chemistry and Spectroscopy)
	Tutorials:	NA	NA	NA

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE-
2016-17 (odd)

Name of the Faculty: Dr. Sharda Pasricha

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit I : Carbohydrates,	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-512 : Organic Chemistry IV
	Practicals	To perform quantitative estimation of protein using Lowry's method Systematic Qualitative Organic Analysis of Organic Compounds	B.Sc. CHEMISTRY (Hons.) III Year, Semester V -do-	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY CHHP-512 : Organic Chemistry IV
AUGUST	**Theory**	UNIT I : Carbohydrates	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-512 : Organic Chemistry IV
	Practicals:	Study of the action of salivary amylase at optimum conditions. Effect of temperature on the action of salivary amylase. Systematic Qualitative Organic Analysis of Organic Compounds	B.Sc. CHEMISTRY (Hons.) III Year, Semester V -do-	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY CHHP-512 : Organic Chemistry IV

SEPTEMBER	**Theory**	Unit I: Carbohydrates UNIT II: Amino acids and Peptides	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-512 : Organic Chemistry IV
	Practicals	To perform quantitative estimation of protein using Lowry's method. To determine DO value for the given sample of water. Systematic Qualitative Organic Analysis of Organic Compounds Detection Of Extra Elements in the given Organic Compound	B.Sc. CHEMISTRY (Hons.) III Year, Semester V B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY CHHP-512 : Organic Chemistry IV
	<u>Assignment</u>	Carbohydrates and Nucleic acids	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-512 : Organic Chemistry IV
OCTOBER	**Theory**	Unit I: Amino Acids and Peptides	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-512 : Organic Chemistry IV

	Practicals:	Effect of inhibitor on the action of salivary amylase. Isolation of Genomic DNA from Cauliflower. To determine COD of the given sample of water. Systematic Qualitative Organic Analysis of Organic Compounds Detection Of Extra Elements in the given Organic Compound	B.Sc. CHEMISTRY (Hons.) III Year, Semester V B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY CHHP 512:Organic Chemistry IV
	<u>Test</u>	Carbohydrates and Nucleic Acids	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-512 : Organic Chemistry IV
NOVEMBER	**Theory:**	UNIT II : Amino Acids and peptides	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-512 : Organic chem. IV
	Practicals:	Study of the activity of Trypsin. Systematic Qualitative Organic Analysis of Organic Compounds Detection Of Extra Elements in the given Organic Compound	B.Sc. CHEMISTRY (Hons.) III Year, Semester V B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY CHHP-512 : Organic Chemistry IV

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Shefali Shukla

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Components of nucleic acids, Nucleosides and nucleotides; Hybridization in organic compounds, cleavage	B.Sc (Hons) Chemistry V sem B.Sc (Hons) Biological science I sem	CHHT-512: paper 18- organic chemistry IV BS-C1: Chemistry (Theory)
	Practicals			
	Tutorials			
AUGUST	**Theory:**	Structure, synthesis and reactions of: Adenine, Guanine, Cytosine, Uracil and Thymine; Structure of polynucleotides. Electronic effects, hyperconjugation effects. Structure and relative stability of reactive carbon species, Molecular Forces	B.Sc (Hons) Chemistry V sem B.Sc (Hons) Biological science I sem	CHHT-512: paper 18- organic chemistry IV BS-C1: Chemistry (Theory)

	Practicals:	Study of the action of salivary amylase Protein estimation	B.Sc (Hons) Chemistry V sem	Paper 20-CHHP 514: Biochemistry and Environmental Chemistry
		Qualitative Organic Analysis of Organic Compounds Conductometric titration of strong acid and strong base	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab
		Purification of organic compounds by crystallization Determination of melting/ boiling point Detection of extra elements in the given organic compound	B.Sc. life science (prog.) I Year, Semester I	Chemistry lab
	Tutorials:			
SEPTEMBER	**Theory:**	Occurrence, classification, isoprene rule; Elucidation of stucture and synthesis of Citral, Neral and α-terpineol.	B.Sc (Hons) Chemistry V sem	CHHT-512: paper 18-organic chemistry IV
		Aromaticity Stereochemistry and its importance. Stereoisomerism	B.Sc (Hons) Biological science I sem	BS-C1: Chemistry (Theory)

	Practicals:	Dissolved oxygen estimation, Studies based on Salivary amylase Protein estimation by Lowry's method	B.Sc (Hons) Chemistry V sem	Paper 20-CHHP 514: Biochemistry and Environmental Chemistry
		Estimation of oxalic acid by titrating it with KMnO4 Estimation of Fe (II) ions by titrating it with K2Cr2O7 using internal indicator. Detection of extra elements in the given organic compound	B.Sc. life science (prog.) I Year, Semester I	Chemistry Lab
		Qualitative Organic Analysis of Organic Compounds Conductometric titrations Potentiometric titrations	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab
	Tutorials:			
	<u>Assignment :</u>	Assignment: carbohydrates , nucleic acids Basic fundamentals of organic chemistry	B.Sc (Hons) Chemistry V sem B.Sc (Hons) Biological science I sem	CHHT-512: paper 18- organic chemistry IV BS-C1: Chemistry (Theory)
OCTOBER	**Theory:**	Unit V: Pharmaceutical Compounds: Structure and Importance Introduction to oils and fats; common fatty acids present in oils and fats	B.Sc (Hons) Chemistry V sem	CHHT-512: paper 18- organic chemistry IV
		Stereoisomerism, Relative and absolute configuration	B.Sc (Hons) Biological science I sem	BS-C1: Chemistry (Theory)
	Practicals:	Studies based on Salivary amylase, Isolation of Genomic DNA from E Coli To determine COD of the given sample of water.	B.Sc (Hons) Chemistry V	Paper 20-CHHP 514: Biochemistry and Environmental Chemistry
		Qualitative Organic Analysis of Organic Compounds Determination of the critical solution temperature and composition of the phenol water system. Differentiation between a reducing and non-reducing sugar.	B.Sc. life science (prog.) II Year, Semester III	Chemistry lab
		Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture. dentify and separate the components of a given mixture of 2 amino acids by paper chromatography.	B.Sc. life science (prog.) I Year, Semester I	Chemistry lab

	Tutorials:			
	<u>Test</u>	Test: carbohydrates, nucleic acids Basic fundamentals of organic chemistry and basics of stereochemistry	B.Sc. CHEMISTRY (Hons.) III Year, Semester V B.Sc (Hons) Biological science I sem	CHHT-512: paper 18- organic chemistry IV BS-C1: Chemistry (Theory)
NOVEMBER	**Theory:**	Hydrogenation of fats and oils, Saponification value, acid value, iodine number. Reversion and rancidity. Conformational isomerism	B.Sc (Hons) Chemistry V sem B.Sc (Hons) Biological science I sem	CHHT-512: paper 18- organic chemistry IV BS-C1: Chemistry (Theory)
	Practicals:	Study of the activity of Trypsin Determination of the concentration of glycine solution by formylation method. Study of the variation of mutual solubility temperature with concentration for the phenol water	B.Sc (Hons) Chemistry V sem B.Sc. life science (prog.) II Year, Semester III	Paper 20-CHHP 514: Biochemistry and Environmental Chemistry Chemistry lab
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE-2016-17 (odd)

Name of the Faculty: Dr.Pooja **Department: CHEMISTRY**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit II: Lipids: Biological Importance of triglycerides and phospholipids	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Alkyl halides: Methods of preparation,	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals	To perform quantitative estimation of protein using Lowry's method	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
AUGUST	**Theory**	Unit II: Lipids: Lipid membrane, LIposomes. Unit II: Structure of DNA & RNA, Replication, Transcription, Translation,	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Alkyl halides: nucleophilic substitution reactions – SN1, SN2 and SNi mechanisms with stereochemical aspects and effect of solvent etc.; nucleophilic substitution vs. elimination.	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Study of the action of salivary amylase at optimum conditions. Effect of temperature on the action of salivary amylase.	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Estimation of oxalic acid by titrating it with $KMnO_4$	B.Sc. life science (prog.) I Year, Semester I	Chemistry Lab
		Systematic Qualitative Organic Analysis of Organic Compounds	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab
SEPTEMBER	**Theory**	Unit I: Carbohydrates: Biological importance of carbohydrates, Metabolism, Cellular currency of energy (ATP), Glycolysis, Alcoholic and Lactic acid fermentations, Krebs cycle	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Aryl halides: Preparation, including preparation from diazonium salts. nucleophilic aromatic substitution; SNAr, Benzyne mechanism. Relative reactivity of alkyl, allyl/benzyl, vinyl and aryl halides towards nucleophilic substitution reactions.	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II

	Practicals	To perform quantitative estimation of protein using Lowry's method. To determine DO value for the given sample of water.	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Estimation of Fe (II) ions by titrating it with $K_2Cr_2O_7$ using internal indicator. Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture.	B.Sc. life science (prog.) I Year, Semester I	Chemistry Lab
		Conductometric Titration between: Strong acid vs. strong base, Weak acid vs. strong base. Potentiometric titration between: Strong acid vs. strong base, Weak acid vs. strong base.	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab
	Assignment	Lipids and DNA	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Alkyl Halide and Aldehyde ketones	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
OCTOBER	**Theory**	Unit I: Proteins: classification, biological importance; Primary, secondary and tertiary structures of proteins: α-helix and β- pleated sheets, Denaturation of proteins. Enzymes: Nomenclature, Characteristics (mention of Ribozymes), Classification;Active site, Mechanism of enzyme action.	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Alcohols: preparation, properties and relative reactivity of 1°, 2°, 3° alcohols, Bouvaelt-Blanc Reduction; Preparation and properties of glycols: Oxidation by periodic acid and lead	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Effect of inhibitor on the action of salivary amylase. Isolation of Genomic DNA from Cauliflower. To determine COD of the given sample of water.	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Purification of OC by crystallisation (from water and alcohol) and distillation. Criteria of purity: Determination of Mpt/Bpt Detection of extra elements (N, S, Cl, Br, I) in organic compounds.	B.Sc. life science (prog.) I Year, Semester I	Chemistry Lab
		Determination of the critical solution temperature and composition of the phenol water system. Differentiation between a reducing and non-reducing sugar.	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab

	Test	DNA and Carbohydrates	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Aryl halide and Carboxylic acid	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
NOVEMBER	**Theory:**	Stereospecificity of enzymes,Coenzymes and cofactors, Enzyme inhibitors, Introduction to Biocatalysis:Importance in "Green Chemistry" and Chemical Industry	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHT-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Phenols: Preparation and properties; Acidity and factors effecting it, Ring substitution reactions, Reimer–Tiemann and Kolbe's–Schmidt Reactions, Fries and Claisen rearrangements with mechanism.	B.Sc. CHEMISTRY (Hons.) II Year, Semester III	CC-VI : ORGANIC CHEMISTRY-II
	Practicals:	Study of the activity of Trypsin.	B.Sc. CHEMISTRY (Hons.) III Year, Semester V	CHHP-514 : BIOCHEMISTRY and ENVIRONMENTAL CHEMISTRY
		Identify and separate the components of a given mixture of 2 amino acids (glycine, aspartic acid, glutamic acid, tyrosine or any other amino acid) by paper chromatography.	B.Sc. life science (prog.) I Year, Semester I	Chemistry Lab
		Study of the variation of mutual solubility temperature with concentration for the phenol water system and determination of the critical solubility temperature. Determination of the concentration of glycine solution by formylation method.	B.Sc. life science (prog.) II Year, Semester III	Chemistry Lab

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Deepti Sharma **Department: Chemistry**

Semester : I/III/V

Month		Topics	Course	Paper Name
JULY	**Theory**	Carboxylic Acid	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Fundamentals of Organic Chemistry	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry
	Practical	Systematic analysis of extra elements in given organic compounds	B.Sc (H) Chemistry Semester-V	Organic Chemistry-IV CHHP 512
		Systematic analysis of extra elements in given organic compounds	B.Sc Life Science Semester-I	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons Atomic Structure,
		Purification of given organic compound by crystallization	Generic Elective-I Semester-I	Bonding and General Organic Chemistry
AUGUST	**Theory:**	Carboxylic Acid Derivatives	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Stereochemistry	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry

	Practical	Systematic analysis of extra elements in given organic compounds Test for the functional group and unsaturation	B.Sc (H) Chemistry Semester-V	Organic Chemistry-IV CHHP 512
		Systematic analysis of extra elements in given organic compounds	B.Sc Life Science Semester-I	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons
		Criteria of purity: determination of melting point/ boiling	Generic Elective-I Semester-I	Atomic Structure, Bonding and General Organic Chemistry
SEPTEMBER	**Theory:**	Amines and Diazonium Salts Amino Acids, Peptides and Proteins	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Alkanes	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry
	Test:	Carboxylic Acid Derivatives Amines and Diazonium Salts	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Fundamentals of Organic Chemistry Stereochemistry Alkanes	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry
	Practical	Systematic analysis of extra elements in given organic compounds Test for the functional group and unsaturation	B.Sc (H) Chemistry Semester-V	Organic Chemistry-IV CHHP 512
		Separation of mixture by chromatography Amino Acids: Glycine and Tryptophan	B.Sc Life Science Semester-I	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons
		Separation of mixture by chromatography Amino Acids: Glycine and Tryptophan	Generic Elective-I Semester-I	Atomic Structure, Bonding and General Organic Chemistry

OCTOBER	**Theory:**	Amino Acids, Peptides and Proteins Carbohydrates	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Alkenes, Alkynes	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry
	Assignment:	Amino Acids, Peptides and Proteins Carbohydrates	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Alkenes, Alkynes	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry
	Practical	Systematic analysis of extra elements in given organic compounds Test for the functional group and unsaturation	B.Sc (H) Chemistry Semester-V	Organic Chemistry-IV CHHP 512
		Separation of mixture by chromatography Sugars		Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons
		Separation of mixture by chromatography Sugars		Atomic Structure, Bonding and General Organic Chemistry
	Theory:	Carbohydrates	B. Sc Life Science Semester III	Solution Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
		Alkynes	Generic Elective-I	Atomic Structure, Bonding and General Organic Chemistry

NOVEMBER	**Practical**	Systematic analysis of extra elements in given organic compounds Test for the functional group and unsaturation Separation of mixture by chromatography Separation of mixture by chromatography	B.Sc (H) Chemistry Semester-V	Organic Chemistry-IV CHHP 512 Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons Atomic Structure, Bonding and General

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
2016-17

Name of the Faculty: Dr. Pragya Gahlot **Department: Chemistry**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Phase Equilibria**: Derivation of Gibbs Phase Rule for nonreactive and reactive systems	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III
	Practicals	Introductory Class	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III Lab
		Introductory Class	B.Sc. (H) Chemistry Semester I	Chemistry C – II Lab: Physical Chemistry I
		Introductory Class	B.Sc. Life Sciences Semester III	Chemistry Lab
		Introductory Class	B.Sc. (H) Chemistry Semester III	SEC: IT skills for Chemists
	Tutorials			
AUGUST	**Theory:**	Clausius-Clapeyron equation and its Applications. Phase diagram for one component systems and solid-liquid equilibria	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: PHYSICAL CHEMISTRY III
	Practicals :	Determination of critical solution temperature and composition at CST of the phenol water system and to study the effect of impurities of sodium chloride and succinic acid on it.	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: PHYSICAL CHEMISTRY III Lab
		Surface tension measurements using stalagmometer.	B.Sc. (H) Chemistry Semester I	Chemistry C – II Lab: Physical Chemistry I
		Phase equilibria Determination of the critical solution temperature and composition of the phenol water system and study of the effect of impurities on it.	B.Sc. Life Sciences Semester III	Chemistry Lab

		Introductory writing activities: Introduction to word processor and Incorporating chemical structures, chemical equations and expressions from chemistry into word processing documents.	B.Sc. (H) Chemistry Semester III	SEC: IT skills for Chemists
	Tutorials:			
SEPTEMBER	**Theory:**	Binary solutions partial miscibility of liquids Nernst distribution law Three component systems. **Electrochemical Cells**	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III
	Practicals:	**Phase equilibria:** Construction of the phase diagram using cooling curves: a. simple eutectic and b. congruently melting systems.	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III Lab
		Viscosity measurement using Ostwald's viscometer.	B.Sc. (H) Chemistry Semester I	Chemistry C – II Lab: Physical Chemistry I
		Conductance **Potentiometry**	B.Sc. Life Sciences Semester III	Chemistry Lab
		Handling numeric data: Spreadsheet software (Excel) Presentation graphic	B.Sc. (H) Chemistry Semester III	SEC: IT skills for Chemists
	Tutorials:			
	Test1 **Assignme**	Phase Equillibria		
OCTOBER	**Theory:**	Electromotive force of a cell and its measurement, Nernst equation Application of EMF measurements Concentration cells with and without transference	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III
	Practicals:	Distribution and Study of equilibrium by the distribution method **Potentiometry**	B.Sc. (H) Chemistry Semester III	CHEMISTRY - C VII: Physical Chemistry III Lab
		pH metry	B.Sc. (H) Chemistry Semester I	Chemistry C – II Lab: Physical Chemistry I
		Simple eutectic Phase diagram	B.Sc. Life Sciences Semester III	Chemistry Lab
		Numeric modelling ChemSketch software.	B.Sc. (H) Chemistry Semester III	SEC: IT skills for Chemists
	Tutorials:			

	Test2	Electrochemistry		
NOVEMBER	**Theory:**	**Surface chemistry**	B.Sc. (H) Chemistry Semester III	Chemistry - C VII: physical chemistry III
	Practicals:	Practice Exercise	B.Sc. (H) Chemistry Semester III	Chemistry - C VII: Physical Chemistry III LAB
		Solid State: Indexing of a given powder diffraction pattern of a cubic crystalline system	B.Sc. (H) Chemistry Semester I	Chemistry C – II Lab: Physical Chemistry
		Distribution Study of the equilibrium	B.Sc. Life Sciences	Chemistry Lab
		Statistical analysis Statistical significance testing	B.Sc. (H) Chemistry Semester III	SEC: IT skills for Chemists
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr. Vinita Kapoor**

Department: **Chemistry** **Semester : I**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Liquid state	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Practicals	1. Determination of surface tension by drop weight method	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Tutorials	----		
AUGUST	**Theory:**	Liquid state, Gaseous state	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Practicals:	1. Determination of surface tension by drop weight method 2. Determination of surface tension by drop number method 3. Determination of surface tension by drop number method	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Tutorials:	-------		
SEPTEMBER	**Theory:**	Gaseous state	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Practicals:	1. Study the variation of surface tension of detergent solution. 2.Determination of coefficient of viscosity of an unknown aq. solution	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Tutorials:	------		
	<u>Assignment :</u>	Assignment no. 1 given		
OCTOBER	**Theory:**	Gaseous state, solid state	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Practicals:	1. Study the effect of concentration of solute on coefficient of viscosity. *other experiments are yet to be done	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I

	Tutorials:	Assignment no. 2 to be given		
	<u>Test</u>	Scheduled after mid-sem break		
NOVEMBER	**Theory:**	solid state	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Practicals:	Mock practical Mock viva	B.Sc. (Hons.) Chemistry	CC-II: Physical chemistry-I
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr. Vinita Kapoor**

Department: **Chemistry** **Semester : III**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Fundamentals of BASIC language	B.Sc. (Hons.) Chemistry	SEC-1 IT Skills for chemists
	Practicals	Introduction to word processor. Incorporating chemical structures, chemical equations, expressions from chemistry (e.g. Maxwell-Boltzmann distribution law, Bragg's law, van der Waals equation, etc.) into word processing documents. Incorporating tables and graphs into word processing documents.	B. Sc. (H) Chemistry II year, Semester III	SEC: IT SKILLS FOR CHEMISTS
	Tutorials	----		
AUGUST	**Theory:**	Fundamentals of BASIC language, operators, strings, debugging	B.Sc. (Hons.) Chemistry	SEC-1 IT Skills for chemists
	Practicals:	Handling numeric data: Spreadsheet software (Excel), creating a spreadsheet, entering and formatting information, basic functions and formulae, creating charts, tables and graphs. Simple calculations, plotting graphs using a spreadsheet. Graphical solution of equations. Numeric modelling	B. Sc. (H) Chemistry II year, Semester III	SEC: IT SKILLS FOR CHEMISTS

	Tutorials:	----		
SEPTEMBER	**Theory:**	Simple programs based on concepts in BASIC, matrix manipulation, arithmetic expressions	B.Sc. (Hons.) Chemistry	SEC-1 IT Skills for chemists

	Practicals:	Numerical curve fitting, linear regression numerical differentiation integration	B. Sc. (H) Chemistry II year, Semester III	SEC: IT SKILLS FOR CHEMISTS
	Tutorials:	----		
	Assignment :	Taken assignment no. 1		
OCTOBER	**Theory:**	Numerical integration (Trapezoidal and Simpson's rule, e.g. entropy/enthalpy change from heat capacity data).		
	Practicals:	Differential calculus: The tangent line and the derivative of a function, numerical differentiation. Numerical integration (Trapezoidal and Simpson's rule, e.g. entropy/enthalpy change from heat capacity data). Computer Programming BASIC language.	B.Sc. (Hons.) Chemistry sem III	SEC: IT SKILLS FOR CHEMISTS
	Tutorials:	----		
	Test	Scheduled after mid-sem break		
NOVEMBER	**Theory:**	Least square fitting, regression analysis, numerical methods		
	Practicals:	Constants, variables, bits, bytes, binary and ASCII formats, arithmetic expressions, hierarchy of operations, inbuilt functions. Elements of the	B.Sc. (Hons.) Chemistry sem III	SEC: IT SKILLS FOR CHEMISTS

	Tutorials:			

SEMESTER WISE TEACHING PLAN

Academic year 2016-2017 (Odd Semester)

SRI VENKATESWARA COLLEGE

Name of the Faculty: Ms. Laishram Saya Devi **Department: CHEMISTRY**

Semester: I/IIIV

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**CONDUCTANCE:** Conductance, Equivalent and molar conductance and their variation with concentration for weak and strong electrolytes, Kohlrausch's law Arrhenius theory of electrolytic dissociation, conductivity, equivalent and molar conductivity their variation with dilution for weak and strong Electrolytes	B.Sc.(P) Life Sciences Semester III B.Sc. (H) Chemistry Semester V	Core Course III CHHT 513 PHYSICAL CHEMISTRY IV
	Practical	**Introductory class** Determination of Surface tension of unknown liquids No entry for students	B.Sc. (H) Chemistry Semester III B.Sc.(H) Biological Sciences GE(III)	Core Course VII BS – C1 Conductance, electrochemistry, biomolecules
AUGUST	**Theory:**	Transference number and its experimental determination using Hittorf's Method and Moving Boundary method. Ionic mobility, applications of Conductance measurements in determination of degree of ionization, solubility product, ionic product of water, hydrolysis constant of salt Molar conductivity at infinite dilution. Kohlrausch law of independent migration of ion. Debye-Hückel-Onsager equation	B.Sc.(P) Life Sciences Semester III B.Sc(H) Chemistry Semester V	Core Course III CHHT 513 PHYSICAL CHEMISTRY IV
	Practical:	Determination of CST and effect of Impurities on CST Chromatographic separation of amino acids Determination of CST and Effect of impurities on CST	B.Sc(H) Chemistry Semester III B.Sc(H) Biological Sciences ,Semrester I GE(III)	Core Course VII BS – C1 Conductance, electrochemistry, biomolecules

SEPTEMBER	**Theory:**	Conductometric titrations **ELECTROCHEMISTRY:** Reversible and Irreversible cells, concept of EMF, Nernst equation, types of electrodes, standard electrode potential, electrochemical series, thermodynamics of a reversible cell, Calculation of thermodynamic properties from EMF data,calculation of eequilibrium from emf data,concentration cells pH determination using Hydrogen electrodes and Quinhydrone electrode Debye-Falkenhagen effect, Walden's rules. Ionic velocities, mobilities and their determinations, transference numbers, ionic mobilities, determination of transference numbers using Hittorf and Moving Boundary methods. Applications of conductance measurement: (i) degree of dissociation of weak electrolytes, (ii) ionic product of water (iii) solubility and solubility product of sparingly soluble salts, (iv)conductometric titrations, and (v) hydrolysis constants of salts	B.Sc(P) Life Sciences Semester III B.Sc(H) Chemistry Semester V	Core Course III CHHT 513 PHYSICAL CHEMISTRY IV
	Practical	Construction of phase diagram for Eutectic mixture using cooling curve method. Determination of viscosity of unknown liquids, redox titration of oxalic acid versus Mohr's salt, Chromatographic separation of sugars Conductometric titrations of strong acid vs strong base Potentiometric titration of strong acid vs strong base. Compound analysis	B.Sc(H) Chemistry Semester III B.Sc(H) Biological Sciences GE(III)	Core Course VII BS – C1 Conductance, electrochemistry, biomolecules
OCTOBER	**Theory**	**PHASE EQUILIBRIUM:** Phases, components and degrees of freedom, criterion of phase equilibrium, thermodynamic derivation of Gibb's phase rule, Derivation of Clausius Clapeyron Equation, Phase diagram of one component systems **PHOTOCHEMISTRY:** Characteristics of electromagnetic radiation, Lambert-Beer's law and its limitations, physical significance of absorption coefficients. Laws, of photochemistry, quantum yield, actinometry, examples of low and high quantum yields,	B.Sc (P) Life Sciences Semester III B.Sc(H) Chemistry Semester V	Core Course III CHHT 513 PHYSICAL CHEMISTRY IV

	Practicals:	Potentiometric titrations of (i)strong acid versus strong base and(i) weak acid versus strong base Phase diagram for different Congruent melting point system	B.Sc(H) Chemistry Semester III	Core Course VII
		Redox titration of Mohr salt versus Potassium Dichromate solution, acid- base titration of carbobate, bicarbonate mixture with sodium hydroxide, Heat of neutraliasation determination	B.Sc(H) Biological Sciences	BS – C1
		Conductometric titrations of stong acid vs strobg base Potentiometric titration of stong acid vs strong base, Compound analysis	GE(III)	Conductance, electrochemistry, biomolecules
NOVEMBER	**Theory**	Phase diagram of two component systems involving eutectics, congruent and incongruent melting points **SOLUTIONS:** Ideal solutions and Raoult's law, deviation from Raoult's law and non- ideal solutions, Vapour pressure- composition curves, distillation of solutions, Lever Rule, Azeotropes Partial miscibility of liquids and effect of impurity on CST, immiscibility of liquids, Steam distillation, Nernst Distribution law, Solvent extraction	B.Sc(P) Life Sciences Semester III	Core Course III
		Photochemical equilibrium and the differential rate of photochemical reactions, photosensitized reactions, quenching. Role of photochemical reactions in biochemical processes, photo stationary states, chemiluminescence	B.Sc(H) Chemistry Semester V	CHHT 513 PHYSICAL CHEMISTRY IV

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Shikha Gulati

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Atomic Structure:** Recapitulation of Bohr's theory, its limitations and atomic spectrum of hydrogen atom. Wave mechanics: de Broglie equation, Heisenberg's Uncertainty Principle and its significance.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		Unit III: Environment and it's segments, Ecosystems.	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
	Practicals	(A) Titrimetric Analysis (i) Calibration and use of apparatus	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		(C) Inorganic preparations (i) Cuprous Chloride, Cu_2Cl_2	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
		Section A: Inorganic Chemistry - Volumetric Analysis 1. Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture.	Generic Elective-I	CHEMISTRY LAB: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS
	Tutorials	NA	NA	NA

AUGUST	**Theory:**	Schrödinger's wave equation, significance of ψ and ψ^2. Quantum numbers and their significance. Normalized and orthogonal wave functions. Sign of wave functions. Radial and angular wave functions for hydrogen atom. Radial and angular distribution curves. Shapes of *s*, *p*, *d* and *f* orbitals. Pauli's Exclusion Principle, Hund's rule of maximum multiplicity, aufbau principle and its limitations. **Periodicity of Elements:** Brief discussion of the following properties of the elements, with reference to *s* & *p*-block and the trends shown: (a) Effective nuclear charge, shielding or screening effect, Slater rules, variation of effective nuclear charge in periodic table. (b) Atomic and ionic radii (c) Ionization enthalpy, Successive ionization enthalpies and factors affecting ionization enthalpy and trends in groups and periods.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

		Biogeochemical cycles of carbon, nitrogen and Sulfur. Air Pollution: Major regions of atmosphere. Chemical and photochemical reactions in atmosphere. Air pollutants: types, sources, particle size and chemical nature; Photochemical Smog: its constituents and photochemistry,	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
	Practicals:	(ii) Preparation of solutions of titrants of different Molarity/Normality (B) Acid-Base Titrations Principles of acid-base titrations to be discussed. (i) Estimation of sodium carbonate using standardized HCl. (ii) Estimation of carbonate and hydroxide present together in a mixture.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		2. Estimation of oxalic acid by titrating it with $KMnO_4$. 3. Estimation of water of crystallization in Mohr's salt by titrating with $KMnO_4$. 4. Estimation of Fe (II) ions by titrating it with $K_2Cr_2O_7$ using internal indicator.	Generic Elective-I	CHEMISTRY LAB: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS

Practicals:	**Inorganic preparations** (iii) Aluminium potassium sulphate $KAl(SO_4)_2.12H_2O$ (Potash alum) or Chrome alum. **A) Iodo / Iodimetric Titrations** (i) Estimation of Cu(II) and $K_2Cr_2O_7$ using sodium thiosulphate solution (Iodometrically).	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
Tutorials:	NA	NA	NA

SEPTEMBER	**Theory:**	(d) Electron gain enthalpy and trends in groups and periods. (e) Electronegativity, Pauling's/ Allred Rochow's scales. Variation of electronegativity with bond order, partial charge, hybridization, group electronegativity. **Chemical Bonding:** (i) *I onic bond:* General characteristics, types of ions, size effects, radius ratio rule and its limitations. Packing of ions in crystals. Born-Landé equation with derivation and importance of Kapustinskii expression for lattice energy. Madelung constant, Born-Haber cycle and its application, Solvation energy. (ii) *Covalent bond:* Lewis structure, Valence Bond theory (Heitler-London approach). Energetics of hybridization, equivalent and non-equivalent hybrid orbitals. Bent's rule, Resonance and resonance energy,	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

	Environmental effects of Ozone, Major sources of Air pollution Effects of air pollution on living organisms and vegetation, Controls of air pollution, Climate change, Green house effect, global warming. Techniques of measuring air pollutants.	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
Practicals:	(iii) Estimation of carbonate and bicarbonate present together in a mixture. (C) Oxidation-Reduction Titrimetry Principles of oxidation-reduction titrations (electrode potentials) to be discussed. (i) Estimation of Fe(II) using standardized KMnO4 solution	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
Practicals:	Estimation of antimony in tartar-emetic iodimetrically **Complexometric titrations using disodium salt of EDTA** (i) Estimation of Mg2+,	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II

	5. Estimation of Cu (II) ions iodometrically using $Na_2S_2O_3$. ***Section B: Organic Chemistry*** 1. Purification of OC by crystallisation (from water and alcohol) and distillation. 2. Criteria of purity: Determination of Mpt/Bpt	Generic Elective-I	CHEMISTRY LAB: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS
Tutorials:	NA	NA	NA
<u>Assignment :</u>	Atomic structure & Periodic properties	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

OCTOBER	**Theory:**	Molecular orbital theory. Molecular orbital diagrams of diatomic and simple polyatomic molecules N_2, O_2, C_2, B_2, F_2, CO, NO, and their ions; HCl (idea of s-p mixing and orbital interaction to be given). Formal charge, Valence shell electron pair repulsion theory (VSEPR), shapes of the following simple molecules and ions containing lone pairs and bond pairs of electrons: H_2O, NH_3, PCl_3, PCl_5, SF_6, ClF_3, I_3^-, BrF_2^+, PCl_6^-, ICl_2^- ICl_4^- and SO_4^{2-}. Multiple bonding (ζ and π bond approach) and bond lengths. Covalent character in ionic compounds, polarizing power and polarizability. Fajan's rules and consequences of polarization. Ionic character in covalent compounds: Bond moment and dipole moment. Percentage ionic character from dipole moment and electronegativity difference.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

		_ Water Pollution: Hydrological cycle, water resources, aquatic ecosystems, Sources and nature of water pollutants, Techniques for measuring water pollution,	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
	Practicals:	(i) Estimation of oxalic acid using standardized KMnO4 solution (ii) Estimation of oxalic acid and sodium oxalate in a given mixture. (iii) Estimation of Fe(II) with K2Cr2O7 using internal indicator (diphenylamine, Nphenylanthranilic	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		(i) Estimation of Mg2+, Zn2+ (ii) Estimation of Ca2+ by substitution method	B.Sc.(H) Chemistry	CHEMISTRY - C V: INORGANIC CHEMISTRY II
		3.Detection of extra elements (N, S, Cl, Br, I) in organic compounds 4.Separation of mixtures by Chromatography: Measure the Rf value in each case (combination of two compounds to be given)	Generic Elective-I	CHEMISTRY LAB: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS
	Tutorials:	NA	NA	NA
	<u>Test</u>	Atomic structure & Periodic properties	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

		Environmental Chemistry	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
NOVEMBER	**Theory:**	(iii) *Metallic Bond:* Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids. (iv) *Weak Chemical Forces:* van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interaction. Hydrogen bonding (theories of hydrogen bonding, valence bond treatment). Effects of weak chemical forces, melting and boiling points, solubility, energetics of dissolution process.	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I
		Impacts of water pollution on hydrological and ecosystems. Water purification methods	B.Sc.(H) Chemistry	Paper 20-CHHT 514: Biochemistry and Environmental Chemistry
	Practicals:	(iii) Estimation of Fe(II) with K2Cr2O7 using Nphenylanthranilic acid) and discussion of	B.Sc.(H) Chemistry	CHEMISTRY - C I: INORGANIC CHEMISTRY-I

		(a)Identify and separate the components of a given mixture of 2 amino acids (glycine, aspartic acid, glutamic acid, tyrosine or any other amino acid) by paper chromatography (b)Identify and separate the sugars present in the given mixture by paper chromatography.	Generic Elective-I	CHEMISTRY LAB: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS
	Tutorials:	NA	NA	NA

Department of Mathematics
Sri Venkateswara College
Odd Semester Teaching Plan (July-November 2016)

MS. SHAKUNTLA WADHWA

Month		Topics	Course	Paper
JULY	**Theory**	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	Algebra
	Tutorials	Solve various exercises 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	Algebra
	Practicals	Introduction to Mathematica and Calculus Practical. Plotting of graphs of functions of type ax, a € R , [x](greatest integer function), x^n(n even and odd positive integer), x^{-n}(n even and odd positive integer), $x^1/^n$(n a positive integer) , …sin(ax+b), cos(ax+b), log(ax+b), 1/(ax+b), ... Discuss the effect of a and b on the graph on the graph	B.Sc(H)Maths Sem-I	Calculus
	Practicals	Introduction to Latex and Html,	B.Sc(H)Maths	Latex and HTML
		Discuss html document; tag, head, body, title, heading, paragraph, title, list, creating simple web page related to above topics. Giving assignments and taking lab test	Sem-III A	
AUGUST	**Theory**	Systems of linear equations, row reduction and echelon forms, vector equations, the matrix equation Ax = b, solution sets of linear systems, applications of linear systems, linear independence. Introduction to linear transformations, Matrix of linear transformation	Sem-I	
	Tutorials:	Solve various exercise of Systems of linear equations, row reduction and echelon forms, vector equations, the		

		matrix equation Ax = b, solution sets of linear systems, applications of linear systems, linear independence. Introduction to linear transformations and Matrix of a linear transformation,		
	Practicals	(2). Plotting the graphs of polynomials 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.	B.Sc(H)Maths Sem-I	Calculus
		Giving Assignment related to above topics		
		Html style , Html list, html block , html table, html link, html images, insert pdf creating webpage related to above topics	B.Sc(H)Maths	Latex and HTML
		And solving exercises questions from 5 to 11 . and giving assignment and taking 2 lab tests	Sem-III A	
SEPTEMBER	**Theory:**	Inverse of a matrix, Characterisation of invertible matrices, Subspaces of Rn, Rank of a matrix, eigen values, eigen vectors, Characteristic equation	B.Sc(H)Maths	Algebra
	Tutorials:	Solve various exercises related to inverse of a matrix, characterizations of invertible matrices. Subspaces of Rn, dimension of subspaces of Rn and rank of a matrix, Eigen values, Eigen Vector, Characteristic equation of a matrix		
	Assignment	Plan to Give Assignment Related to 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 ploting of finite and infinite subset of R and to solve different Questions, To take LabTest Giving Assignment related to above topics	B.Sc(H)Maths Sem-I	Calculus
	Practicals	Design of web pages, To discuss the element of latex, typesetting a simple document,	B.Sc(H)Maths	Latex and HTML

		To discuss command of sectioning ,assents mathematical symbol in latex, to type example of given books and solving exercises questions from given references books, giving assignment and taking lab test	Sem-III A	
OCTOBER	**Theory:**	Equivalence relations, Functions, Composition of functions, Invertible functions, One to one correspondence and cardinality of a set, Well-ordering	B.Sc(H)Maths	Algebra
	Tutorials	Solve questions related to 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		
	Test	To take internal Test		
	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)MathsSem-I	Calculus
	Practicals	Working Mathematical Typesetting , Arrays , Delimiters, Multiline formulas , Graphics ,PS trick, Plotting of functions in Latex, to type example of given books and solving exercises questions from given references books, giving assignment and taking lab test	B.Sc(H)Maths, Sem-III A	Latex and HTML
NOVEMBER	**Theory:**	Principles of Mathematical Induction, Statement of Fundamental Theorem of Arithmetic, Revision of syllabus	B.Sc(H)Maths Sem-I	Algebra

	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Characteristic Equation of a matrix. Solve various exercise of Principles of Mathematical Induction, statement of Fundamental Theorem of Arithmetic, discuss the previous years' questions papers		
	Practicals	(11).Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar form. (12).Take internal LabTest (13).Revise practical	B.Sc(H)Maths Sem-I	Calculus
	Practicals	Prepare Presentation , to type example of given books and solve exercises and questions from given references books, assignment and lab test	B.Sc(H)Maths	
			Sem-III A	Latex and HTML

Dr. R. K. BUDHRAJA

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to LPP, Graphical Method and Preliminaries to Simplex Method	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
	Practicals	LaTeX	B.Sc.(Hons) Maths II Sec B	Skill Enhancement Course SEC – 1/ LateX and HTML
	Tutorials	Formulation of LPPs, Question Based on Graphical Method	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
AUGUST	**Theory**	Preliminaries to Simplex Method, Theory of Games (Introduction, Saddle	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
	Practicals	LaTeX	B.Sc.(Hons) Maths II Sec B	Skill Enhancement Course SEC – 1/ LateX and HTML
	Tutorials	Questions based on Theory of Games	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
SEPTEMBER	**Theory**	Basic Feasible Solution and Nature. Basics of Simplex Method	B.Sc.(Hons) Maths III Sec B	V.4 / Linear Programming and Theory of Games

		Transportation Problem Assignment Problem	B.Sc.(Hons) Maths III Sec A and Sec B	
	Practicals	LaTeX and HTML	B.Sc.(Hons) Maths II Sec B	Skill Enhancement Course SEC – 1/ LateX and
	Tutorials	Examples of TP, AP and Theory of Games	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
	Assignment	TP and AP of Last Years' Question Papers	B.Sc.(Hons) Maths III Sec A and Sec B	V.4 / Linear Programming and Theory of Games
OCTOBER	**Theory**	Simplex Method, Big-M method, Two Phase Method and Proof of Theorems. Graphical Method and Relations of	B.Sc.(Hons) Maths III Sec B B.Sc.(Hons) Maths III	V.4 / Linear Programming and Theory of Games
	Practicals	HTML and Web Designing	B.Sc.(Hons) Maths II Sec B	Skill Enhancement Course SEC – 1/ LateX and
	Tutorials	Questions on Simplex Method On Theory of Games	B.Sc.(Hons) Maths III Sec B B.Sc.(Hons) Maths III	V.4 / Linear Programming and Theory of Games
	Test	TP, AP and Theory of Games	B.Sc.(Hons) Maths III Sec B	V.4 / Linear Programming and Theory of Games
NOVEMBER	**Theory**	Duality, Theorems and Results, Basic Duality Theorem Equivalence between	B.Sc.(Hons) Maths III Sec B	V.4 / Linear Programming and Theory of Games
	Practicals	HTML and Web Designing	B.Sc.(Hons) Maths II Sec B	Skill Enhancement Course SEC – 1/ LateX and HTML
	Tutorials	Questions on Duality	B.Sc.(Hons) Maths III Sec B B.Sc.(Hons) Maths III	V.4 / Linear Programming and Theory of Games

Dr. Mainak Mukherjee

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 exits or not as approaches to the given points. Find the limit, if it exists:		
	Tutorials	NA		
	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	B.Sc(H) Maths Sem-I	Calculus
	Theory	Introduction of Riemann	BA(P) Sem-V	Analysis
	Practicals	NA		
	Tutorials	NA		
AUGUEST	**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	B.Sc(H) Maths Sem-III	Multivariate Calculus

	Practicals:	(3.)To Draw the tangent plane to the following surfaces at the given point, (4). Use an incremental approximation to estimate the functions at the given point and compare it with calculated value. (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		
	Tutorials:	NA		
	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.	B.Sc(H) Maths Sem-I	Calculus
	Theory	Integrable functions	BA(P) Sem-V	Analysis
	Practicals-	NA		
	Tutorials	NA		

	Assignment :	Sequence and Series		
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	B.Sc(H) Maths Sem-III	Multivariate Calculus
	Practicals:	(8).To Discuss the limit of the functions when n tends to zero. (9). To discuss the limit of the following functions when tends n to infinity. (10). Discuss the continuity of the functions. (11). To Illustrate the geometric meaning of Rolle's theorem of the		
	Tutorials.	NA		
	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	B.Sc(H) Maths Sem-I	Calculus
	Theory	Properties of Riemann Integral ,	BA(P) Sem-V	
	Tutorials	NA		
	Practicals	NA		
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:	(13). To discuss uniform continuity of the functions: (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. (15). To locating points of relative & absolute extremum for different functions.		
	Tutorials	NA		
	Test	To take internal Test on partial differention , maxima , minima of two/three variables, lagragian		
	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,	B.Sc(H) Maths Sem-I	Calculus
	Theory	Introduction to Improper Integral	BA(P) Sem-V	Analysis
	Tutorials	NA		
	Practicals	NA		

NOVEMBER	**Theory:**	Stokes' theorem, The Divergence theorem	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		
	Tutorials:	NA		
	Practicals:	(11).Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar form. (12). To take internal Lab	B.Sc(H)Maths Sem-I	Calculus
	Theory	Beta and Gama functions	BA(P) Sem-V	Analysis
	Tutorials:	NA		
	Practicals:	NA		

Ms . Pratibha Gaur

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Graphs, Digraphs	B.Sc(H)Maths Sem-V -A and V -B	Differential equations and mathematical modelling-III
	Practials :	Introduction to Differential equations and mathematical modelling-III using *Matlab / Mathematica / Maple* etc. (1). Plotting of Legendre polynomial for n=1to n=5 in the interval [0,1].Verifying graphically that all the roots of $P_n(x)$ lie in the interval [0,1] and solving	B.Sc(H)Maths Sem-V-A and V-B	Differential equations and mathematical modelling-III
	Tutorials-:	To Discuss the doubt of students and to solve various exercise of Graphs and Digraphs.	B.Sc(H)Maths Sem –V A and V-B	Differential equations and mathematical modelling-III
	Theory	Tangents and normals,	BA(P) Sem-I	Calculus
	Practicals	NA	BA(P) Sem-I	Calculus
	Tutorials	NA	BA(P) Sem-I	Calculus
August	**Theory**	Graph Theory ; Networks and Sub graphs , Vertex Degree , Path and Cycles ,	B.Sc(H)Maths Sem-V-A and V-B	Differential equations and mathematical modelling-III
	Practials :	(2). Automatic Computation of coefficients in the series. (3). Plotting of the Bessel's function of first kind of order 0 to 3. (4) Automatic Frobenius method.	B.Sc(H)Maths Sem-V-A and V-B	Differential equations and mathematical modelling-III
	Tutorials	To Discuss the Doubt of students and to solve various exercise and applications of Graph Theory ; Networks and Sub graphs , Vertex Degree , Path and Cycles , Regular and Bipartite Graphs, Four	B.Sc(H)Maths Sem-V-A and V-B	Differential equations and mathematical modelling-III

	Theory	Tangents and normals, Curvature,	BA(P) Sem-I	Calculus
	Practicals	NA	BA(P) Sem-I	Calculus
	Tutorials	NA	BA(P) Sem-I	Calculus
SEPTEMBER	**Theory**	Graph Theory; Exploring and Travelling problems , Eulerian and Hamiltonian Graphs , Applications to Dominoes , Diagram Tracing Puzzles Knight's tour problem, Gray Codes	B.Sc(H)Maths Sem-V-A and V-B	Differential Equations and Mathematical Modelling -III

	Tutorials	To Discuss the Doubt of students and to solve various exercise and application of Graph Theory; Exploring and Travelling problems , Eulerian and Hamiltonian Graphs , Applications Dominoes , Diagram Tracing Puzzles Knight's tour		Differential equations and mathematical modelling-III
	Practials :	(5)Random number generation and then use it for following. (a). Simulate area under a curve. (b). Simulate volume under a surface (6). Programming of the Queening model		Differential equations and mathematical modelling-III
	Assignment	To give assignment related to syllabus to be covered		Differential equations and mathematical modelling-III
	Practials :	(5) Random number generation and then use it for following (a). Simulate area under a curve. (b). Simulate volume under a surface (6). Programming of the Queening model	B.Sc(H)Maths Sem-V-B	Differential equations and mathematical modelling-III
	Theory	Asymptotes	BA(P) Sem-I	Calculus
	Practicals	NA	BA(P) Sem-I	Calculus
	Tutorials	NA	BA(P) Sem-I	Calculus
OCTOBER	**Theory**	Monte Carlo Simulation Modelling; Simulating Deterministic behaviour (Area under a curve , volume under a surface), Generating random numbers ; middle square Method ,Linear congruence method ,Queuing Models; Harbor system	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Practicals:	Programming of simplex method for 2/3 variables. Giving Assignment related to above topics	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Monte Carlo Simulation Modelling; Simulating Deterministic behavior(Area under a curve , volume under surface), Generating random numbers ; middle square Method . Linear congruence	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Test	To take internal Test from the syllabus to		

	Theory	Singular points, Tracing of curves		
	Practicals	NA	BA(P) Sem-I	Calculus
	Tutorials	NA	BA(P) Sem-I	Calculus
	Assignments	Five Questions from each topics to be covered till October	BA(P) Sem-I	Calculus
NOVEMBER	**Theory**	Overview of optimization modelling ; Linear programming model : Geometric Solution , Algebraic solution , simplex method, sensitivity Analysis	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Practicals:	NA	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Overview of optimization modelling ; Linear programming model : Geometric Solution , Algebraic solution , simplex method, sensitivity Analysis.	B.Sc(H)Maths Sem-VA and V-B	Differential equations and mathematical modelling-III
	Theory	Revision of syllabus	BA(P) Sem-I	Calculus
	Practicals	NA	BA(P) Sem-I	Calculus
	Tutorials	NA	BA(P) Sem-I	Calculus

Ninian Nauneet Kujur

Month		Topics	Course	Paper Code/Name
July	**Theory**	Limits of functions (epsilon-delta approach), sequential criterion for limits,	B.Sc.(H) Mathes SEM III (B)	Theory of real functions (C5)
	Theory	Order completeness of Real numbers,	BA(P) SEM V	Analysis
	Practicals	1. Draw the surfaces and discuss whether limit exists or not as approaches to the given points. Find the limit, if it exists. 2. Use an incremental approximation to estimate the function s at the given point and compare it with calculated value.	B.Sc.(H) Maths SEM III (A)	Multivariate Calculus
	Practicals	(1).To Draw surfaces and find level curves at the given heights, (2).To draw the surfaces and discuss whether limit exits or not as	B.Sc.(H) Maths SEM III (B)	Multivariate Calculus
	Tutorials	Exercise questions related to the concept of limits.	B.Sc.(H) Maths SEM III (B)	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	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)

	Theory	open and closed sets, limit point of sets, Bolzano Weirestrass Theorem, properties of continuous functions, uniform continuity Sequences, convergent and	BA(P) SEM V	Analysis
	Practicals	3. Draw the regions D and check whether these regions are of type I or type II. 4. Discuss the limit of the functions when x tends to 0	B.Sc.(H) Maths SEM III (A)	Multivariate Calculus
	Practicals:	To Draw the tangent plane to the following surfaces at the given point, (4). Use an incremental approximation to estimate the functions at the given point and compare it with calculated value	B.Sc.(H) Maths SEM III (B)	Multivariate Calculus
	Tutorials:	Exercise questions related to limits and continuity	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)
	<u>Assignment :</u>	On Basics of limits.	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)

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	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)
	Theory:	limit superior and limit inferior of a sequence, monotonically increasing and decreasingsequences, infinite series and their convergences, positive term series , comparison tests. Cauchy's nth root test,	BA(P) SEM V	Analysis
	Practicals	5. Discuss the continuity of the functions. 6. Illustrate the geometric meaning of lagrange's mean value theorem of the functions on the given interval.	B.Sc.(H) Maths SEM III (A)	Multivariate Calculus
	Practicals:	(8).To Discuss the limit of the functions when n tends to zero. (9). To discuss the limit of the following functions when tends n to infinity.	B.Sc.(H) Maths SEM III (B)	Multivariate Calculus
	Tutorials:	Questions related to Uniform continuity and differentiability.	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)

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,	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)
	Theory:	Leibnitz 's test, absolute and conditional convergence Pointwise and uniform convergence of sequences and series of functions. Weirstrass M-Test, Uniform convergence and continuity. Statement of the results about uniform convergence and integrability or differentiability of functions. Power series and radius of convergence.	BA(P) SEM V	Analysis
	Practicals	7. 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)	Multivariate Calculus
	Practicals:	13). To discuss uniform continuity of the functions: (14). Verification of Maximum –Minimum theorem, boundedness theorem & intermediate value theorem for various	B.Sc.(H) Maths SEM III (B)	Multivariate Calculus
	Tutorials:	Questions based on mean value theorems, Taylor's and Lagrange's theorem	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)

November	**Theory:**	Taylor's series & Maclaurin's series expansions of exponential & trigonometric functions.	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)
	Theory:	Power series and radius of convergence. Fourier series Revision.	BA(P) SEM V	Analysis
	Practicals	To Revise whole Practical	B.Sc.(H) Maths SEM III (A)	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	B.Sc.(H) Maths SEM III (B)	Multivariate Calculus
	Tutorials:	Questions based on Cauchy form of remainder, expansions of various functions.	B.Sc.(H) Maths SEM III (B)	Theory of real functions (C5)

Amit Kumar

Month		Topics	Course	Paper Code/Name
July	**Theory**	Symmetries of a square, Dihedral groups, definition and examples of groups	B.sc Math(H) IIIA	ALGEBRA
	Tutorials	To Discuss the Doubt of students and to solve various exercise of Symmetries of a square, Dihedral groups, definition and examples	B.sc Math(H) IIIA	ALGEBRA
	Theory	The first derivative test, concavity and inflection points, Second derivative test, Curve sketching using first and second derivative test	B.Sc(H) Math Sem-I	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 and on the graph and to solve different	B.Sc(H) Math Sem-I	CALCULUS

August	**Theory:**	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 Math(H) IIIA	ALGEBRA
	Tutorias	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	B.sc Math(H) IIIA	ALGEBRA
	Theory	limits at infinity, graphs with asymptotes. Graphs with asymptotes, L'Hopital's rule, applications in business, economics and life sciences., Higher order derivatives, Applications of Leibnitz rule.Parametric representation of curves and tracing of parametric	B.Sc(H) Maths Sem-I	Calculus
	Assignmens	To be given assignment related to syllabus.	B.Sc(H) Maths Sem-I and Sem-III	Calculus /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.		Calculus
Septemb er	**Theory**	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,And test related to	B.Sc(H) Maths Sem-III	Algebra

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	B.Sc(H) Maths Sem-III	Algebra
Theory	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, Volumes by slicing; disks and washers methods, Volumes by cylindrical shells, Arc length, arc length of	B.Sc(H) Maths Sem-I	**Calculus**
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	B.Sc(H) Maths Sem-I	Calculus
Test	To take class test related to syllabus And class lab test related to above Practicals.	B.Sc(H) Maths Sem-I/IV	Calculus/Algebra

October	**Theory**	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	B.Sc(H) Maths Sem-III	Algebra
	Tutorials	To Discuss the Doubt of students and to solve various exerciseof Normal subgroups, factor groups, Cauchy's theorem for finite isomorphism,abelian groups.Group homomorphism,	B.Sc(H) Maths Sem-III	Algebra
	Theory	Introduction to vector functions and their graphs, operations with vector-valued functions, limits and continuity of vector functions, differentiation and integration of vector functions.Modeling ballistics and planetary motion, Kepler's second law. Curvature, tangential	B.Sc(H) Maths Sem-I	Calculus
	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,	B.Sc(H) Maths Sem-I	Calculus

	Test	To take internal test related to syllabus And internal lab test related to above Practicals.	B.Sc(H) Maths Sem-II/IV	Calculus/Algebra
Novmber	**Theory**	First, Second and Third isomorphism theorems and To Revised whole syllabus And , to Discuss last previous year questions	B.Sc(H) Maths Sem-III	Algebra
	Tutorials:	To Discuss the Doubt of students and to solve various exercise of Properties of isomorphism, First, Second and Third isomorphism theorems	B.Sc(H) Maths Sem-III	Algebra
	Theory:	Conic Section, Rotation of axes and second degree equations, classification into conics using the discriminant,Revise whole syllabus, to Discuss last previous year questions	B.Sc(H) Maths Sem-I	Calculus
	Practicals:	11).Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar form. (12). To take internal Lab	B.Sc(H) Maths Sem-I	Calculus

Nisha Bohra

Month		Topics	Cours	Paper Code/Name
JULY	**Theory**	Dual spaces, dual basis , Annhilators	Sem V	Algebra IV
	Practicals	Basics of Mathematica	Sem I	Calculus (C1)
	Tutorials			
AUGUST	**Theory:**	Diagonalization problem, eigen values, eigen vectors, characteristic polynomial, invariant subspaces, cayley Hamilton theorem	Sem V	Algebra IV
	Practicals:	Plotting and studying of graphs of function like polynomials, trigonometric functions, inverse of trigonometric functions, floor function, ceiling function etc. Plotting the graphs of polynomial of degree 4 and 5, the	Sem I	Calculus (C1)
	Tutorials:			
SEPTEMBER	**Theory:**	Minimal polynomial, Inner product spaces and norms, Gram Schmidt process, orthogon	Sem V	Algebra IV

		Orthogonal complement, bessel's inequality, adjoint of a linear operator, least square approximation, minimal solution		
	Practicals:	Sketching parametric curves, Tracing of conics in Cartesian coordinates, Obtaining surface of revolution of curves. Sketching ellipsoid, hyperboloid of one and two sheets, elliptic cone, elliptic paraboloid,	Sem I	Calculus (C1)
	Tutorials:			
	<u>Assignment :</u>			
OCTOBER	**Theory:**	Field extensions, algebraic extensions, characterization of extensions, splitting fields, zeroes of an irreducible polynomial, perfect fields, finite fields	Sem V	Algebra IV
	Practicals:	To find numbers between two real numbers and plotting of finite and infinite subset of R, Matrix operations (addition, multiplication, inverse, transpose, determinant, rank, eigenvectors, eigenvalues, Characteristic equation and verification of Cayley Hamilton equation, system of linear	Sem I	Calculus (C1)
	Tutorials:			
	<u>Test</u>			
NOVEMBER	**Theory:**	Classification of finite fields, constructible numbers, compass and straight edge constructions	Sem V	Algebra IV
	Practicals:	.Complex numbers and their representations, operations like addition, multiplication, division, modulus. Graphical representation of polar form.	Sem I	Calculus (C1)
	Tutorials:			

Mr. Sudhakar Yadav

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Symmetries of a square, Dihedral groups, definition and examples of groups including permutation groups.	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	Tutorials	To Discuss the doubt of students and to solve various exercise of Symmetries of a square, Dihedral groups, definition and examples of groups including permutation groups.	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	Theory	Automorphism, Inner Automorphism, Automorphism groups.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practicals:	Introduction to Latex and Html, To discuss html document as tag, head, body, title, heading, paragraph, title, list, creating simple web page related above topics. Giving assignment and taking lab test.	B.Sc(H)Maths Sem-III A	SEC-1 Latex and HTML
	Tutorials	To discuss the doubt of students and to solve various exercise of automorphism, inner automorphism, and automorphism groups.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practials :	Practical No.1-To Draw surfaces and find level curves at the given heights. Practical No.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	B.Sc(H)Maths Sem-IVB	C 7- Multivariate Calculus
AUGUST	**Theory**	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	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	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,	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I

	Theory	Automorphism groups of finite and infinite cyclic groups, applications of factor groups to automorphism groups.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practicals:	Html style , Html list, html block , html table, html link, html images, insert pdf creating webpage related to above topics And solving exercises questions from 5	B.Sc(H)Maths Sem-III A	SEC-1 Latex and HTML
	Tutorials	To discuss the doubt of students and to solve various exercise of automorphism groups of finite and infinite cyclic groups, applications of factor groups to automorphism groups.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practials :	Practical No.2-To draws the surfaces and discuss whether limit exits 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-IVB	C 7- Multivariate Calculus
SEPTEMBER	**Theory**	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-Group Theory-I

	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		
	Assignment	Plan to give assignment related to syllabus		
	Theory	Characteristic subgroups, Commutator subgroup and its properties.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practicals:	Design of web pages, To discuss the element of latex, typesetting a simple document, To discuss command of sectioning ,assents mathematical symbol in latex, to type example of given books and solving	B.Sc(H)Maths Sem-III A	SEC-1 Latex and HTML
	Theory	Two –phase method , Big M method and their comparison ,Duality, formulation of dual problem.	B.Sc(H)Maths Sem-V-A	Linear programming problems and Game theory
	Tutorials	To discuss the doubt of students and to solve various exercise of characteristic subgroups, commutator subgroup and its properties.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practials :	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-IVB	C 7- Multivariate Calculus
OCTOBER	**Theory**	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-Group Theory-I

	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,	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	Test	To take internal Test	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	Theory	Properties of external direct products, the group of units modulo n as an external direct product, internal direct	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practicals:	Working Mathematical Typesetting , Arrays , Delimiters, Multiline formulas , Graphics ,PS trick, Plotting of functions in Latex, to type example of given books and solving exercises questions from	B.Sc(H)Maths Sem-III A	SEC-1 Latex and HTML
	Test	To take internal Test	B.Sc(H)Maths Sem-V-A	Linear programming problems and Game theory
	Tutorials	To discuss the doubt of students and to solve various exercise of properties of external direct products, the group of	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practials :	Practical No.6-To draw the regions **D** and check whether these regions are of **Type I** or **Type II**:	B.Sc(H)Maths Sem-IVB	C 7- Multivariate Calculus
	Test	To give assignment related to above topics and To take internal Lab Test	B.Sc(H)Maths Sem-IVB	C 7- Multivariate Calculus
NOVEMBER	**Theory**	First, Second and Third isomorphism theorems and To Revise whole syllabus And , to Discuss previous year questions	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	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	B.Sc(H)Maths Sem-III-B	C6-Group Theory-I
	Theory	Fundamental Theorem of finite abelian groups.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practicals:	Beamer presentation , examples of given books and solving exercises questions from given references books, giving	B.Sc(H)Maths Sem-III A	SEC-1 Latex and HTML

	Tutorials	To discuss the doubt of students and to solve various exercise questions. To revise of Introduction to fundamental Theorem of finite abelian groups. Further, to discuss previous year questions papers.	B.Sc(H)Maths Sem-VIA	C6-Group Theory-I I
	Practials :	To revise whole practical		

SEMESTER WISE TEACHING PLAN
(2016-2017)

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Kanwar Singh **Department: Sanskrit**

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	SECTION 'A': VEDIC LITERATURE	B.A. 1ST YEAR (H)	C-2 CRITICAL SURVEY OF SANSKRIT LITERATURE
		SECTION 'A': INTRODUCTION TO SANSKRIT POETICS	B.A. 2ND YEAR (H)	C-6 POETICS AND LITERARY CRITICISM
		SECTION 'A': CONCEPTS AND BASIC FEATURES OF INDIAN NATIONALISM	B.A. 1ST YEAR (H) G.E.	GE-11 NATIONALISM AND INDIAN LITERATURE
	Tutorials	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		
AUGUST	**Theory:**	SECTION 'B': RAMAYANA	B.A. 1ST YEAR (H)	C-2 CRITICAL SURVEY OF SANSKRIT LITERATURE
		SECTION 'B': FORMS OF KAVYA-LITERATURE SECTION 'A': INDIAN SOCIAL	B.A. 2ND YEAR (H)	C-6 POETICS AND LITERARY CRITICISM C-7 INDIAN SOCIAL INSTITUTIONS AND POLITY

		SECTION 'C': STUDY OF SELECTED INSCRIPTIONS UNIT I, II	B.A. 3RD YEAR (H)	C-8 INDIAN EPIGRAPHY, PALEOGRAPHY AND CHRONOLOGY
		SECTION 'A': CONCEPTS AND BASIC FEATURES OF INDIAN NATIONALISM UNIT II	B.A. 1ST YEAR (H) G.E.	GE-11 NATIONALISM AND INDIAN LITERATURE
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		

	Assignment:	ASSIGNMENTS WILL BE GIVEN REGARDING THE TOPICS		
SEPTEMBER	**Theory:**	SECTION 'C': MAHABHARATA	B.A. 1ST YEAR (H)	C-2 CRITICAL SURVEY OF SANSKRIT LITERATURE
		SECTION 'C': SABDA-SAKTI (POWER OF WORD) AND RASA-SUTRA SECTION 'B':	B.A. 2ND YEAR (H)	C-6 POETICS AND LITERARY CRITICISM C-7 INDIAN SOCIAL INSTITUTIONS AND
		SECTION 'C': STUDY OF SELECTED INSCRIPTIONS UNIT III, IV	B.A. 3RD YEAR (H)	C-8 INDIAN EPIGRAPHY, PALEOGRAPHY AND CHRONOLOGY
		SECTION 'B': NATIONALISM AND CONCEPT OF 'RASTRA' IN SANSKRIT LITERATURE	B.A. 1ST YEAR (H) G.E.	GE-11 NATIONALISM AND INDIAN LITERATURE
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		
	Test	TESTS WILL BE TAKEN TIMELY.		
OCTOBER	**Theory:**	SECTION 'D': PURANAS	B.A. 1ST YEAR (H)	C-2 CRITICAL SURVEY OF SANSKRIT LITERATURE

		SECTION 'D': ALANKARAS (FIGURES OF SPEECH) SECTION 'C': INDIAN POLITY: ORIGIN AND	B.A. 2ND YEAR (H)	C-6 POETICS AND LITERARY CRITICISM C-7 INDIAN SOCIAL
		SECTION 'D': CHRONOLOGY UNIT I, II	B.A. 3RD YEAR (H)	C-8 INDIAN EPIGRAPHY, PALEOGRAPHY AND CHRONOLOGY
		SECTION 'C': RISE OF NATIONALISM AND MODERN INDIAN LITERATURE UNIT I	B.A. 1ST YEAR (H) G.E.	GE-11 NATIONALISM AND INDIAN LITERATURE
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		

NOVEMBER	**Theory:**	SECTION 'E': GENERAL INTROUCTION OF VYAKARANA, DARSANA AND	B.A. 1ST YEAR (H)	C-2 CRITICAL SURVEY OF SANSKRIT LITERATURE
		SECTION 'E': CHANDASA (METRE) SECTION 'D': CARDINAL THEORIES	B.A. 2ND YEAR (H)	C-6 POETICS AND LITERARY CRITICISM C-7 INDIAN SOCIAL INSTITUTIONS AND POLITY
		SECTION 'D': CHRONOLOGY UNIT III	B.A. 3RD YEAR (H)	C-8 INDIAN EPIGRAPHY, PALEOGRAPHY AND CHRONOLOGY
		SECTION 'C': RISE OF NATIONALISM AND MODERN INDIAN LITERATURE UNIT II	B.A. 1ST YEAR (H) G.E.	GE-11 NATIONALISM AND INDIAN LITERATURE
	Tutorials:	TUTORIALS REGARDING THE TOPICS WILL BE TAKEN.		

SEMESTER WISE TEACHING PLAN (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Geeta Jayaram Sodhi **Department: Sociology**

Semester : I

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	1.1 Thinking Sociologically	B.A.(H) Sociology	CC 1 – Introduction to Sociology-1
	Practicals	NA		
	Tutorials	---		
AUGUST	**Theory:**	1.1 Thinking Sociologically 1.2 Emergence of Sociology 2.2 Sociology and Psychology 2.3 Sociology and History	-do-	-do-
	Practicals:			
	Tutorials:	1.1 Thinking Sociologically 1.2 Emergence of Sociology 2.2 Sociology and Psychology	-do-	-do-

SEPTEMBER	**Theory:**	2.1 Sociology and Social Anthropology 3.2 Associations and Institutions 3.4 Social Change	-do-	-do-
	Practicals:			
	Tutorials:	2.2 Sociology and Psychology 3.2 Associations and Institutions	-do-	-do-
	Assignment :	On 1.1 Thinking Sociologically/ 1.2 Emergence of Sociology/2.1 Sociology and Social Anthropology	-do-	-do-
OCTOBER	**Theory:**	3.3 Culture and Society 3.1 Individual and Group	-do-	-do-
	Practicals:			
	Tutorials:	3.4 Social Change 3.3 Culture and Society	-do-	-do-
	Test	On topics 1.1 to 2.3	-do-	-do-
NOVEMBER	**Theory:**	3.1 Individual and Group	-do-	-do-
	Practicals:			
	Tutorials:	3.1 Individual and Group	-do-	-do-

SEMESTER WISE TEACHING PLAN (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr. Geeta Jayaram Sodhi**

Department: **Sociology** **Semester : V**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	1.1 Industrialisation	B.A. (H) III	Paper XV- Industrial Sociology (Optional)
	Practicals			
	Tutorials	----	-do-	-do-
AUGUST	**Theory:**	1.1 Industrialisation 1.2 Industrialism 1.3 Post-Industrial Society	-do-	-do-
	Practicals:			
	Tutorials:	1.1 Industrialisation 1.2 Industrialism	-do-	-do-

	Assignment :	On 1.1 Industrialisation/ 1.2 Industrialism	-do-	-do-
SEPTEMBER	**Theory:**	1.4 Information Society 32 Informal Sector 2..1 Industrial Bureaucracy 2.2 Alienation	-do-	-do-
	Practicals:			
	Tutorials:	1.3 Post-Industrial Society 32 Informal Sector 2..1 Industrial Bureaucracy 2.2 Alienation	-do-	-do-
	Test	Project on 'Informal Sector'	-do-	-do-
OCTOBER	**Theory:**	2.2 Alienation 2.3 Industrial Conflict 3.1 Labour Policy	-do-	-do-
	Practicals:			
	Tutorials:	2.2 Alienation 2.3 Industrial Conflict 3.1 Labour Policy	-do-	-do-

NOVEMBER	**Theory:**	3.3 Impact of Globalisation	-do-	-do-
	Practicals:			
	Tutorials:	3.3 Impact of Globalisation	-do-	-do-

SEMESTER WISE TEACHING PLAN (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Subas C Mohapatra

Department: Sociology

Semester: III

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Sociology of religion; meaning and scope	Discipline Specific Elective- 02	Religion and Society
	Practical	NA	NA	NA
	Tutorial	Sociology of religion; meaning and scope	Discipline Specific Elective- 02	Religion and Society
AUGUST	**Theory**	Sociology of Religion: Nature and scope Sacred and profane Religion and Rationalizatiom	Discipline Specific Elective- 02	Religion and Society
	Practical	NA	NA	NA
	Tutorial	Sociology of Religion: Nature and scope Sacred and profane Religion and Rationalizatiom	Discipline Specific Elective- 02	Religion and Society

SEPTEMBER	**Theory**	Rites of Passage Hinduism Budhism	Discipline Specific Elective- 02	Religion and Society
	Practical	NA	NA	NA
	Tutorial	Rites of Passage Hinduism Budhism	Discipline Specific Elective- 02	Religion and Society
	Assignment (10 Marks)	Sociology of Religion: Nature and scope Sacred and profane Religion and Rationalizatiom	Discipline Specific Elective- 02	Religion and Society
OCTOBER	**Theory**	Islam Jainism Sikhism Christianity	Discipline Specific Elective- 02	Religion and Society
	Practical	NA	NA	NA
	Tutorial	Islam Jainism Sikhism Christianity	Discipline Specific Elective- 02	Religion and Society
	Mid-SemesterExamination (10Marks)	---------- Islam, Jainism Sikhism,Christianity		Religion and Society

NOVEMBER	**Theory**	Communalism and secularism	Discipline Specific Elective- 02	Religion and Society
	Practical	NA	NA	NA
	Tutorial	Communalism and secularism	Discipline Specific Elective- 02	Religion and Society

SEMESTER WISE TEACHING PLAN (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Subas C Mohapatra **Department: Sociology**

Semester: I

Month		Topic(s)	Course	Paper Code/Name
JULY	**Theory**	Karl Marx Materialistic Conception of History	B.A. Programme Core Course-03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Historical materialism	Core Course-03	Sociological Theories
AUGUST	**Theory**	Class and Class Struggle	Core Course-03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Class and Class struggle	Core Course-03	Sociological Theories
SEPTEMBER	**Theory**	Emile Durkheim Forms of solidarity and Social fact	Core Course-03	Sociological Theories

	Practical	NA	NA	NA
	Tutorial	Emile Durkheim Forms of Solidarity and Social fact	Core Course-03	Sociological Theories
	Assignment (10Marks)	Division of labor / Historical Materialism	Core Course-03	Sociological Theories
OCTOBER	**Theory**	Max Weber Ideal Type and Social Action	Core Course-03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Max Weber Ideal Type and Social Action	Core Course-03	Sociological Theories
	Mid-SemesterExamination (10Marks)	Topics: Karl Max, E. Durkheim, Max Weber	Core Course-03	Sociological Theories
NOVEMBER	**Theory**	Max Weber on Types of Authority	Core Course-03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Max Weber on Types of Authority	Core Course-03	Sociological Theories

SEMESTER WISE TEACHING PLAN (2016-17)

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
	Assignment	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
	Mid-Semester Examination	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 (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. ABHIJIT KUNDU

Department: Sociology

Semester: V

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
	Assignment	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 Durkheim	Same	Same
	Mid-Semester Examination		Same	Same

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

SEMESTER WISE TEACHING PLAN (2016-17)

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 colonial discourse	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>Test/Project</u>	Essay/review on the documentary film Bom (2012, India) (Dir: Amlan Dutta) screened in college. It is about development and democracy in a remote Himalayan village	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 (2016-17)

ODD SEMESTER

SRI VENKATESWARA COLLEGE

Name of the Faculty: Nabanipa Bhattacharjee

Department: Sociology

Semester: III

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Interface of the social and the religious; understanding the religious	Core Course 06	Sociology of Religion
	Practical	NA	NA	NA
	Tutorial	Durkhemian 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

	Assignment	In the light of Durkheim's work, analyze the interface between social and religious	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
	Test/Project	Photo essay on the theme: "Religious Practices"; the student has to the take a photo on the theme and write an analytical essay on it	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

NOVEMBER	**Theory**	Maussian reading of prayer; craft of religious; body and the religous	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 (2016-17)

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 (2016-17)

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
	Mid Sem Exam	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
	Assignment	Class Presentations and Viva Topics: Chipko, Narmada, Anti-mining, Seed.	DSE 03	

SEMESTER WISE TEACHING PLAN (2016-17)

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	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Practical	NA	NA	NA

	Tutorial	Critically looking at concepts of Brahmanical Ideology and Regional Identities -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	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
SEPTEMBER	**Theory**	-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	-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 Insitutions: -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,	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities
	Mid-Semester Examination	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	B. A. (Hons.) Generic Elective 01	Indian Society: Images and Realities

SEMESTER WISE TEACHING PLAN (2016-17)

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**	Sociological Theories: Karl Marx: - Materialist conception of history	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Historical materialism dialectical materialism	B. A. (Prog.) Core Course 03	Sociological Theories
AUGUST	**Theory**	Karl Marx contd. -Class and Class struggle Emile Durkheim: An introduction	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Class struggle and class consciousness Functionalism and Durkheim	B. A. (Prog.) Core Course 03	Sociological Theories

SEPTEMBER	**Theory**	Emile Durkheim The Rules of Sociological Method -Forms of solidarity Mechanical and organic Division of labour and functional interdependence	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Introducing Durkheim's works and his functionalist perspective by looking at the construction of social facts, the comprehension of society as being based on forms of soliadarity and collective consciousness	B. A. (Prog.) Core Course 03	Sociological Theories
	<u>Assignment</u>	Elaborate on how Durkheim explains how forms of solidarity correspond to changing social structures and division of labour.	B. A. (Prog.) Core Course 03	Sociological Theories

OCTOBER	**Theory**	Max Weber: Interactionalist Perspective Ideal types,	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Subjective approach to social action, Construction of Ideal types	B. A. (Prog.) Core Course 03	Sociological Theories
	Mid-Semester Examination	Write a note on the Weberian theory of social action.	B. A. (Prog.) Core Course 03	Sociological Theories
NOVEMBER	**Theory**	Max Weber: Types of Authority	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Authority, power	B. A. (Prog.) Core Course 03	Sociological Theories

SEMESTER WISE TEACHING PLAN (2016-17)

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**	Research in Social Sciences Research Design -Concepts, Hypotheses,	B. A. (Prog.) SEC 01	Techniques of Social Research
	Practical	NA	NA	NA
	Tutorial	What is research Take-away assignments: -Observation and descriptive note-taking	B. A. (Prog.) SEC 01	Techniques of Social Research
AUGUST	**Theory**	Research design contd. Measurements, reliability and validity qualitative and quantitative research Surveys and Ethnographies	B. A. (Prog.) SEC 01	Techniques of Social Research
	Practical	NA	NA	NA
	Tutorial	Take-away assignments: -Design a survey -Define the concepts used -How do you frame the questions?	B. A. (Prog.) SEC 01	Techniques of Social Research

SEPTEMBER	**Theory**	Data collection: Observation Participant observation Fieldnotes and survey data Focus group discussion	B. A. (Prog.) SEC 01	Techniques of Social Research
	Practical	NA	NA	NA
	Tutorial	Carry out a structured interview Look at NSS data and write notes on the themes of how you can interpret the data.	B. A. (Prog.) SEC 01	Techniques of Social Research
	Assignment	Design a survey on factors effecting marriage choices of young people. OR Visit a bus stop/ market/area outside the metro station and observe all that happens for an hour or more and write a descriptive note on it.	B. A. (Prog.) SEC 01	Techniques of Social Research

OCTOBER	**Theory**	NA (Course was shared with another faculty, who covered the second half of the syllabus)	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	NA	B. A. (Prog.) Core Course 03	Sociological Theories
	Mid-Semester Examination	-	B. A. (Prog.) Core Course 03	Sociological Theories
NOVEMBER	**Theory**	NA	B. A. (Prog.) Core Course 03	Sociological Theories
	Practical	NA	NA	NA
	Tutorial	Declaration of IA results	B. A. (Prog.) Core Course 03	Sociological Theories

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Amit Vashishtha

Department: Botany **Semester : I,III,V**

Month		Topics	Course	Paper
JULY	**Theory**	1) Introduction to Biological Databases;	1)B.Sc. (H) Botany (V Sem)	1)Bioinformatics (LSPT409)
		2) An overview of cells: History, cell theory, overview of prokaryotic and Eukaryotic Cell	2) B.Sc. (H) Biological Science (III sem)	2)Concept of cell Biology (BS-C6)
		4) An overview of cells: History, cell theory, overview of prokaryotic and Eukaryotic Cell	4) B.Sc. (H) Botany I sem	4)CCII Biomolecules and Cell Biology
	Practicals	2) Electron micrograph of Prokaryotic and Eukaryotic cell, Animal and Plant cell; plasma membrane, nucleus, chloroplast, Mitochondria, Golgi body, Lysosomes, SER and RER	2) B.Sc. (H) Biological Science (III sem)	2)Concept of cell Biology (BS-C6)
	Tutorials			
AUGUST	**Theory:**	1) Introduction to Biological Databases; Classification of Biological databases (Primary, secondary, composite and Integrated); Biological Database retrieval system; Introduction to NCBI and tools and databases at NCBI; Data retrieval tool: Entrez and submition tool: Bankit and Sequin	1)B.Sc. (H) BotanyV Sem	1)Bioinformatics (LSPT409)
		2) Endosymbiotic theory, Cell theory and exceptions of cell theory, Phase, Nucleus: Introduction, Nuclear envelope, Chromatin network, DNA packaging, Nucleolus;	2) B.Sc. (H) Biological Science (III sem)	2)Concept of cell Biology (BS-C6)
		3) General account about the microbes used as biofertilizers, Cynobacteria, *Azolla* and *Anabaena azolle* association, Nitrogen fixation, growth affecting factors, Cynobacteria and *Azolla* in Rice cultivation	3)B.Sc. Life Sciences III sem.	3)SEC: Biofertilizers
		4) Endosymbiotic theory, Cell theory and exceptions of cell theory, Phase, Nucleus: Introduction, Nuclear envelope, Chromatin network, DNA packaging, Nucleolus;	4) B.Sc. (H) Botany I sem	4)CCII Biomolecules and Cell Biology

	Practicals:	1) Nucleic acid databases: NCBI, DDBJ and EMBL; Protein databases: PIR and UniProt 2) Study different stages of mitosis by temporary preparations; Study different stages of meiosis by temporary preparations; Cytochemical staining of DNA by Fuelgen 3) Growing Azolla as biofertilizer in the lab; Isolation of *Anabaena* from *Azolla* leaf; Specimen of Azolla and Photograph of Arbuscules/Vesicles.	1)B.Sc. (H) Botany (V Sem) 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem.	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers
	Tutorials:			
SEPTEMBER	**Theory:**	1) Basic local alignment search tool (BLAST) and types of BLAST;Tools and databases at NCBI in Detail; Genbank, Why Sequence alignment?; Homologous sequence: Orthologous & paralogous sequence; Concept of sequence alignment; Gap and Gap Penalty; How can we get the best alignment?; 2) rRNA Processing, Nuclear Pore complex, Transport Across the nuclear pore; Nuclear Lamina; Plasma Membrane structure (Various Models) and functions; 3) Mycorrhizal association, Types of Mycorrhizal, Occurrence and distribution, Nutrient uptake mechanism, Isolation of AMF and Inoculum production. Rhizobium Isolation, identification, mass multiplication, carrier based inoculum, Actinorrhizal symbiosis 4) rRNA Processing, Nuclear Pore complex, Transport Across the nuclear pore; Nuclear Lamina;, Structure of nitrogenous bases, Structure and function of nucleotides, Types of Nucleic acids,	1)B.Sc. (H) Botany (V Sem) 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem. 4) B.Sc. (H) Botany I sem	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers 4)CCII Biomolecules and Cell Biology

	Practicals:	1) Nucleotide sequence retrieval from nucleotide databases and Retrieval of protein sequence by given nucleotide accession number by protein database. 2) Cytochemical staining of Polysaccharides by PAS; Cytochemical staining of Proteins by Bromophenol Blue; Cytochemical staining histones by fast green; Cytochemical staining of Mitochondria by Janus Green B 3) Spore (AMF) isolated from soil; Test for quality compost Leaf compost, vermicompost and farmyard manure by germination mustard seeds. Specimen/Photograph of Earthworm	1)B.Sc. (H) Botany (V Sem) 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem.	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers
	Tutorials:			
	Assignment :	Topic1: EMBL and DDBJ Topic2: Tools at NCBI Topic 3: Databases at NCBI 2)Cell molecules (micro and macro); 3)Future of Biofertilizers in India.	1)B.Sc. Boany (H) V Sem 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem.	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers
OCTOBER	**Theory:**	1) Similarity and distance method for sequence alignment; Pairwise and multiple alignment; CLUSTAL W and Muscle; Global and Local alignment; PAM and BLOSUM model; DOT Metrix Method; 2) Active and Passive Transport; Proton Pumps (Na-K; etc) Phagocytosis, Pinocytosis, exocytosis.; Viroids, Mycoplasma, Prions 3) *Azospirillum* and *Azotobactor*: Isolation, mass multiplication and carrier based inoculum; Vermicompost and Biocompost production method 4) Types of DNA (A, B and Z), Types of RNA and structure of tRNA; Plasma Membrane structure (Various Models) and functions; Active and Passive Transport;	1)B.Sc. Botany (H) V Sem 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem. 4) B.Sc. (H) Botany I sem	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers 4)CCII Biomolecules and Cell Biology

	Practicals:	1) Sequence alignment and construction of Phylogenetic tree; Gene annotation 2) Cytochemical Staining of RNA by Methyl Green Pyronin; Separation of Nucleic acid bases by paper chromatography; Identification and study of types of Cancer; Study ultrastructure of Cell (cell wall, primary and secondary pits, plasodesmata, gap junctions and tight junctions); TMV and Bacteripphase, Viroids, Prions Mycoplasma through EM 3) Test for pH, NO_3 and Organic matter of Vermicompost; Biocontrol Photograph-Pherohormones traps, Trichoderma, Tricogamma, Pseudomonas, Neem; Photograph of waste emphasizing the recycling biodegradable organic matter, Filed Report/ Project (Organic farming)	1)B.Sc. Botany (H) V Sem 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem.	1)Bioinformatics(LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers
	Tutorials:			
	<u>Test</u>	Unit 1, 2, 3, 4 and 5 (Except EMBL; DDBJ and Unit6) Unit 1,2,3,4&5	1)B.Sc. (H) V Sem 3) B.Sc. Life Sciences III sem.	1)Bioinformatics (LSPT409) 3)SEC: Biofertilizers
NOVEMBER	**Theory:**	1) EMBL and DDBJ 2) Cell molecules (Inorganic, building blocks and macromolecules) 3) Organic farming and biocontrol methods 4) Proton Pumps (Na-K; etc) endocytosis, exocytosis	1)B.Sc. Botany (H) V Sem 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem. 4) B.Sc. (H) Botany I sem	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers 4)CCII Biomolecules and Cell Biology
	Practicals:	1) Mock test 2) Microscopic techniques via photograph (Fluorescence, Autoradiography, positive and Negative staining, Freeze fracture, Freeze etching and Shadow Casting) 3) Mock test	1)B.Sc. (H) V Sem 2) B.Sc. (H) Biological Science (III sem) 3) B.Sc. Life Sciences III sem.	1)Bioinformatics (LSPT409) 2)Concept of cell Biology (BS-C6) 3)SEC: Biofertilizers
	Tutorials:			

SEMESTER WISE TEACHING PLAN
(July-Dec 2016)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Aditi Kothari-Chhajer

Department: BOTANY **Semester : I/III/V – III,V**

Month		Topics	Course	Paper
JULY	**Theory**	Origin of Cultivated Plants, Concept of Centre of Origin with reference to Vavilovs work	B.Sc. (H) Botany Sem III	CC-6
		Sex Determination-An Introduction and Types	B.Sc. (P) Life Sciences Sem V	
		Chromosomal Mutations- Deletion (causes, mechanism, Genetic and Cytological effects)	B.Sc. (H) Botany Sem V	GGHT-501
		Chromosomal Mutations- Deletion (causes, mechanism, Genetic and Cytological effects) Duplication (causes, mechanism, Genetic and Cytological effects)	B.sc. (H) Biol.Sc. Sem V	GGHT-501
	Practicals	Chi-Sqaure Analysis- Introduction and Problem Solving Exercises	B.Sc. (P) Life Sciences Sem V (Batch I)	
		Mycorhhiza- Ecto and Endo (Theory and Photographs), Bacteria (Fine structure, conjugation, Binary fission- through photographs)	B.Sc. (P) Life Sciences Sem I (Batch I)	CC-I
		Cereals – Wheat and Rice- Micro-chemical tests	B.Sc. (H) Botany Sem III	CC-6
	Tutorials			
AUGUST	**Theory:**	Plant Introductions – Primary and Secondary Introductions with Examples, Crop Domestication and Loss of Genetic Diversity, Evolution of new crops/varieties with examples, Importance of Germplasm Diversity	B.Sc. (H) Botany Sem III	CC-6
		Sex Determination in Humans, *Drosophila* and Plants	B.Sc. (P) Life Sci. Sem V	
		Chromosomal Mutations- Duplication (causes, mechanism, Genetic and Cytological effects), Inversion (causes, mechanism, Genetic and Cytological effects), Translocation (causes, mechanism, Genetic and Cytological effects) with examples from each class of aberrations.	B.Sc. (H) Botany Sem V	GGHT-501
		Chromosomal Mutations- Inversion (causes, mechanism, Genetic and Cytological effects), Translocation (causes, mechanism, Genetic and Cytological effects) with examples from each class of aberrations. Numerical Chromosomal aberrations- Aneuploidy – Introduction, Types , examples (downs, Turners, Kleinfeliters), Polyploidy- Introduction, Types, Examples (*Triticum, Raphanobrassica, Triticale, Gossypium*)	B.sc (H) Biol Sc. Sem V	GGHT-501

	Practicals:	• Gene Interactions using Rajma Seeds -9:7 -9:4:3 -12:3:1 -13:3- theory with examples and questions based on the interactions • Human Genetic Syndromes (Downs, Turners, Kleinfelters) • Practice questions on Chi-Square Analysis	B.Sc. (P) Life Sci. Sem V	
		• Black Pepper (Habit, Sections) • Clove (Habit, sections) • Fennel (Habit, Sections) • Coffee (Plant Specimen, beans)	B.Sc. (H) Botany Sem III	CC-6
		• Gram Staining (through photographs) • *Nostoc*-Vegetative and Reproductive structures through temporary preparations and permanent slides • *Chlamydomona*s-Electron micrographs • *Oedogonium*- Vegetative and Reproductive structures through temporary preparations and permanent slides • *Fucus* and *Vaucheria*- study thorugh permanent slides • *Polysiphonia*- Vegetative and Reproductive structures through temporary preparations and permanent slides	B.Sc. (P) Life Sciences Sem I	CC-I
	Tutorials:			
SEPTEMBER	**Theory:**	Oils and Fats- General Description, Classification, Extraction Methods, Uses and Health Implications of Oils and Fats. Botanical Names, Family and uses of Groundnut, Coconut, Linseed, *Brassica* Essential Oils- Comparision of Essential Oils with Fatty Oils. General Account, Different types of Extraction Methods and Uses of Essential Oils	B.Sc (H) Botany Sem III	CC-6
		Sex Linked Inheritance Introduction to OMICS: genomics, transcriptomics, proteomics, metabolomics Structural Genomics- An introduction to Sequencing Strategies	B.Sc. (P) Life Sciences	
		Numerical Chromosomal aberrations- Aneuploidy – Introduction, Types , examples (downs, Turners, Kleinfeliters), Polyploidy- Introduction, Types, Examples (*Triticum, Raphanobrassica, Triticale, Gossypium)* An introduction to Mutations (Hugo de Vries theory) Induced v/s Spontaneous Mutations Somatic v/s Germinal Mutations Detection of Muations- Attached X- method, ClB method of detection	B.Sc. (H) Botany Sem V	GGHT-501
		An introduction to Mutations (Hugo de Vries theory) Induced v/s Spontaneous Mutations Somatic v/s Germinal Mutations Epistasis (9:7;12:3:1; 9:3:4; 15:1; 13:3; 9:6:1) Biochemical, Lethal and Nutritional Mutations Detection of Muations- Attached X- method, ClB method of detection Chi- square analysis, laws of Probability Principles of Inheritance- Chromosomal theory of Inheritance	B.Sc (H) Biol Sciences Sem V	GGHT-501

	Practicals:	• Pedigree analysis- an Introduction, Types of Pedigrees, Pedigree analysis of haemophilia in Queen Victorias Family • Meiosis –*Allium cepa* buds, study of stages from temporary preparations and permanent slides • Practice of calculation of the gene Interactions using Rajma Seeds	B.Sc. (P) Life Sciences Sem. V	
		• Tea (Plant Specimens, Section cutting through tea leaves) • Coconut (T.S. Nut, Habit Sketch) • 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	B.Sc.(H) Botany Sem. III	CC-6
		• *Alternaria*- Specimens/Photographs, Tease Mounts • *Rhizopus*- Temporary mounts for asexual stages; Permanent slides of the sexual structures • *Pennicillium*- Temporary mounts for asexual stages; Permanent slides of the sexual structures • *Marchantia*- Morphology of thallus, WM Rhizoids, WM Scales, VS of thallus through gemma cup, WM Gemmae (temporary preparations); Permanent slides of –VS Antheidiphore, archegoniophore,LS Sporophyte • *Selaginella*- Morphology, WM Leaf with Ligule, WM Strobilus, WM Microsporophyll (temporary Preparations), TS Stem, LS Strobilus (Permanent slides) • *Equisetum*- Morphology, LS strobilus, WM Sporangiophore, WM Spores (temporary preparations), TS Internode, TS Rhizome (Permanent slides)	B.Sc.(P) Life Sciences Sem I	CC-1
	Tutorials:			
	<u>Assignment :</u>	Assigments collected from students	B.Sc. (H) Bio Sc Sem V	
		Assignment Topics allotted	B.Sc (H) Botany Sem III	
OCTOBER	**Theory:**	Structural Genomics-Sequencing strategies, Human Genome Project Functional Genomics	B.Sc (P) Life Sciences Sem V	
		Tobacco- Morphology, Processing, Uses and Health hazards Timber plants- Importance of Wood, Properties-moisture, seasoning and density	B.Sc. (H) Botany Sem III	CC-6
		Mutagens- Study of Physical and Chemical Mutagens, Molecular basis of Mutations with respect to UV Light, Chemical Mutagens (Base analogs, Acridine Dyes, 5-Bromo uracil, Nitrous Acids, alkylating Agents)	B.Sc (H) Botany Sem V	

		Binomial Theorem, Incomplete Dominance (flower color in 4'o' clock), co-dominance (MN Blood group) , Multiple alleles (ABO Blood Group, Bombay Phenotype, Fur coat color in Rabbit), Lethal alleles- Dominant and Recessive (Sickle Cell Anaemia, Huntingtons Disease), Mutagens- Study of Physical and Chemical Mutagens, Molecular basis of Mutations with respect to UV Light, Chemical Mutagens (Base analogs, Acridine Dyes, 5- Bromo uracil, Nitrous Acids, alkylating Agents)	B.Sc. (H) Biol Sc Sem V	
	Practicals:	• Color blindness –Ishiharas Chart • Study through Photographs- Sex Chromosomes in *Melandrium*, *coccinia*, Multivalents, Inversion Bridge, Laggards, Translocation ring (*Rhoeo)*, Barr Bodies	B.Sc (P) Life Sciences Sem V	
		• Soybean (habit, Fruit, seed structure, microchemical tests) • Groundnut (habit, Fruit, seed structure, microchemical tests) • Sugarcane (Habit Sketch, Cane juice, Microchemical tests) • Habit sketch of Rosa, Vetiveria, santalum and Eucalyptus • Specimens, photoraphs of tapping of Rubber • Tobacco-Specimens and Products	B.Sc. (H) Botany Sem III	CC-6
		• *Puccinia*- Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves, Tease mounts and sections of infected wheat, Permanent slides of both the hosts • *Agaricus*- Spcimens of button stage and full grown mushrooms, section through the gills (temporary preparation) • *Funaria*- WM Leaf, Rhizoids, Operculum, Peristome, annulus, spores (temporary slides) , Permanent slides showing antheridial and archegonial heads, LS capsule and protonema • *Cycas*- morphology, TS coralloid root, VS leaflet, VS microsporophyll, Wm spores (temporary prep), LS Ovule, TS Root (permanent slides)	B.Sc (P) Life Sciences Sem I	CC-I
	Tutorials:			
	<u>Test</u>	Scheduled for SBH		
NOVEMBER	**Theory:**	Functional Genomics	B.Sc (P) Life Sc Sem. V	
		Lethal, Nutritional Mutations	B.Sc (H) Botany Sem V	GGHT 501
		Timber plants -Study of teak and Pine	B.Sc (H) Botany Sem III	cc-6
		Pleiotropy (PKU, Cystic fibrosis)	B.Sc. (H) Biol Sc. Sem V	GGHT-501
	Practicals:	Revision of Meiosis	B.Sc. (P) Life Sc. Sem.V	
		• Specimens of *Digitalis*, *Papaver* and *Cannabis* • Tectona, Pinus- Specimen and TS of young stem	B.Sc (H) Botany Sem III	CC-6
		• *Pinus*- Study through permanent slides and temporary preparations • *Lichens*- Specimens	B.Sc (P) Life sc Sem I	CC-I

	Tutorials:			

SRI VENKATESWARA COLLEGE
SEMESTER WISE TEACHING PLAN

Name of the Faculty: Dr. Pooja Gokhale Sinha

Department: Botany **Semester: III**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Taxonomic hierarchy Concept of ranks and categories	B.Sc. (H) Botany	/BTHT-507 Plant Systematics and Evolution
	Practicals	Introduction to Taxonomic Terminology (Vegetative characters)	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
AUGUST	**Theory:**	Species Concept: Biological, Taxonomic, Nominalistic, Typological, Morphogeographical . Description, Advantages and disadvantages of all the	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
	Practicals:	Introduction to Taxonomic Terminology (Vegetative characters) Morphological and anatomical features of the following species: *Vinca rosea*, *Hibiscus rosa sinensis*	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
SEPTEMBER	**Theory:**	Introduction to chemotaxonomy Phylogeny of angiosperms:	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution

		All theories of the time and place of their origin. Theories related to their monophyletic or paraphyletic origin.		
	Practicals:	Morphological and anatomical features of the following species: *Hamelia, Sonchus Solanum nigrum Ocimum sanctum Euphorbis hirta Phyllanthus, Thevetia Tabernaemontana Tridax, vernonia,* Morphological features of families: Cannaceae, Asclepidiaceae, Cucurbitaceae, Poaceae,	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
OCTOBER	**Theory:**	Theories related to their monophyletic or paraphyletic origin	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
	Practicals:	*Thevetia Tabernaemontana Tridax, vernonia,* Morphological features of families: Cannaceae, Asclepidiaceae, Cucurbitaceae, Poaceae		
NOVEMBER	**Theory:**	Revision and discussion of previous years question papers	B.Sc (H) Botany	/BTHT-507 Plant Systematics and Evolution
	Practicals:	Poaceae		

SRI VENKATESWARA COLLEGE
SEMESTER WISE TEACHING PLAN

Name of the Faculty: Dr. Pooja Gokhale Sinha

Department: Botany **Semester: III**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to Ethnobotany	B.Sc. (H) Botany	SEC: Ethnobotany
	Practicals	Collection , identification and preparation of herbarium of three ethenobotanically important plants with appropriate references	B.Sc (H) Botany	SEC: Ethnobotany
AUGUST	**Theory:**	Methodology of Ethnobotanical studies a) Field work b) Herbarium c) Ancient Literature d) Archaeological findings e) temples and sacred places.	B.Sc (H) Botany	SEC: Ethnobotany
	Practicals:	Collection , identification and preparation of herbarium of three ethenobotanically important plants with appropriate references	B.Sc (H) Botany	SEC: Ethnobotany
SEPTEMBER	**Theory:**	Role of ethnobotany in modern Medicine	B.Sc (H) Botany	SEC: Ethnobotany

	Practicals:	Preparation of crude extract of ethenobotanically important plants with appropriate references (any method to be used)	B.Sc (H) Botany	SEC: Ethnobotany
OCTOBER	**Theory:**	Role of ethnobotany in modern medicine with special example of Rauvolfia sepentina, Trichopus zeylanicus, Artemisia,Withania.	B.Sc (H) Botany	SEC: Ethnobotany
	Practicals:	Preparation of crude extract of ethenobotanically important plants with appropriate references (any method to be used)		
NOVEMBER	**Theory:**	Ethnobotany and legal aspects	B.Sc (H) Botany	SEC: Ethnobotany

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Neeti Mehla

Department: Botany

Academic year: 2016-2017 **Semester: I/III/V**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	❖ Types of mutations- somatic, germinal, spontaneous, induced auxotropic, biochemical and lethal mutations. ❖ Sugar and starches – Morphology of sugar cane. ❖ Concept of Water potential	❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (III Sem) ❖ BSc. Botany (H) (V Sem)	❖ Genetics and Genomics ❖ Concepts of genetics ❖ Economic Botany ❖ Plant Physiology
	Practicals	❖ Introduction to Mendel's Monohybrid and Dihybrid ratio. Study of Gene interactions ratios 9:6:1,12:3:1 and 9:3:4 ratios using Rajmah seeds ❖ Determination of water potential of given tissue by gravimetric method	❖ Bsc. Botany (H) III Semester ❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (V Sem)	❖ Concepts of Genetics ❖ Genetics and genomics ❖ Plant Physiology
	Tutorials			
AUGUST	**Theory:**	❖ Types of mutations- back, suppressor, substitution and frameshift mutations. Effect of physical mutagens- ionizing and non-ionizing radiations. Effect of chemical mutagens- base analogs, 5 Bromo uracil, nitrous acid, acridines and alkylating agents. ❖ **Sugar and starch** Evolution, nobilisation and processing of ❖ sugarcane products and by-products of sugarcane industry, Potato- morphology, propagation (conventional, TPS) and its uses.	❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (III Sem) ❖ BSc. Botany (H) (V Sem)	❖ Genetics and Genomics ❖ Concepts of Genetics ❖ Economic Botany
		❖ Pathway of Water movement, concept of Symplast and Apoplast, Ascent of Sap and Transpiration		
	Practicals:		❖ Bsc. Botany (H) III	❖ Concepts of

		Gene interaction using rajma seeds, complementary genes and dominant epistasis (9/7, 13/3, 15:1). Pedigree analysis for dominant and recessive autosomal and sex-linked traits.	Semester ❖ BSc.Life Sciences (V Sem)	Genetics ❖ Genetics and genomics
		Determination of Osmotic potential of plant cell sap by plasmolytic method. Determination of Osmotic potential of given tissue by gravimetric method. Determination of water potential of potato tuber by density gradient method.	❖ BSc. Botany (H) (V Sem)	❖ Plant Physiology
	Tutorials:			
SEPTEMBER	**Theory:**	Detection of mutations- CLB method of mutation. Structural changes in chromosomes- Deletion-definition, causes, mechanism, genetic effects examples and significance. Duplication, inversion and translocation-definition, causes, mechanism, genetic effects, examples and significance. Numerical changes in chromosomes. Spices-listing of important spices, their family and part used and economic importance with special reference to fennel, saffron, clove and black pepper. Factors affecting transpiration, mechanism of stomatal movement, Antitranspirants and Guttation. Characterisation of Stress,response to water,high and low temperature and saline soil.Mechanism of Response.	❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (III Sem) ❖ BSc. Botany (H) (V Sem)	❖ Genetics and Genomics ❖ Concepts of Genetics ❖ Economic Botany ❖ Plant Physiology
	Practicals:	Multiple alleles – concept and mechanism, blood typing (A,B,O and Rh factor). Study of various genetic Disorders like Sickle cell Anemia, Xeroderma pigmentosum , Albinism and Red green color Blindness To study various divisional stages of Meiosis using Allium cepa flower buds ❖ Study of the effect of various environmental factors (light and velocity)	❖ Bsc .Botany (H) III Semester ❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (V Sem)	❖ Concepts of Genetics ❖ Genetics and genomics ❖ Plant Physiology

		on transpiration in an excised twig or leaf. To calculate the stomatal index and stomatal frequency in a mesophyte and a xerophyte. To calculate the area of an open stoma and percentage of leaf area open through stomata of mesophytic and xerophytic leaves.		
	Tutorials:			
	Assignment:	·		
OCTOBER	**Theory:**	❖ Numerical changes in chromosomes- euploidy, polyploidy- auto and allo polyploidy, mechanism, non-disjunction of chromosomes and examples- Triticale Gossipium Raphanobrassica, wheat and modern bread wheat. Aneuploidy- causes and mechanism, examples Datura spp., Down syndrome, Turner syndrome and klinefelter syndrome. Model organisms- E coli, Drosophila melanogaster, Arabidopsis thaliana. ❖ Cytoplasmic Inheritance- Chloroplast variegation In Chloroplast,Kappa particles in paramecium,shell coiling in snails and mitochondrial genetics.Classical versus molecular concept of gene,complementation and rII locus. ❖ Drug yielding plants- therapeutic and habbit forming drugs with special reference to Cinchona Digitalis Papaver and Cannabis. Fibres-Classification based on the origin of fibres only. Defense strategies of Plant system to fight against stress. Compatible solutes, enzymatic and non - enzymatic antioxidants and different morphological changes occurring in plants under stress.Translocation in the phloem- Structure ,function and relationship for translocation of photoassimilates from source to sink cells.	❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (III Sem) BSc. Botany (H) (V Sem)	❖ Genetics and Genomics ❖ Concepts of genetics ❖ Economic Botany ❖ Plant Physiology

	Practicals:	Study of Aneuploidy in humans- Down syndrome, Turner syndrome, Klinefeltor syndrome. Study of translocation ring and laggard, inversion bridge and mutlivalents. Meiosis from onion flower buds ❖ Study of the mechanism of stomatal opening and closing through set up. To demonstrate the phenomenon of bolting in any rosette plant. To demonstrate the phenomenon of suction due to transpiration.	❖ Bsc .Botany (H) III Semester ❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (V Sem) ❖	❖ Concepts of Genetics ❖ Genetics and genomics ❖ Plant Physiology
	Tutorials:			
	Test	Fixed after mid semester break	❖ BSc.Life Sciences (V Sem)	Genetics and Genomics
NOVEMBER	**Theory:**	❖ Comaparative genomics-homologue paralogue ,orthologue synteny.Comparative genomics of chimpanzees and humans. ❖ Population genetics Hardy Weinberg law,allele frequency,speciation, genetic drift etc. ❖ Evolution of cotton and jute (morphology extraction and uses) Physiology of Fruit Ripeninig ; Physiological and biochemical changes	❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (III Sem) BSc. Botany (H) (V Sem	❖ Genetics and Genomics ❖ Concepts of genetics ❖ Economic Botany ❖ Plant Physiology
	Practicals:	❖ Revision and Test ❖ Physiology project, revision and test. Human chromosome karyotyping and revision. ❖	❖ Bsc .Botany (H) III Semester ❖ BSc.Life Sciences (V Sem) ❖ BSc. Botany (H) (V Sem)	❖ Concepts of Genetics ❖ Genetics and genomics ❖ Plant Physiology
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Yogendra Kumar Gautam
Department: Botany **Semester : I/III/V**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Brief life history of Mendel and low of inheritance, Terminologies	B.Sc. Life Sc. (Sem: V)	LSPT-512 Genetics and Genomics.
		Discovery, general structure of viruses.	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity
	Practicals	Introduction to Mendel's Monohybrid and Dihybrid ratio, X2-test of dihybrid cross data	B.Sc. Life Sc. (Sem: V)	LSPP-512/Genetics and Genomics.
		Determination of stomatal frequency of leaf of given plant material	B.Sc. Life Sc. (Sem: V)	LSPP-511 /Dev. Bio. Plant Physiol.
		EM of T4 phage, TMV, Chlamydomonas and lytic and lysogenic life cycles of virus	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity
	Tutorials	----------		
AUGUST	**Theory:**	Chi Square,Pedigree Analysis, Multiple allelism, Chromosome theory of Inheritance. Gene interactions using 9:6:1, 12:3:1, 9:3:4 seed ratios	B.Sc. Life Sc. (Sem: V)	LSPT-512 Genetics and Genomics.
		Replication in DNA virus (T-phage);Lytic and lysogenic cycle, RNA virus (TMV); Economic importance of viruses.	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity
	Practicals:	Gene interactions using 9:6:1, 12:3:1, 9:3:4 seed ratios Pedigree analysis for dominant and recessive autosomal and sex linked traits	B.Sc. Life Sc. (Sem: V)	LSPP-512/Genetics and Genomics.
		Determination of stomatal index of leaf of given plant material Study the effect of light intensity on the rate of photosynthesis Study the effect of CO_2 concentration on the rate of photosynthesis	B.Sc. Life Sc. (Sem: V)	LSPP-511 /Dev. Bio. & Plant Physiology.
		Study of morphology, anatomy and V.S/L.S of reproductive organ in Marchantia	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity
	Tutorials:	----------		
SEPTEMBER	**Theory:**	Cytoplasmic Inheritance: Shell Coiling in Snail, Kappa particles in *Paramecium*, leaf variegation in *Mirabilis jalapa*, Male sterility, Crossing over: concept and significance, cytological proof of crossing over.	B.Sc. Life Sc. (Sem: V)	LSPT-512 Genetics and Genomics.
		Bacteria – Discovery,General characteristics and cell structure; Reproduction – vegetative, asexual and recombination(conjugation, transformation and transduction) Economic importance.	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity

	Practicals:	Gene interactions using rajma seeds. Complimentary genes and Dominant Epistasis (9:7, 13:3, 15:1) Pedigree analysis for hemophilia & colour blindness. Study of embryo sac showing egg apparatus by electron micrograph, Study of microsporogenesis through permanent slides,Study of Polygonum type of embryo sac by photographs Study of vegetative and reproductive structure of *Nostoc,Oedogonium* and *Polysiphonia.* *Funaria*-Morphology,w.m. leaf,rhizoids, operculum, spores and L.S capsule and permanent slides.	B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: I)	LSPP-512/Genetics and Genomics. LSPP-511 /Dev. Bio. & Plant Physiology. CC-Botany-I/Biodiversity
	Tutorials:	---------		
	Assignment :	Allotted to students from whole the syllabus.		
OCTOBER	**Theory:**	Linkage: concept & history, complete & incomplete linkage, bridges experiment, coupling & repulsion, recombination frequency Introduction to archegoniate, General characteristics, classification, Early land plants (Cooksonia and Rhynia). Classification, morphology, anatomy and reproduction of Selaginella, EquisetumandPteris.heterospory and seed habit, stelar evolution.Ecological and economical importance of Pteridophytes.	B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: I)	LSPT-512 Genetics and Genomics. CC-Botany-I/Biodiversity
	Practicals:	Study of meiosis in *Allium cepa*. Sex determination in *Melandrium*, Aneuploidy in Humans – Down's Syndrome, Turner's Syndrome and Klienfelter's Syndrome) through photograph. Demonstration of Hill's reaction from isolated chloroplast of leaves. Study the effect of environmental factor on the rate of transpiration using photometer. Study of Avena coleoptiles curvature test. *Selaginella*- morphology, w.m. leaf with ligule, t.s. stem, w.m. strobilus, w.m. microsporophyll and megasporophyll (temporary slides), l.s. strobilus (permanent slide). *Equisetum*- morphology, t.s. internode, l.s. strobilus, t.s. strobilus, w.m. sporangiophore, w.m. spores (wet and dry)(temporary slides); t.s rhizome (permanent slide).	B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: I)	LSPP-512/Genetics and Genomics. LSPP-511 /Dev. Bio. & Plant Physiology. CC-Botany-I/Biodiversity
	Tutorials:	---------		
	Test	Fixed the date after mid sem. break		
NOVEMBER	**Theory:**	linkage maps based on two factor crosses and Pleiotropism Classification , morphology, anatomy and reproduction of Marchantia and Funaria. Ecology and economic importance of bryophytes with special mention of Sphagnum.	B.Sc. Life Sc. (Sem: V) B.Sc. Life Sc. (Sem: I)	LSPT-512 Genetics and Genomics. CC-Botany-I/Biodiversity

Practicals:	Study of the following with the help of photographs: Sex chromosomes in *Melandrium/Coccinia*, Multivalents, Inversion bridge, Laggards, Translocation Ring (Rhoeo), Human Genetic Syndromes (Down's, Turner's, Klinefelter's), Barr Bodies. Mock test	B.Sc. Life Sc. (Sem: V)	LSPP-512/Genetics and Genomics.
	Demonstrate the activity of nitrate reductase in leaf discs. Demonstration of Physiology experiment set-up.	B.Sc. Life Sc. (Sem: V)	LSPP-511 /Dev. Bio. & Plant Physiology.
	Pteris- morphology, t.s. rachis, v.s. sporophyll, w.m. sporangium, w.m. spores(temporary slides), t.s. rhizome, w.m. prothallus with sex organs and young sporophyte(permanent slide). *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	B.Sc. Life Sc. (Sem: I)	CC-Botany-I/Biodiversity
Tutorials:	--------		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Pamil Tayal
Department: Botany **Semester: B.Sc. (H) I**
Paper: Bio-molecules and Cell Biology (CC II)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Structural organization of chloroplast, primary and accessory pigments		
	Practicals	1. Study of plant cell structure with the help of epidermal peel of Onion/ Crinum/ Rhoeo		
	Tutorials			
AUGUST	**Theory:**	Functions of chloroplast, Structural organization of mitochondria, genome of chloroplast and mitochondria (semi-autonomous nature) and functions of mitochondria, Krebs cycle		
	Practicals:	1. Qualitative test for carbohydrates, proteins, lipids and proteins 2. Demonstrate the phenomenon of protoplasmic streaming in Hydrilla leaf 3. Measurement of cell size by technique of micrometry		
	Tutorials:			
SEPTEMBER	**Theory:**	Golgi apparatus, its organization and functions, Lysosomes, Eukaryotic cell cycle, regulation of cell cycle, mitosis and meiosis		

	Practicals:	1. Counting the cells per unit volume with the help of haemocytometer 2. Study of cell and its organelles with the help of electron micrographs 3. Study the effect of plamolysis and deplasmolysis 4. Study the effect of organic solvent on membrane permeability		
	Tutorials:			
	<u>Assignment :</u>			
OCTOBER	**Theory:**	Role and structure of microtubules, microfilaments and intermediary filaments, structure of peroxisomes and its function		
	Practicals:	1. Study the effect of temperature on membrane permeability 2. Study of cell and its organelles with the help of electron		
	Tutorials:			
	<u>Test</u>			
NOVEMBER	**Theory:**	Structure of Endoplasmic Reticulum (RER and SER), functions of ER		
	Practicals:	1. Mock test		
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Pamil Tayal
Department: Botany **Semester: B.Sc. (H) V**
Paper: Bioinformatics LSPT-409

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to Bioinformatics, Aims and Scope of research in Bioinformatics		
	Practicals			
	Tutorials			
AUGUST	**Theory:**	Branches of Bioinformatics, Applications of bioinformatics in crop improvement, Classification of Databases, Swiss-Prot Introduction		
	Practicals:			
	Tutorials:			
SEPTEMBER	**Theory:**	Features of Swiss-Prot Database and file format, Protein Information resource Introduction and its resources, Databases of PIR and Data retrieval system, Introduction to Molecular Phylogeny		

	Practicals:			
	Tutorials:			
	<u>Assignment :</u>			
OCTOBER	**Theory:**	Molecular Phylogeny – Methods of phylogeny, Types of phylogenetic trees and their analysis, Softwares used for construction of phylogenetic trees, data prediction of trees		
	Practicals:			
	Tutorials:			
	<u>Test</u>			
NOVEMBER	**Theory:**	Structural Bioinformatics, Introduction and its role in drug discovery, Quantitative structure activity relationship technique and Microbial genome applications		
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Pamil Tayal
Department: Botany **Semester: B.Sc. (Life sciences) V**
Paper: Developmental Biology and Plant Physiology (LSPT-511)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction and scope of Developmental Biology, Structural organization of floral parts with their differentiation		
	Practicals	1. Study of microsporogenesis through permanent slides 2. Study of Polygonum type of embryo sac by photographs		
	Tutorials			
AUGUST	**Theory:**	Microsporogenesis – structure of anther, development and differentiation of microspore mother cells into pollen grains, unusual features of microsporogenesis. Megasporogenesis – development and differentiation of archesporial cells, types of embryo sac, structure and types of ovules		
	Practicals:	1. Study of embryo sac showing egg apparatus by electron micrograph 2. Determination of stomatal index of leaf of given plant material 3. Determination of stomatal frequency of leaf of given plant material 4. Study the effect of CO_2 concentration on the rate of photosynthesis		
	Tutorials:			
SEPTEMBER	**Theory:**	Pollination and its types, Fertilization events from germination of pollen grain to zygote formation, double fertilization, pollen-pistil interaction introduction		

	Practicals:	1. Study the effect of CO_2 concentration on the rate of photosynthesis 2. Study the effect of light intensity on the rate of photosynthesis 3. Study the effect of environmental factor on the rate of transpiration using potometer 4. Study of Avena coleoptiles curvature test		
	Tutorials:			
	<u>Assignment :</u>			
OCTOBER	**Theory:**	Sexual incompatibility – gametic and sporophytic, genetic basis of incompatibility, Transpiration, mechanism of opening and closing of stomata, micronutrients and their deficiency symptoms, role of mycorrhizal in mineral uptake		
	Practicals:	1. Demonstrate Hills reaction using crude extract of leaves 2. To study the effect of etheral application on fruit ripening 3. To demonstrate bolting in any rosette plant		
	Tutorials:			
	<u>Test</u>			
NOVEMBER	**Theory:**	Macronutrients and their deficiency symptoms		
	Practicals:	1. To demonstrate the delaying of leaf senescence by application of cytokinins 2. Mock test		
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Pamil Tayal
Department: Botany Semester: B.Sc. (H) Biological Sciences V
Paper: Defense Mechanisms (BIST-501)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to defense mechanisms in plants, disease pyramid, classification of diseases		
	Practicals	1. Characterization of disease symptoms caused by bacteria, fungi and viruses		
	Tutorials			
AUGUST	**Theory:**	Causes and significance of plant diseases, diseases cycle, preexisting structural and chemical barriers, induced structural and chemical barriers, Plantibodies		
	Practicals:	1. Identification of pathogenic organisms 2. Survey of structural plant defenses in SVC campus (cuticle, wax, lignin, bark, thorn, prickles, trichomes) 3. Set up-Immuno-diffusion (DID, SRID)		
	Tutorials:			
SEPTEMBER	**Theory:**	Effect of environmental factors on disease development, Regulatory, cultural, physical and chemical methods of disease control, Disease Control by Immunization or improvement of host resistance		

	Practicals:	1. Survey of secondary metabolites to play role in plant defenses in SVC campus 2. Quantification of secondary metabolites 3. Set up – Immunoelectrophoresis (IEP – countercurrent and Rocket)		
	Tutorials:			
	Assignment :	Collection of five diseased crop plants from Delhi fields and Powerpoint presentations on the assigned topic		
OCTOBER	**Theory:**	Biological control of diseases, Mechanism of biological control, three major classes of pathogen with life cycles, Control or management differences – IPM strategies, HR response and gene for gene concept		
	Practicals:	1. Quantification of secondary metabolites 2. Set up-Immuno-diffusion (DID, SRID)		
	Tutorials:			
	Test	Written test will be conducted in the end of the month from the completed syllabus		
NOVEMBER	**Theory:**	Innate and Adaptive immunity in plants, host-pathogen interactions (ISR, SAR, Phytoalexins, PR-proteins)		
	Practicals:	Mock test		
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Sarvesh Kumar **Department: Commerce** **Semester: I/III/V**

Month	Type of Class	Topics	Course	Paper Code/Name
JULY 2016	**Theory**	1. Introduction – Definitions, Income, Person, Assessee, Previous year, Assessment year	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Practicals	Not Applicable		
	Tutorials	1. Revision of Concepts	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
AUGUST 2016	**Theory**	1. Agriculture Income, Exemptions, Residential status, Scope of Income, Introduction of salary	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Practicals	Not applicable		
	Tutorials	1. Practicals questions on residential status and revision of concepts	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER 2016	**Theory**	1. Detailed discussion on salary with practical questions and started the topic house property	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Practicals	Not applicable		
	Tutorials	1. Practical questions on salary	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Assignment	1. Assignment from salary given important concepts. Discussion on salary and house property	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER 2016	**Theory**	1. House property and practical questions and started capital gains	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Practicals	Not applicable		
	Tutorials	1. Practical questions and revision of difficult points raised by students	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice

	Test	1. Section B (Residential status and Salary) on 3rd October, 2016	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
NOVEMBER 2016	**Theory**	1. Part of capital gains and clubbing of income	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice
	Practicals	Not applicable		
	Tutorials	1. Practical questions on capital gains and clarification on issues asked by the students	1. B.Com. (Hons) - III	1. BCH 3.2 Income Tax Law & Practice

Dated: **Signature of the Faculty**

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2016-17)

Name of the Faculty: Dr. S Venkat Kumar **Department: Commerce** **Semester: I**

Month	Type of Class	Topics	Course	Paper Code/Name
JULY 2016	**Theory**	1. Indian Contract Act, 1872: Meaning, characteristics and kinds	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Practicals	Not Applicable		
	Tutorials	1. Case laws – mailing students get acquainted with legal aspects	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
AUGUST 2016	**Theory**	1. Indian Contract Act, 1872: Essentials of valid contract – offer and acceptance, consideration with case studies.	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Practicals	Not applicable		
	Tutorials	1. Detailed explanation to case studies vis-à-vis rules	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER 2016	**Theory**	1. Indian Contract Act, 1872: contractual capacity, free consent, legality of objects with case studies	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Practicals	Not applicable		
	Tutorials	1. Interpretation of provisions of certain important rules	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Assignment	1. Assignment on topics covered with Dr. Sindhumani Bag	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER 2016	**Theory**	1. 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	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Practicals	**Not applicable**		
	Tutorials	1. Make students – write relevant contemporary case studies	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws

	Test	1. In the 3rd week on all topics covered for I semester	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
NOVEMBER 2016	**Theory**	1. The Sale of Goods Act, 1930 – sale and agreement to sell, conditions and warranties, transfer of ownership, unpaid seller	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws
	Practicals	**Not applicable**		
	Tutorials	1. Contemporary case studies on sale and dispute origin	1. B.Com. (Hons) - I	1. BCH 1.3 Business laws

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2016-17)

Name of the Faculty: Dr. S. Venkata Kumar **Department: Commerce** **Semester: V**

Month	Type of Class	Topics	Course	Paper Code/Name
July & August 2016	**Theory**	UNIT: 1 Organisational Theories: Classical, Neo-Classical and Contemporary, OB: Concepts, determinants, challenges, and formal & informal structures; flat and Tall structures, Opportunities of OB; contributing disciplines of OB; Organisational behaviour models. UNIT: 2 Personality – Type A and B, Big Five Personality types, factors influencing personality; values and attitudes – concept and types of values: terminal and Instrumental value; Component of attitude, job related attitudes, measurement of attitude; Learning- concept and learning theories and reinforcement, schedules of reinforcement; Perception and emotion – concept, perceptual process, importance, factors influencing perception, perceptual errors and distortions, emotional intelligence.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
	Tutorials	Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
September 2016	**Theory**	UNIT – 3 Concept and nature of decision-making process, individual versus group decision-making, Nominal group technique and Delphi technique, communication and feedback, models of communication, transactional analysis, Johari Window. UNIT – 4 Meaning and importance of motivation, Theories- Vroom's Valence-Expectancy Theory, Intrinsic motivation by Ken Thomas, Behaviour modification, Motivation and organisational effectiveness, Measurement of motivation	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour

		using standard questionnaire.		
	Tutorials	Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
October 2016	**Theory**	UNIT – 5 Concept and theories, styles of leadership, Behavioural approach, situational approach, leadership effectiveness, power and conflict, bases of power, power tactics, sources of conflict, conflict resolution strategies.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
	Tutorials	Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
	Assignment	Topics allotment for making the assignments.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
	Test	Test would be conducted on the concerned subject after mid-semester break.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
November 2016	**Theory**	UNIT – 6 Organisational culture and climate- concept and determinants of organisational culture, Developing organisational culture, Organisational change – importance, stability vs change, Proactive vs Reaction change, Change process, Managing change, Individual and organisational factors to stress; work stressors, consequences of stress on individual and organization; Prevention and management of stress.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour
	Tutorials	Out of the topics covered in the class to be issued to the students for discussion and analytical thinking on it.	B.Com. (Hons) - V	BCH-5.4 DSE Group A (h): Organisational Behaviour

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2016-17) Odd Semester

Name of the Faculty: Ms. Sunita Chhabra **Department: Commerce** **Semester: III**

Month	Type of Class	Topics	Course	Paper Code/Name
JULY & AUGUST 2016	**Theory**	1. HRM- Concept and functions, role, status and competencies of HR Manager, HR policies, Evolution of HR, Emerging challenges of HRM – workforce diversity, empowerment, downsizing, VRS and Work life balance. Human Resource Planning, Job Analysis, Recruitment, selection and placement, induction and socialization. 2. Concept of management, need, and managerial functions, coordination- an essence of management, Evolution of management thoughts- classical to situational approach, MBO, Five –forces analysis, Trends and challenges of management in global environment and other topics of unit 1.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
	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 (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER 2016	**Theory**	1. Training and Development- concept and importance, role and competency based training, Training methods, Training process outsourcing. 2. Planning- Types of plan, strategic planning, Environmental analysis and diagnosis, BCG, SWOT analysis, Decision-making- concept, importance, process, MIS and DSS.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications

	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 (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER 2016	**Theory**	1. Performance appraisal and compensation management – nature, objectives and process, performance management, methods, potential appraisal, employee counseling's, Job changes, transfers and promotions, HR Audit, Compensation management. 2. Organising- concept, process, formal and informal organisation, Principles of organizing, Types of organisation structure. 3. Concept of staffing, recruitment and selection, orientation, training and development, career development, performance appraisal.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
	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 (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
	Assignment	1. Topics were allotted for making the assignments. 2. Topics were allotted for giving presentation in PPT format.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
NOVEMBER 2016	**Theory**	1. Maintenance of employees, and emerging horizons of HRM- employee health and safety, employee welfare, social security, employer-employee relations, grievance handling and redressal, HRIS, HR Audit and others topics. 2. Motivation theories, Leadership theories, Communication, and control- process, limitation, principles of effective control, major techniques of control, PERT, CPM, MVA, EVA.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications

	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 (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications
	Test	1. Test would be conducted on the concerned subject. 2. Test would be conducted on the concerned subject.	1. B.Com (H)-II A 2. B.Com. (H)-II B	1. BCH 3.1 HRM 2. BCH 3.3 Management Principles & Applications

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2016-17)

Name of the Faculty: Dr. Mamta Arora
Department: Commerce
Semester: I/III/V (ODD)

Month		Topics	Course	Paper
JULY 2016	**Theory**	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	1. Interactive session with students on scope and objectives of Financial Management 2. Practical Problems of Time Value of Money discussed		
AUGUST 2016	**Theory:**	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 Method s (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:	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 2016	**Theory:**	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.		
	Assignment :	Assignment on Capital Budgeting Evaluation Techniques		
OCTOBER 2016	**Theory:**	1 Theory of Leverage – Operating, Financial and Total Leverage and practical aspects of Leverage. 2 EBIT / EPS Analysis and Financial Breakeven 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:	1. Assignment on Cost of Capital 2. Discussion on Practical problems of Leverage, Calculation of EPS and Capital Structure Theories.		
	Test	Class Test on Capital Budgeting Process and Cost of Capital		
NOVEMBER 2016	**Theory:**	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:	1. Discussion on Problems of Dividend Decisions. 2. To clear doubts of the syllabus		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
2016-17 odd sem

Name of the Faculty: Dr. Shruti Mathur
Department: Commerce **Semester: 3rd**

Month		Topics	Course	Paper Code/Name
July – August	**Theory**	**Unit 1- Introduction** • Concept; Management functions; Coordination. • Evolution of Management Thought • Trends & Challenges of mngt. Emerging Issues in mngt **Unit 2- Planning** • 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: Management Principles and Applications
	Tutorials	• Case studies/ presentations/ management games related to the topics done in theory	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
September	**Theory**	**Unit 2- Planning** • 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** • Staffing • Motivation: Concept, Importance, Intrinsic and Extrinsic, Major Motivation Theories – Maslow's, Hertzberg'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	• Case studies/ presentations/ management games related to the topics done in theory	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Assignment	• Assignment on various topics from the course	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
October	**Theory**	**Unit 4- Staffing & Directing** • 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 • 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	• Case studies/ presentations/ management games related to the topics done in theory	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
	Test	• Unit II – Planning • Unit IV – Staffing & Directing	B.Com. (Hons.)	Paper BCH 3.3: Management Principles and Applications
November	**Theory**	**Unit 5- Control** • 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	• 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
2016-17 odd sem

Name of the Faculty: Dr. Shruti Mathur
Department: Commerce **Semester: 5th**

Month		Topics	Course	Paper Code/Name
July - August	**Theory**	**Unit 5. Spreadsheet and its Business Applications.** ➢ Spreadsheet concepts ➢ Creating a work book, ➢ saving a work book ➢ editing a work book, ➢ inserting, deleting work sheets, ➢ entering data in a cell ➢ formula Copying ➢ Moving data from selected cells, ➢ Handling operators in formulae. ➢ Inserting Charts- LINE, PIE, BAR **Unit 6. Generally used Spread sheet functions** ➢ Mathematical- ROUND ALL, SUM, SUMIF, COUNT, COUNTIF ➢ Statistical – AVERAGE, MAX, MIN, STDEV, FREQUENCY, INTERCEPT, SLOPE. ➢ Financial - PMT, PPMT, IPMT ➢ Logical - IF, AND, OR	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business
	Practical	➢ Ratio Analysis. ➢ Graphical representation of data	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business

September	**Theory**	**Unit 1. Basic Concepts.** • Characteristics of a Computer. • Advantages of Computers. • Limitations of Computers. • Types of Computers. • Applications of computers. **Unit 2. Essential components of Computers.** • Hardware, Firmware, Live-ware • Software: o System Software: Operating system, Translators, interpreter, compiler. o Overview of operating system, function of operating system. o Application software: General Purpose Packaged Software and tailor made software.	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business
	Practical	➢ Payroll statements • Basic • With Arrears	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business

	Assignment	Assignment on Unit 1 and 2		
October	**Theory**	**Unit 3. Introduction to Internet** o Meaning of Internet. o Growth of internet. o Owner of Internet. Anatomy of Internet o Net Etiquettes World Wide Web o Internet Protocols. o Usage of Internet to society. o Search Engines. **Unit 4. Word Processing.** ➢ Introduction to word Processing. ➢ Word processing concepts. ➢ Working with word document:: ➢ Opening an existing document/creating a new document. ➢ Saving, ➢ Selecting text, ➢ Editing text, ➢ Finding and replacing text, ➢ Formatting text, o Bullets and numbering o Tabs o Paragraph Formatting o Page Setup	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business
	Practical	Loan & Lease statement • Generalized with garbage cleaning • Special cases in Loan and Lease statement	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business
	Test	1. Unit 3.4. 5. 6		
November	**Theory**	**Unit 7. Presentation Software** ➢ Creating a presentation. ➢ Editing ➢ Sorting ➢ Layout. ➢ Set-up row ➢ Rehearse timing	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business

	Practical	➢ Frequency distribution. Cumulative and calculation of Means, Mode and Median. ➢ Regression	B.Com. 5th Semester TYUP	Paper CP 5.2 Computer Applications In Business

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
ODD SEM 201-17

Name of the Faculty: Ms Pooja Jain **Department: Commerce** **Semester: I/III/V**

Month	Type of Class	Topics	Course	Paper Code/Name
JULY	**Theory**	**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.	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/Management Accounting
	Practicals	Introduction to HTML, Creating and viewing a Webpage and basic HTML tags.	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	CH 5.3/ E-commerce Practical Part C
	Tutorials	Basics and significance of Management Accounting will be discussed	**3. B.Com. (Hons) – V A** **4. B.Com. (Hons) – V B**	3. CH5.1/Management Accounting 4. CH5.1/Management Accounting
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
AUGUST	**Theory**	**Unit IV:** a. Absorption versus variable costing: Distinctive features and income determination. 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. **Unit II**: Budgeting and budgetary control: Concept of budget and budgetary control, objectives, merits, and limitations,	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	**1.** CH5.1/Management Accounting **2.** CH5.1/Management Accounting
	Practicals	Text Formatting tags, Images and hyperlinks	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	CH 5.3/ E-commerce Practical Part C
	Tutorials	Practical problems will be discussed related to following topics:	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	1. CH5.1/Management Accounting

		a. Absorption versus variable costing: Distinctive features and income determination. 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.		2. CH5.1/Management Accounting
	Assignment	One home assignment will be given from the topic: Absorption and variable Costing and CVP analysis	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	**1.** CH5.1/Management Accounting **2.** CH5.1/Management Accounting
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory**	**Unit II:** Budgeting and budgetary control: Budget administration, Functional budgets, Fixed and flexible budgets, Zero base budget, Programme and performance budgets. **Unit VI**: Responsibility Accounting: Concept, Significance, Different Responsibility Centers, Divisional Performance Measurement – Financial Measures. **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	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/Management Accounting
	Practicals	Lists, Tables and Forms	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	CH 5.3/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	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/Management Accounting

		market		
	Assignment	Second assignment will be given on the topic: Responsibility Accounting	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	**1.** CH5.1/Management Accounting **2.** CH5.1/Management Accounting
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER	**Theory**	**Unit V:** Decision making: make or buy, product mix, operate or shut down, sell or process further **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.	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	**1.** CH 5.1/Management Accounting **2.** CH 5.1/Management Accounting
	Practicals	Forms, Frames and Cascading style sheets	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	CH 5.3/ 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** 2. **B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/Management Accounting
	Test	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	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	**1.** CH5.1/Management Accounting **2.** CH5.1/Management Accounting
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
NOVEMBER	**Theory**	**Unit III:** Standard Costing and Variance analysis: Overhead variance b. Revision will be taken from each unit.	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/Management Accounting

	Practicals	Miscellaneous questions will be discussed from examination point of view.	**1. B.Com. (Hons) – V A** **2. B.Com. (Hons) – V B**	CH 5.3/ E-commerce Practical Part C
	Tutorials	a. Standard Costing and Variance analysis: Overhead variance b. Miscellaneous questions will be discussed from examination point of view.	1. **B.Com. (Hons) – V A** 2. **B.Com. (Hons) – V B**	1. CH5.1/Management Accounting 2. CH5.1/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-2016	**Theory**	1. **The limited liability partnership Act, 2008:** Salient features of LLP, difference between LLP and Partnership, LLP and Company 2. **The Indian Contract Act 1872: (a)** Meaning, characteristics and kinds. (b) Essentials of a valid contracts- offer and acceptance, consideration, contractual capacity. 3. **Director and Key managerial Personel**	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
	Practical Lab.)	1. Income Tax (ITR-1) 2. Income Tax (ITR-1)	1. B.Com (p)-III 2. B.Com (Hons)-IIIB	1. Income Tax Laws & practices 2.Income Tax Laws & Practices
	Tutorials	1. Case laws of offer and acceptance presented by the students 2. Case laws of consideration presented by students**.** 3. Group discussion on type of Directors and their Role	1. B.Com. (Hons) - IA 3. B.Com. (Hons) – IB 4. B.Com(P)-III	1. BCH 1.3: Business Laws 3. BCH 1.3: Business Laws 4. Company Laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
AUGUST-2017	**Theory**	1. 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. 2. 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. **3. Director and Key managerial Personel**	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. 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, ttaxation 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	1.Topic allotment for1st assignment & collect it and topic allotment for 2nd assignment(sharing with Dr. Venkata Kumar). 2. Topics were allotment and collect of 1st Assignment and Topic allotment for 2nd Assignment. 3. Topic allotment for1st assignment & collect it and topic allotment for 2nd assignment(sharing with Ms Priyanka).	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.B.Com (P)-Company Laws
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER-2017	**Theory**	1. The Limited Liability Partnership, 2008: winding up and dissolution. 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. 3. **Accounts and Audit & Dividend Provisions.**	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. Company Laws
	Practicals	1. Income Tax (ITR-2) 2. Income Tax (ITR-2)	1. B.Com (p)-III 2. B.Com (Hons)-IIIB	Income Tax Laws & practices 2.Income Tax Laws & Practices
	Tutorials	1. Group discussion on 'winding up and dissolution'. 2. Group discussion on Rights of unpaid seller. 3. Discussion on Accounts and Audit.	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
	Test	1. Notification of date schedule for the conduct of the Internal Examination. 2. Notification of date schedule for the conduct of the	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. Company Laws

		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**	1. **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. 2. **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. 3. **Winding Up of Companies.**	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.** Company Laws
	Practicals	1. Income Tax (ITR-1) 2. Income Tax (ITR-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 ' governance of information technology Act 2000' 2. Group discussion on ' governance of information technology Act 2000' 3. Discussion on 'winding up and dissolution of a company'	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
	Test	1. conduct internal Examination 2. conduct internal Examination 3. conduct internal Examination	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

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
(2016-17)

Name of the Faculty: Dr. Vinod Kumar **Department: Commerce** **Semester: I/III/V**

Month	Type of Class	Topics	Course	Paper Code/Name
JULY 2016	**Theory**	1. An Introduction to Financial System, its Components – Financial markets and institutions; 2. Concept of risk; Types of Risk; Managing Risk	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management
	Practicals	1. Due to non-availability of Tax Software in the Lab, no Practicals were conducted	1. B.Com. - III	1. BC 3.2: Income Tax Law and Practice
	Tutorials	1. An Introduction to Financial System, its Components – Financial markets and institutions; 2. Concept of risk; Types of Risk; Managing Risk 3. Audit planning; Internal control – check and audit	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I 3. B.Com. (Hons) - V	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management 3. CH. 5.3 (a)/Auditing
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
AUGUST 2016	**Theory**	1. Financial intermediation; Flow of funds matrix; Financial system and economic development; An overview of Indian financial system; Financial Markets: Money market – functions, organization and instruments; Role of central bank in money market; Indian money market – an overview; Capital Markets – Functions, organization and instruments; Indian debt market; Indian equity market – primary and secondary markets; Role of stock exchanges in India; 2. 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; proximit cause; contribution and subrogation; indemnity;	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management

		legal aspects of insurance contract		
	Practicals	1. E-filing of income tax returns using a software utility tool: case study on ITR - 1	1. B.Com. - III	1. BC 3.2: Income Tax Law and Practice
	Tutorials	1. An overview of Indian financial system; Indian equity market – primary and secondary markets; Role of stock exchanges in India; 2. Concept of insurance; need for insurance; nature of insurance contract; principle of utmost good faith, insurable interest; proximit cause; contribution and subrogation; indemnity; 3. Audit procedure – Vouching and verification of assets and liabilities	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I 3. B.Com. (Hons) - V	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management 3. CH. 5.3 (a)/Auditing
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER 2016	**Theory**	1. SEBI and Investor protection; Financial Institutions: Commercial banking – introduction, its role in project finance and working capital finance; Development Financial institutions (DFIs) – overview and role in Indian economy; Life and non-life insurance organizations in India; Mutual Funds – Introduction and their role in capital market development; Non-banking financial companies (NBFCs) 2. Types of insurance; Regulatory framework of insurance: role, power and functions of IRDA, composition of IRDA, IRDA Act, 1999; Fire and Motor Insurance; Health Insurance	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management
	Practicals	1. E-filing of income tax returns using a software utility tool: case study on ITR – 1 & ITR - 2	1. B.Com. - III	1. BC 3.2: Income Tax Law and Practice
	Tutorials	1. Mutual Funds – Introduction and their role in capital market development; 2. Fire and Motor Insurance; Health Insurance 3. Audit of limited companies	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I 3. B.Com. (Hons) - V	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management 3. CH. 5.3 (a)/Auditing
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER 2016	**Theory**	1. Overview of financial services industry; Merchant banking – pre and post issue management,	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I	1. CH 5.4 (a)/Financial Markets, Institutions

		underwriting; Regulatory framework relating to merchant banking in India; Leasing and hire-purchase; Consumer and housing finance; Venture capital finance; Factoring services, bank guarantees and letter of credit 2. 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		and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management
	Practicals	1. E-filing of income tax returns using a software utility tool: case study on ITR – 1 and ITR – 2	1. B.Com. - III	1. BC 3.2: Income Tax Law and Practice
	Tutorials	1. Venture capital finance; Factoring services, bank guarantees and letter of credit 2. Negligence; Loss assessment and loss control; exclusion of perils; computation of insurance premium 3. Special areas of audit	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I 3. B.Com. (Hons) - V	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management 3. CH. 5.3 (a)/Auditing
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
NOVEMBER 2016	**Theory**	1. Credit Rating; Financial counseling 2. Actuaries	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management
	Practicals	1. E-filing of income tax returns using a software utility tool: case study on ITR - 1	1. B.Com. - III	1. BC 3.2: Income Tax Law and Practice
	Tutorials	1. Credit Rating 2. Actuaries 3. Relevant case studies/problems	1. B.Com. (Hons) - V 2. B.Com. (Hons) - I 3. B.Com. (Hons) - V	1. CH 5.4 (a)/Financial Markets, Institutions and Financial Services 2. BCH 1.4 (b)/Insurance and Risk Management 3. CH. 5.3 (a)/Auditing

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Ms. Neha Singhal **Department: Commerce** **Semester : I/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. Introduction to Computer- Characteristics of Computer, Computer system, Parts of Computer, Computer H/W Set up, Configuration 3. Deductions to be made in computing Total Income. 4. Introduction, Types of Audit	1) B.Com-III 2) B.Com-III 3) B.com (H)-III 4) B.Com (H)-V	1. BC-3.2/ Income Tax Law and Practice 2. BC-3.4 (a)/ Computer Applications in Business 3. BCH-3.2/Income Tax 4. CH-5.3 (a)/ Auditing
	Practicals	1. Introduction to HTML	1.B.com (H)-III	1. BCH-3.5 (a)/ E Commerce
	Tutorials	1. Scope of Total Income and Residential Status. 2. Types of Audit	1. B.Com-III 2. B.Com (H)-V	1. BC-3.2/ Income tax Law and Practice 2. CH-5.3 (a)/ Auditing
AUGUST	**Theory:**	1. Scope of Total Income and Residential Status, Income Under the Head Salaries. 2. Networking, Mobile H/W, Device and types of wireless networking, Operating system- Introduction, Overview if various computers. 3. Deductions to be made in computing Total Income, Income Under the Head Business/ Profession. 4. Audit Planning and Documentation, Internal Control System, Evidence in Auditing, Vouching.	1) B.Com-III 2) B.Com-III 3) B.com (H)-III 4) B.Com (H)-V	1. BC-3.2/ Income Tax Law and Practice 2. BC-3.4 (a)/ Computer Applications in Business 3. BCH-3.2/Income Tax 4. CH-5.3 (a)/ Auditing
	Practicals:	1. Tags and Attributes, Fonts	1.B.com (H)-III	1. BCH-3.5 (a)/ E-Commerce
	Tutorials:	1. Income Under the Head Salary. 2. Internal Control System, Cases in Vouching	1.B.Com-III 2. B.Com (H)-V	1. BC-3.2/ Income tax Law and Practice 2. CH-5.3 (a)/ Auditing

	Assignment	1. Assignment form Chapter –Income under the head Salary. 2. Assignment from Chapter- Introduction, Types of Audit	1) B.Com-III 2) B.Com (H)-V	1. BC-3.2/ Income Tax Law and Practice\ 2. CH-5.3 (a)/ Auditing
SEPTEMBER	**Theory**	1. Income under the head House Property, Income under the head Business/ Profession. 2. Mobile OS and Applications (UNIX/ LINUX, DOS, Windows, Android, Windows Mobile, iOS Like) 3. Income under the head Business/ Profession. 4. Verification of Assets, Verification of Liabilities, Appointment and Removal of Auditor, Rights and Duties of a Company Auditor.	3) B.Com-III 4) B.Com-III 5) B.com (H)-III 6) B.Com (H)-V	3. BC-3.2/ Income Tax Law and Practice 4. BC-3.4 (a)/ Computer Applications in Business 5. BCH-3.2/Income Tax 6. CH-5.3 (a)/ Auditing
	Practicals	1. Text Formatting, hypertext Links, Images	1.B.com (H)-III	1. BCH-3.5 (a)/ E-Commerce
	Tutorials	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-III 2. B.Com (H)-V	1. BC-3.2/ Income tax Law and Practice 2. CH-5.3 (a)/ Auditing
	Test	1. Test from Chapter- Income under the head Salary and Income from House property.	1) B.Com-III	1. BC-3.2/ Income Tax Law and Practice
	Assignment	2. Assignment from chapter- Vouching, Appointment and Removal of Auditor, Rights and Duties of a Company Auditor.	1. B.Com (H)-V	1. CH-5.3 (a)/ Auditing
OCTOBER	**Theory**	1. Income under the head Business/ Profession, Income under the head Capital Gains, Income under the head Other Sources. 2. Features of Windows OS, Management and networking (installation, backup,, security, user control) 3. Income under the head Business/ Profession, Set off or Carry forwards and set off of losses. 4. Auditor's Report, Liabilities of Auditor, Cost Audit	2) B.Com-III 3) B.Com-III 4) B.com (H)-III 5) B.Com (H)-V	3. BC-3.2/ Income Tax Law and Practice 4. BC-3.4 (a)/ Computer Applications in Business 5. BCH-3.2/Income Tax 6. CH-5.3 (a)/ Auditing

	Practicals	1. Tables, Lists and Forms	1.B.com (H)-III	1. BCH-3.5 (a)/ E-Commerce
	Tutorials	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-III 2. B.Com (H)-V	1. BC-3.2/ Income tax Law and Practice 2. CH-5.3 (a)/ Auditing
	Test	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.	1. B.com (H)-III 2. B.Com (H)-V	1. BCH-3.2/Income Tax Law and Practice 2. CH-5.3 (a)/ Auditing
	Assignment	1. Assignment from Chapter- Income under the head Business/ Profession	1. B.Com-III	1. BCH-3.2/Income Tax Law and Practice
NOVEMBER	**Theory**	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. Usage of payment gateway 3. Clubbing of Income, Leading case of Supreme Court. 4. Management Audit, Tax Audit and Introduction to EDP Auditing.	1. B.Com-III 2. B.Com-III 3. B.com (H)-III 4. B.Com (H)-V	3. BC-3.2/ Income Tax Law and Practice 4. BC-3.4 (a)/ Computer Applications in Business 5. BCH-3.2/Income Tax 6. CH-5.3 (a)/ Auditing
	Practicals	1. Frames and Cascading Style Sheets	1.B.com (H)-III	1. BCH-3.5 (a)/ E-Commerce
	Tutorials	1. Clubbing of Income, Agricultural Income, Assessment of Individuals.\ 2. Introduction to EDP Auditing.	1. B.Com-III 2. B.Com (H)-V	1. BC-3.2/ Income tax Law and Practice 2. CH-5.3 (a)/ Auditing

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 2016	**Theory**	1.Introduction to the basic accounting concepts , Financial accounting standards and the relevance of international financial reporting standards. 2.Meaning, nature,concepts,advantages, disadvantages and reasons for transacting online,Types of E-commerce,e-commerce business models Forces behind e-commerce	B.com(H) semester I (A+B) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
	Practicals	Microsoft word	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 2016	**Theory:**	1.Dissolution of Partnership Firm ,Inland Branches 2.Technology used in e-commerce, Designing building and launching e-commerce webiste	B.com(H) semester I (A+B) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
	Practicals:	Microsoft word and Microsoft excel	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 2016	**Theory:**	1.Inland Branches , Final Accounts and Hire Purchase System	B.com(H) semester I (A+B)	BCH1.2/ Financial Accounting

		2.Unit II – security and encryption	B.com(H) semester III(A+B)	BCH3.5(a)/E-Commerce
	Practicals:	Microsoft excel and continuous evaluation of Microsoft word	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
	Assignment :	Topic- Dissolution and Inland branches Topic- Preparing an e-commerce business model	B.com(H) semester I (B) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
OCTOBER 2016	**Theory:**	1.Hire Purchase System , NPO,Single entry system 2.Unit-VI security and legal aspects of E-commerce	B.com(H) semester I (A+B) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
	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
	Test	Topic-NPO and Hire Purchase system Topic-Dissolution and Inland Branches Topic-unit-1 ,2 and 4	B.com(H) semester I (B) B.com(H) semester I (A) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
	Assignment	Topic-Hire purchase system and final accounts Topic – Design an app for the good or service of your choice	B.com(H) semester I (A) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce
NOVEMBER 2016	**Theory:**	1.Depriciation and Inventory 2.Unit IV and V only substantiated what was alreadycovered in the practical class	B.com(H) semester I (A+B) B.com(H) semester III(A+B)	BCH1.2/ Financial Accounting BCH3.5(a)/E-Commerce

	Practicals:	Continuous evaluation of Microsoft word and 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: Arpita Kaul Department: Commerce
Semester: I (2016-17)

Month		Topics	Course	Paper Code/Name
JULY 2016	**Theory**	Spectrum of business activities, Manufacturing and service sectors, India's experience of liberalization and globalization	B.Com	BC 1.3Business Organization and Management
	Practicals			
	Tutorials	Group discussion on the topic: Globalization boon or bane for India.	B.Com	BC 1.3Business Organization and Management
AUGUST 2016	**Theory:**	Technological innovations and skill development, Make In India Movement, Multinational and Transnational Companies, Social responsibilities and ethics	B.Com	BC 1.3Business Organization and Management
	Practicals:			
	Tutorials:	Prepare a business plan in group of five and present in tutorial class.	B.Com	BC 1.3Business Organization and Management
SEPTEMBER 2016	**Theory:**	Planning, Decision making, Strategy Formulation, Organizing, Departmentation- Functional, project, matrix, network, Delegation & decentralization of authority, dynamics of group behavior, Leadership: Content and Styles: Trait and Situational Theory	B.Com	BC 1.3Business Organization and Management

	Practicals:			
	Tutorials:	Visit housing.com and based on your requirements find a house you would like to buy for yourself.	B.Com	BC 1.3Business Organization and Management
	<u>Assignment :</u>	Prepare powerpoint group presentations on topics assigned to you and present in class. Some of the topics like Brexit, Make in India Movement, Any FMCG company (students are free to choose the company and talk about its managerial aspects.)	B.Com	BC 1.3Business Organization and Management
OCTOBER 2016	**Theory:**	Motivation: Concept and Importance, Maslow Need Hierarchy Theory, Herzberg Two Factor Theory, McGregor and Ouchi Theory, Control: Concept and process, Communication: process and Barriers, TA, Johari Window. Change Management: Resistance to Change & strategies to manage change, conflict levels, causes & resolution. Functional & Dysfunctional aspects of conflict	B.Com	BC 1.3Business Organization and Management
	Practicals:			
	Tutorials:	Case Study: Jack Welsh Leading Organizational; Change at GE Koontz, H., & Weihrich, H. (2015). *Essentials of Management An International, innovation, and leadership perspective* (10th ed.). McGraw Hill Education.	B.Com	BC 1.3Business Organization and Management
	<u>Test</u>	On 5th October, 2016of syllabus from planning till leadership.	B.Com	BC 1.3Business Organization and Management
NOVEMBER 2016	**Theory:**	Emerging issues in management, Conceptual framework of Marketing Management, Financial Management and Human Resource Management.	B.Com	BC 1.3Business Organization and Management
	Practicals:			

	Tutorials:	Case Study: Recruiting Talents at Infosys, Koontz, H., & Weihrich, H. (2015). *Essentials of Management An International, innovation, and leadership perspective* (10th ed.). McGraw Hill Education.	B.Com	BC 1.3Business Organization and Management

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Arpita Kaul **Department: Commerce**
Semester: III (2016-17)

Month		Topics	Course	Paper Code/Name
JULY 2016	**Theory**	Concept and functions, role, status and competencies of HR manager,HR Policies, Evolution of HRM	B.Com H	BCH 3.1Human Resource Management
	Practicals	Word: working with word document, inserting, filling and formatting a table. Mail merge, creating macros.	B.Com	BC 3.4(a) Computer Applications in Business
	Tutorials	Case Study: Left or Right, Rao, V. S.P.*Human Resource Management.* Taxmann.	B.Com H	BCH 3.1Human Resource Management
AUGUST 2016	**Theory:**	Emerging challenges of HRM-workforce diversity, empowerment, vrs, work life balance.Human resource planning:quantitative and qualitative dimesions, job analysis-job description & job specification, recruitment-concept & sources, selection-concept and process, test, interview, placement, induction,retention	B.com H	BCH 3.1Human Resource Management
	Practicals:	Converting word document to wed document, pdf, , hyperlinks. Protection of document- password. Referencing, manage sources and citations, creating bibliography. Review documents.	B.Com	BC 3.4(a) Computer Applications in Business
	Tutorials:	Case Study: You call this selection interview, Rao, V. S.P.*Human Resource Management.* Taxmann.	B.Com H	BCH 3.1Human Resource Management

September 2016	**Theory**	T&D: Concept, methods. Performance Appraisal: nature, objectives, process, methods , potential appraisal, employee counseling, job changes-transfers and promotion. HR Audit	B.Com H	BCH 3.1Human Resource Management
	Practicals	Powerpoint: preparing presentation, slides, handouts, adding transition to slide shows-special effects in detail-setting, slide timings.	B.Com	BC 3.4(a) Computer Applications in Business
	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 3.1Human Resource Management
	Assignment	Collect 20 advertisements for job frank first 10 on the basis of job description and job specification, explain the jds and jss of all.	B.Com H	BCH 3.1Human Resource Management
OCTOBER 2016	**Theory:**	Compensation- concept & policies, fringe benefits, employee stock option, job evaluation. Employee health and safety, employee welfare,social security	B.Com H	BCH 3.1Human Resource Management
	Practicals:	Present a ppt on your favourite topic use transitions,animations.Assignment: 3 word assignments one based on table, second on book cover page and third on references.	B.Com	BC 3.4(a) Computer Applications in Business
	Tutorials: **TEST**	A training program on business etiquettes. 7th October, 2016	B.Com H	BCH 3.1Human Resource Management

NOVEMBER 2016	**Theory:**	E hrm, hris, contemporary issues in hrm.	B.Com H	BCH 3.1Human Resource Management
	Practicals:	MS Access	B.Com	BC 3.4(a) Computer Applications in Business
	Tutorials:	Group presentations by students on different topics of hrm and its practical applications.	B.Com H	BCH 3.1Human Resource Management

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Department of Commerce
(Year 2016-17)

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 2016-17	**Theory**	1. Meaning & uses of index numbers. Construction of index numbers: fixed & chain base 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) III Semester-V 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1. BCH 5.4 (e): Business Statistics 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 2. B.Com. (P) I	1. BCH 1.2: Financial Accounting 2. BC 1.2: Financial Accounting
	Tutorials	1. Problems of Index number	1. B.Com. (Hons.) V	1. BCH 5.4 (e):

		2. Problems of advertising and case studies	2. B.Com. (P) V	Business Statistics 2.BC 5.3(b) Advertising
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
SEPTEMBER	**Theory**	1. Unvariate & composite index number. Aggregative & average of relatives- simple & weighted 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.	1. B.Com – (H) III Semester-v 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1. BCH 5.4 (e): Business Statistics 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
	Practicals	1. Preparing reports, cash book, bank book,	1. B.Com. (Hons.) I 2. B.Com. (P) I	**1.** BCH 1.2: Financial Accounting **2.** BC 1.2: Financial Accounting
	Tutorials	1. Problems in Unvariate & composite index number. 2. Problems of Message Development	1. B.Com. (Hons) V 2. B.Com. (P) V	1. BCH 5.4 (e): Business Statistics 2.BC 5.3(b) Advertising
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
OCTOBER	**Theory**	1. Test of adequacy of index numbers 2. Measuring Advertising Effectiveness Arguments for and against measuring effectiveness; Advertising testing process: Evaluating	1. B.Com – (H) III Semester-v 2. B.Com-(P)III	1. BCH 5.4 (e): Business Statistics 2.BC 5.3(b) Advertising

		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 job.and off-the job methods, experiential versus non-experiential methods	Semester-V 3. B.Com(H)II Semester-III	3.BCH 3.5(b) Training and Development
	Practicals	1. Preparation of Ledger accounts, trial balance,	1. B.Com. (Hons.) I 2. B.Com. (P) I	**1.** BCH 1.2: Financial Accounting **2.** BC 1.2: Financial Accounting
	Tutorials	1. Problems of Test of Adequacy in index number 2. Problems and case studies related to Measuring Advertising Effectiveness	1. B.Com. (P) V 2. B.Com. (Hons.) V	1. BCH 5.4 (e): Business Statistics 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) III Semester-v 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1. BCH 5.4 (e): Business Statistics 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) III Semester-v 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	1. BCH 5.4 (e): Business Statistics 2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
Month	**Type of Class**	**Topics**	**Course**	**Paper Code/Name**
November	**Theory**	1. Sampling concepts Parameters &statistics, sampling methods,	1. B.Com – (H) III	1. BCH 5.4 (e): Business Statistics

		stratified sampling, systematic sampling, jugdement sampling & convenience sampling. 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. 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.	Semester-v 2. B.Com-(P)III Semester-V 3. B.Com(H)II Semester-III	2.BC 5.3(b) Advertising 3.BCH 3.5(b) Training and Development
	Practicals	1. Preparation of profit and loss account and balance sheet	1. B.Com. (P) V 2. B.Com. (Hons.) V	1. BCH 1.2: Financial Accounting 2. BC 1.2: Financial Accounting
	Tutorials	1. Problems of sampling concepts 2. Problems and caes studies of Organisational Arrangements	1. B.Com. (P) V 2. B.Com. (Hons.) V	1. BCH 5.4 (e): Business Statistics 2.BC 5.3(b) Advertising

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

(2016-17)

Name of the Faculty: Ms. Priyanka

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

Month		Topics	Course	Paper Code/Name
JULY 2016	**Theory** **Practicals** **Tutorials**	Not Applicable		
AUGUST 2016	**Theory:**	**1**.(i) Theoretical Framework, Financial accounting : Nature, scope and limitations, Basic Concepts and Conventions, Accounting Standards and Generally Accepted Accounting principles (ii) Final Accounts with Adjustments (iii) Depreciation Accounting 2. Concept & Functions of HRM, Essence of Training & Development In HRM, Training and Learning, Learning Process, Learning Curve, principles of Learning, Training Guidelines, Kind of Training, Transfer of Training, System approach of training, Programmed Instruction 3. Concept & Need of training, Importance and Objectives of Training, Identifying Training	1. B.COM(P) – I 2. B.COM(HONS) – III 3. B.COM(HONS) - III	1. BC1.2/Financial Accounting 2. 3.5(B)/ Training and Development 3. BCH3.1/ Human Resource management
	Practicals:	1.E – Filing of Income Tax-return using a software utility tool:- Case study on ITR - 1	1. B.COM(HONS) – III (A+B)	1.BC3.2/Income tax law and practice
	Tutorials:	1.Problem Class on Final Accounts with Adjustments and Depreciating Accounting	1.B.COM(P) - I	1.BC1.2/Financial Accounting

SEPTEMBER 2016	**Theory:**	1.(i) Accounting for Hire Purchase Transactions (ii) Inland Branches (iii) Consignment Accounts 2.Traning Needs	1.B.COM(P) – I 2.B.COM(HONS) – III 3.B.COM(HONS) - III	1.BC1.2/Financial Accounting 2.3.5(B)/ Training and Development 3.BCH3.1/Human
		3.(i) Executive Development (ii) Career planning and Development		
	Practicals:	1.E-Filing of Income Tax Return using a software utility tool –Case study on ITR 1 and ITR 2	1.B.COM(HONS) – III (A+B)	1.BC3.2/Income tax law and practice
	Tutorials:	1.Problem class on Inland Branches and Hire purchase transactions	1.B.COM(P) – I	1.BC1.2/Financial Accounting
	<u>Assignment :</u>	1.Topics were allotted for making the Assignment 2.Topics were allotted for making the Assignment 3.Topics were allotted for making the Assignment	1.B.COM(P) –I 2.B.COM (HONS) – III 3.B.COM(HONS) – III	1.BC1.2/financial accounting 2.3.5(B) /Training and Development 3.BCH3.1/Human Resource Management
OCTOBER 2016	**Theory:**	1.(i) Joint Venture Accounts (ii) Dissolution of partnership firms 2.Training Methods: On the job and off the job training, Three stages of training, Experiential versus Non Experiential Methods 3.Human Resource Development – Concept, Objectives, assumptions, need & Significance, Qualities of HRD Manager, Principles of HRD, Employee Counselling	1B.COM(P) – I 2.B.COM(HONS) – III 3.B.COM(HONS) –III	1.BC1.2/Financial Accounting 2.3.5 (B)/ Training and Development 3.BCH3.1/Human resource Management
	Practicals:	1.E- Filing of Income Tax Return using a software utility tool – Case study on ITR -1 and ITR -2	1. B.COM(HONS) –III	1. BC3.2/Income tax law & practice
	Tutorials:	1.Problems class on Joint Venture and Dissolution of Partnership firms	1.B.COM (P) –I	1. BC1.2/Financial Accounting

	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	1.B.COM(P) –I 2. B.COM(HONS) -III	1. BC1.2/Financial Accounting 2. 3.5(B) / Training and Development
NOVEMBER 2016	**Theory:**	1.Final accounts of Not for Profit Organisations 2.(i) Curriculum Development – Curriculum Standards, Matching Organizational Training Needs, Developing Trading Materials (ii) Emerging pattern of Training and development in India – Case study 3. Employee Empowerment – Concept, elements Approaches , Importance, Barriers, Making Empowerment Effective	1B.COM(P) – I 2.B.COM(HONS) – III 3.B.COM(HONS) –III	.BC1.2/Financial Accounting 2.3.5 (B)/ Training and Development 3.BCH3.1/Human resource Management
	Practicals:	1.E- Filing of Income Tax Return using a software utility tool – Case study on ITR -1 and ITR -2	1. B.COM(HONS) –III	1. BC3.2/Income tax law & practice
	Tutorials:	1. Problem Class on NPO	1.B.COM (P) –I	1. BC1.2/Financial Accounting

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Academic Planner: Odd Semester 2016 (July – November)

Name of the Faculty: Ms. Ramaa Sinha
Department: Zoology
Semester : V

Month		Topics	Course	Paper
July	**Theory**	Introduction and overview of the syllabus	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		Introduction and overview of the syllabus	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation
	Practical	Syllabus overview, general instructions and maintenance of lab record	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		Practical Syllabus overview, general instructions and maintenance of lab record	B.Sc. (Programme) Life Sciences Part III Batch I	LSPP 510/Biochemistry and Immunology
		Practical Syllabus overview, general instructions and maintenance of lab record	B.Sc. (Programme) Life Sciences Part III Batch II	LSPP 510/Biochemistry and Immunology
August	**Theory**	• Metamorphosis in Amphibians and Insects – Process and regulation • Regeneration – Morphallactic, compensatory and epimorphic	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• History of evolutionary thought: Pre-Darwinian concepts and contributors; Lamarckism – Merits and demerits; Darwinism – Basic tenets; Detailed explanation of the theory of natural selection	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation
	Practical	• Early development of frog up to tadpole stage – Study through slides • Drosophila live culture – Sort and study life cycle stages	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Blood group determination (ABO and Rh systems) • Colour reactions for functional groups in carbohydrates	B.Sc. (Programme) Life Sciences Part III Batch I	LSPP 510/Biochemistry and Immunology

		• Colour reactions for functional groups in proteins		
		• Blood group determination (ABO and Rh systems) • Colour reactions for functional groups in carbohydrates • Colour reactions for functional groups in proteins	B.Sc. (Programme) Life Sciences Part III Batch II	LSPP 510/Biochemistry and Immunology
September	**Theory**	• Regeneration (continued) • Teratogenesis – Causative agents and effects	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Mutationism; Agnosticism; Rediscovery of Mendelism; Theories of inheritance; Modern synthetic theory; Neo-Darwinism – Population genetics and concept of gene pool	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation
	Practical	• Drosophila live culture (continued) • Early development of chick up to 96 hours – Study through slides	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Ouchterlony's double immunodiffusion method • Viability and cell counting of peritoneal macrophages and splenocytes • Study of lymphoid organs (spleen, thymus and lymph node)	B.Sc. (Programme) Life Sciences Part III Batch I	LSPP 510/Biochemistry and Immunology
		• Ouchterlony's double immunodiffusion method • Viability and cell counting of peritoneal macrophages and splenocytes • Study of lymphoid organs (spleen, thymus and lymph node)	B.Sc. (Programme) Life Sciences Part III Batch II	LSPP 510/Biochemistry and Immunology
October	**Theory**	• Extra embryonic membranes in amniota – Process of formation • Ageing – Concepts, models and theories	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Sources of variation; Natural selection – Evidences from field observation (colouration and mimicry, co-adaptation and co-evolution); Major modes of selection; Gene frequency equilibrium – Conservation (Hardy-Weinberg's Law); Gene frequency changes (gene flow by selection and genetic drift); Genetic load and heterozygotic superiority	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation

	Practical	• Early development of chick (continued) • Placenta – Study of types based on morphology and histology	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Study of salivary amylase action under optimal conditions • Study of trypsin action under optimal conditions • Identification of the functional groups in the given unknown solutions of carbohydrates and proteins	B.Sc. (Programme) Life Sciences Part III Batch I	LSPP 510/Biochemistry and Immunology
		• Study of salivary amylase action under optimal conditions • Study of trypsin action under optimal conditions • Identification of the functional groups in the given unknown solutions of carbohydrates and proteins	B.Sc. (Programme) Life Sciences Part III Batch II	LSPP 510/Biochemistry and Immunology
November	**Theory**	• Quiz, short tests, guidance for theory exams	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Quiz, short tests, guidance for theory exams	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation
	Assignment	• Viral infection during pregnancy causing teratogenic changes in the foetus	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Darwin's Finches; Darwin's publications; Voyage of the Beagle – Places visited and significant discoveries made by Darwin	B.Sc. (Hons.) Biological Science Part III	BIST 502/Evolution and Adaptation

	Practical	• Mock tests – Spots (slides and photomicrographs) and viva voce	B.Sc. (Hons.) Zoology Part III	ZOHT 509/Developmental Biology
		• Practical Revision and guidance for practical exams	B.Sc. (Programme) Life Sciences Part III Batch I	LSPP 510/Biochemistry and Immunology
		• Practical Revision and guidance for practical exams	B.Sc. (Programme) Life Sciences Part III Batch II	LSPP 510/Biochemistry and Immunology

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
2016-17 Odd Semester (July-November)

Name of the Faculty: Dr. VVS Narayana Rao **Department:** Zoology

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory:**	Introduction to Genetics	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Introduction to Physiology	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
	Practicals:	Instructions to students	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Preparation of hemin & hemochromogen crystals	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
AUGUST	**Theory:**	**Introduction to Genetics:** Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Physiology of endocrine glands: Structure and function of pituitary, thyroid, parathyroid, pancreas and adrenal **Respiratory Physiology:** Pulmonary ventilation, Respiratory volumes and capacities	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
	Practicals:	• Mendelian laws and gene interactions using *Drosophila* crosses • Chi-square analysis	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		• Study of permanent slides of spinal cord, duodenum, liver, lung, kidney, bone, cartilage • Study of permanent histological sections of mammalian pituitary, thyroid, pancreas, adrenal gland	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry

SEPTEMBER	**Theory:**	**Linkage, crossing over and chromosomal mapping:** Linkage and crossing over, Cytological basis of crossing over, Molecular mechanism of crossing over, Recombination frequency as a measure of linkage intensity, two factor and three factor crosses, Interference and coincidence, Somatic cell genetics – an alternative approach to gene mapping	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Cardiovascular system: Composition of blood, hemostasis, Structure of heart, Origin and conduction of the cardiac impulse, cardiac cycle	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
	Practicals:	• Study of Linkage, recombination, gene mapping using marker based data from *Drosophila* • Pedigree analysis of some human inherited traits	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Qualitative test to identify functional groups of carbohydrates in given solutions (Glucose, fructose, sucrose, lactose)	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry

OCTOBER	**Theory:**	**Mutations:** Chromosomal Mutations: Deletion, Duplication, Inversion, Translocation, Aneuploidy and Polyploidy; Gene mutations: Induced versus Spontaneous mutations, Back versus Suppressor mutations, Molecular basis of mutations in relation to UV light and chemical mutagens, Detection of mutations: CLB method, Attached X method, DNA repair mechanisms.	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Physiology of excretion: Structure of nephron, mechanism of urine formation, counter-current mechanism **Physiology of digestion:** Physiology of digestion in alimentary canal, absorption of carbohydrates, proteins, lipids	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
	Practicals:	• Study of Hardy-Weinberg Law • Probability • Study of Human Karyotype (normal and abnormal)	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		• 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 Semester- III	CC III Physiology and Biochemistry

NOVEMBER	**Theory:**	• **Revision and Tests**	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		Physiology of male reproduction: Hormonal control of spermatogenesis **Physiology of female reproduction:** Hormonal control of menstrual cycle	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry
	Practicals:	• **Model Practical Exam and Viva Voce**	B.Sc. (H) Zoology Semester-V	GGHT 501 Genetics & Genomics -I
		• **Model Practical Exam**	B.Sc. (P) Life Sciences Semester- III	CC III Physiology and Biochemistry

SEMESTER WISE TEACHING PLAN (2016-2017)
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 3: Phylum Cnidaria:** General characters and classification up to classes; Canal System in *Sycon*.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 2. Lipid Metabolism: Biosynthesis and β-oxidation of palmatic acid.	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Unit 8. Immune Effectors Mechanisms: Cytokines: properties and functions, general structure of cytokine receptors.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Unit 6: Amphibia: Origin of Tetrapoda (Evolution of terrestrial ectotherms); General characteristics and classification up to order; Parental care in Amphibians.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata
	Practicals	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.*	B.Sc. (H) Zoology I Year	Non-chordates I: Protista to Pseudocoelomates
		Dissection and display of lymphoid organs.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Separation of nucleic acid bases by paper chromatography. Study of different stages of meiosis by temporary preparation/ permanent slides of onion flower buds.	B.Sc. (H) Biological Science, II Year	BS-C6: Concepts in Cell Biology
AUGUST	**Theory**	**Unit 5: Phylum Nemathelminthes:** General characters and classification up to classes; Life history of *Ascaris lumbricoides* and its parasitic adaptations.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 4. Enzymes: Introduction, kinetics, mechanism of action, inhibition, allosteric enzymes and regulation.	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Unit 8. Immune Effectors Mechanisms: Complement system: components, activation and functions.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Unit 7: Reptilia: General characteristics and classification up to order; Affinities of Sphenodon; Poison apparatus and Biting mechanism in snakes.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata
	Practicals:	One specimen/slide of any Ctenophore. Study of adult *Fasciola hepatica*, *Taenia solium* and their life cycles (Slides/micro-photographs).	B.Sc. (H) Zoology I Year	Non-chordates I: Protista to Pseudocoelomates

		Ouchterlony's double immunodiffusion method. ABO blood group determination.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Study of different stages of mitosis by temporary preparation/ permanent slides of onion root tips.	B.Sc. (H) Biological Science, II Year	BS-C6: Concepts in Cell Biology
SEPTEMBER	**Theory**	**Unit 8: Phylum Mollusca:** General characters and classification up to classes; Torsion in gastropods.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 6. Overview of Immune System: Historical perspective of Immunology, Early theories of Immunology, Adaptive (cell mediated and humoral).	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Unit 9. Hypersensitivity: Gell and Coombs classification, IgE mediated (type I), antibody mediated (type II).	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Unit 8: Aves: General characteristics and classification up to order Archaeopteryx- a connecting link; Principles and aerodynamics of flight.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata
	Practicals	Study of adult *Ascaris lumbricoides* and its life stages (Slides/micro-photographs). To submit a Project Report on any related topic on life cycles/coral/ coral reefs. Evaluation of students on their performance in practical and Record.	B.Sc. (H) Zoology I Year	Non-chordates I: Protista to Pseudocoelomates
		Preparation of single cell suspension of spleen. Preparation of single cell suspension of bone marrow.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Preparation of temporary slides of the following: a) Cytochemical staining of DNA by Fuelgen. b) Cytochemical staining of RNA by Methyl Green Pyronin. c) Cytochemical staining of polysaccharides by PAS. d) Cytochemical staining of proteins by Bromophenol blue. e) Cytochemical staining of histones by fast green. f) Vital staining of mitochondria by Janus green B in cheek epithelial cells.	B.Sc. (H) Biological Science, II Year	BS-C6: Concepts in Cell Biology
OCTOBER	**Theory**	**Unit 17: Mammals:** Classification up to orders; Origin of mammals.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Unit 6. Overview of Immune System: Passive: Artificial and Natural Immunity, Active: Artificial and Natural Immunity.	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Unit 9. Hypersensitivity: Immune complex mediated (type III) and T- DTH mediated hypersensitivity (type IV).	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Unit 8: Aves: Flight adaptations and Migration in birds.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata

	Practicals:	Study of whole mount of *Euglena*, *Amoeba* and *Paramecium*, Binary fission and Conjugation in *Paramecium.* Examination of pond water collected from different places for diversity in protista. Evaluation of students on their performance in practical and Record.	B.Sc. (H) Zoology I Year	Non-chordates I: Protista to Pseudocoelomates
		Viability and cell counting of peritoneal macrophages. Immuno-electrophoresis.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Identification and study of types of cancer, cancer cells by permanent slides/ photographs. Study of the following microscopic techniques by photographs: Fluorescence microscopy, autoradiography, positive staining, negative staining, freeze fracture, freeze etching, shadow casting. Study of ultastructure of cell.	B.Sc. (H) Biological Science, II Year	BS-C6: Concepts in Cell Biology
	Test	Mid-term Exam.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Mid-term Exam.	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Mid-term Exam.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Mid-term Exam.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata
NOVEMBER	**Theory:**	Revision and class test.	B.Sc. Life Sciences I year	FLS CC I Animal Diversity
		Revision and class test.	B.Sc. Life Sciences IIIrd Year	Paper 18-LSPT 510-Biochemistry and Immunology
		Revision and class test.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Revision and class test.	B.Sc. (H) Zoology II Year	CC V Diversity of Chordata
	Practicals:	Submission of File and animal album (coral and Coral reefs) containing photographs, cut outs, with appropriate write up • Preparations for Practical Examination • Mock tests	B.Sc. (H) Zoology I Year	Non-chordates I: Protista to Pseudocoelomates
		To perform Enzyme-linked immunosorbent assay (ELISA). Repetition of all practicals, and finalization of continuous assessment. Conduct of Mock examination.	B.Sc. (H) Zoology III Year	Paper 17-ZOHT 507: Immunology
		Revision and mock test.	B.Sc. (H) Biological Science, II Year	BS-C6: Concepts in Cell Biology

SEMESTER WISE TEACHING PLAN (2016-2017)
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)
		Introduction to Non-Chordates.	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC 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)
		Study of life history of honeybees, *Apis mellifera* from specimen/photographs: Eggs, larva, pupa, adult (queen, drone, worker). .	B.Sc. (H) Zoology Semester III	SEC: Apiculture

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)
		Unit 5: Platyhelminthes: General characteristics and Classification up to classes. Life cycle and pathogenicity of *Taenia solium.*	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC 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)
		Study of natural hive: specimen and photograph; Study of morphological structures of honmeybees through permanent slides/photographs- mouthparts, antenna, wings, legs (antenna cleaner, mid leg, pollen basket), sting apparatus.	B.Sc. (H) Zoology Semester III	SEC: Apiculture
SEPTEMBER	**Theory:**	**Unit 4: Muscle:** Histology of different types of muscle.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		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.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Unit 5: Platyhelminthes: Life cycle and pathogenicity of *Fasciola hepatica.* Parasitic adaptations.	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC I)

	Practicals:	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.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Study of different insect vectors through slides and specimen.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Mounting of pollen grain from flowers; Study of artificial hive (Langstroth/Newton), its various parts and other equipment of apiculture; Visit to IARI for studying Apiary and report submission.	B.Sc. (H) Zoology Semester III	SEC: Apiculture
OCTOBER	**Theory:**	**Unit 4: Muscle:** Ultra structure of skeletal muscle; Molecular and chemical basis of muscle contraction; Characteristics of muscle twitch.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Unit IV: Dipteran as Disease Vectors: Management strategies to control vectors.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Unit 6: Nemathelminthes: General characteristics and Classification up to classes. Life cycle, and pathogenicity of *Ascaris lumbricoides*.	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC I)

	Practicals:	Microtomy: Preparation of permanent slide of any five mammalian (Goat/white rat) tissues. Evaluation of studentson their performance in practical and Record.	B.Sc. (Hons) Zoology, Semester-III	Animal Physiology: Controlling and Coordinating Systems (CC VI)
		Diseases spread by vectors. Evaluation of students on their performance in practical and Record.	B.Sc. Semester-I GE I: Zoology	Insect Vector and Diseases (GE I)
		Study of bee pasturage: Making herbarium of nectar and pollen yielding flowering flowering plants.	B.Sc. (H) Zoology Semester III	SEC: Apiculture
	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)
		Mid-term test.	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC 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)
		Unit 6: Nemathelminthes: Life cycle, and pathogenicity of *Wuchereria bancrofti*. Parasitic adaptations in helminthes.	B.Sc. (Hons) Zoology, Semester-I	Non-Chordates I: Protists to Pseudocoelomates (CC 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)
		Practice and repetition of practicals; mock practical examination.	B.Sc. (H) Zoology Semester III	SEC: Apiculture

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

(2016-2017)-Odd Semester

Name of the Faculty: Dr. Vartika Mathur

Department: Zoology

Semester: I/III/V: Theory & Practicals: B.Sc. (H) Zoology Semester I (Ecology), Semester III (Apiculture) & V (Ecology)

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction; Ecotone & Edge effect	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Unit 1: Biology of Bees; History, Classification and Biology of Honey Bees	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Introduction, Unit 6: Ecosystem and Community- Definition; Types and examples of ecosystem	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	Practicals	Determination of dissolved Oxygen (Winkler's method)	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Study of life history of honeybees, Apis mellifera from specimen/photographs: Eggs, larva, pupa, adult (queen, drone, worker)	B.Sc (H) Zoology Semester III	SEC: Apiculture
		Study any five endangered/ threatened species- one from each class.	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
AUGUST	**Theory**	Vertical Stratification, ecological succession: Introduction, process of ecological succession, succession on a rock and in water; theories pertaining to climax community	B.Sc .(H) Zoology Semester I	CC II: Principles of Ecology
		Unit 1: Social Organization of Bee Colony; Unit 2: Rearing of Bees; Artificial Bee rearing (Apiary), Beehives – Newton and Langstroth; Bee Pasturage; Selection of Bee Species for Apiculture	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Terrestrial (grassland) and aquatic (pond) ecosytems; Unit 7: Community: Definition; Characteristics of community diversity, diversity index, types of biodiversity species richness, abundance, species area relationship	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology

	Practical:	Study of life table and plotting of survivorship curves of different types; Determination of population density in a natural/hypothetical community by quadrate method and calculation of Shannon-Weiner diversity index for the same community	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Study of natural hive: specimen and photograph; Study of morphological structures of honmeybees through permanent slides/photographs-mouthparts, antenna, wings, legs (antenna cleaner, mid leg, pollen basket), sting apparatus	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Study of the life table and fecundity table, plotting of the three types of survivorship curves from the hypothetical data; Study of the types of soil, their texture by sieve method and rapid tests for –pH, chlorides, nitrates, carbonates and organic carbon	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
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	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Unit 2: Bee Keeping Equipment; Methods of Extraction of Honey (Indigenous and Modern); Unit 3: Diseases and Enemies; Bee Diseases and Enemies; Control and Preventive measures	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Unit 7: Community stratification, ecotone/edge effect; succession, stages of primary succession, climax community.	B.Sc .(H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	Practicals	Determination of population density in a natural/hypothetical community by quadrate method and calculation of Shannon-Weiner diversity index for the same community; Study of an aquatic ecosystem: Study of Phytoplanktons and zooplanktons	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Mounting of pollen grain from flowers; Study of artificial hive (Langstroth/Newton), its various parts and other equipment of apiculture; Visit to IARI for studying Apiary and report submission	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Determination of population density in a terrestrial community or hypothetical community by quadrate method and calculation of the Simpson's and Shannon- Weiner diversity index for the same community; Principle of GPS (Global Positioning System).	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	<u>Assignment</u>	Succession on a rock (lithosere)/water (hydrosere)	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Different casts of honeybees	B.Sc (H) Zoology Semester III	SEC: Apiculture

		Ecotone and Edge effect	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
OCTOBER	**Theory**	Ecological pyramids and ecological efficiencies; nutrient and biogeochemical cycle with example of nitrogen cycle	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Unit 4: Bee Economy; Products of Apiculture Industry and its Uses (Honey, Bees Wax, Propolis), Pollen etc Unit 5: Entrepreneurship in Apiculture: Bee Keeping Industry – Recent Efforts,	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Energy flow through an ecosystem- food chains, food web, trophic levels, grazing and detritus type of food chain, Y-shaped food chain in forest, one example of food web- Terrestrial or Aquatic	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	Practicals:	Determination of pH of water and free CO2 of pond water; determination of dissolved oxygen; report preparation and submission on behavioural activity of animals based on field visit.	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Study of bee pasturage: Making herbarium of nectar and pollen yielding flowering flowering plants	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Study of all the biotic and abiotic components of any simple ecosystem- natural pond or terrestrial ecosystem or human modified ecosystem. Revision: Study of the life table and fecundity table	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	Mid Term Test	Unit 3: (community ecology)	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Unit 1 Introduction, Unit 6: Ecosystem and Communit, Unit 7 upto energy flow through ecosystem	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
NOVEMBER	**Theory:**	Human modified ecosystem; Revision	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology
		Modern Methods in employing artificial Beehives for cross pollination in horticultural gardens; Revision and doubt sessions	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Nutrient cycle, Nitrogen cycle. Application of the study of ecology in wild life conservation and sustainable development.; Revision	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology
	Practicals:	Practice and repetition of practicals; mock practical examination	B.Sc. (H) Zoology Semester I	CC II: Principles of Ecology

		Practice and repetition of practicals; mock practical examination	B.Sc. (H) Zoology Semester III	SEC: Apiculture
		Practice and repetition of practicals; mock practical examination	B.Sc. (H) Zoology Semester V	Paper 18 (ZOHT 508): Ecology

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Academic Planner: Odd Semester 2016 (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: Historical perspective of Immunology, Early theories of Immunology.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT
		Ecology Exponential and logistic growth, equation and patterns,	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	**Immunology** Dissection and display of lymphoid organs.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT
		Ecology Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided	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 Qualitative tests of functional groups in lipids.	B.Sc. (Hons.) Zoology Sem III SZH	CC VII
AUGUST	**Theory**	**Immunology** Unit 2. Components of immune system: Innate, Adaptive (cell mediated and humoral) - Passive: Artificial and Natural Immunity, Active: Artificial and Natural Immunity.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT
		Ecology r and K strategies Population regulation	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	**Immunology** Ouchterlony's double immunodiffusion method. ABO blood group determination.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT

		Ecology Determination of population density in a natural/hypothetical community by quadrate method and calculation of Shannon-Weiner diversity index for the same community	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		FUNDAMENTALS OF BIOCHEMISTRY Paper chromatography of amino acids. Action of salivary amylase under optimum conditions Repeated Action of salivary amylase under optimum conditions	B.Sc. (Hons.) Zoology Sem III SZH	CC VII
SEPTEMBER	**Theory**	**Immunology** Unit 3. Cells and Organs of the Immune System: Haematopoesis and role of haematpoietic factors, Cells of the immune system, Organs of the Immune system: Primary and Secondary lymphoid organs, Lymphatic system. Unit 4. Antigens : Antigenicity and immunogenicity, Immunogens, Adjuvants and Haptens, Factors influencing immunogenicity, B and T-cell epitopes. Unit 5. Immunoglobulins : Structure and Functions, Basic structure, deducing antibody structure, classes and function, Antigenic determinants on immunoglobulins, Antigen-antibody interactions, Polyclonal sera, Monoclonal antibodies, Hybridoma technology. Unit 6. Major Histocompatibility Complex: Structure, polymorphism and functions, MHC and immune responsiveness.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT
		Ecology Density-dependent and independent factors Population interactions, Gause's Principle with laboratory and field examples	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	**Immunology** Preparation of single cell suspension of spleen. Preparation of single cell suspension of bone marrow.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17- ZOHT
		Ecology Study of an aquatic ecosystem: Phytoplankton and zooplankton,Measurement of area, temperature,turbidity/penetration of light, determination of pH	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 salivary amylase Repetition of above experiments	B.Sc. (Hons.) Zoology Sem III SZH	CC VII

OCTOBER	**Theory**	**Immunology** Unit 7. Antigen Processing and Presentation: The cytosolic pathway: endogenous pathway and the endocytic pathway and exogenous pathway. Unit10. Immune System in Health & Disease: Vaccines: bacterial, viral, Toxoid and III generation vaccines, Immunodeficiency, Autoimmunity.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17-ZOHT
		Ecology Lotka-Volterra equation for competition and Predation, functional and numerical responses	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals	**Immunology** Viability and cell counting of peritoneal macrophages. Immuno-electrophoresis.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17-ZOHT
		Ecology Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO2	B.Sc. (Hons.) Zoology Sem I FZH	CC II
		FUNDAMENTALS OF BIOCHEMISTRY Effect of inhibitors on the action of salivary amylase Repetition of effect of temperature 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	Paper 17-ZOHT
		Test of Ecology From all units taught	B.Sc. (Hons.) Zoology Sem I FZH	CC II
NOVEMBER	**Theory**	**Immunology** Revision.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17-ZOHT
		Ecology Class discussion and revision of all the topics studied.	B.Sc. (Hons.) Zoology Sem I FZH	CC II
	Practicals:	**Immunology** To perform Enzyme-linked immunosorbent assay (ELISA). Repetition of all practicals, and finalization of continuous assessment. Conduct of Mock examination.	B.Sc. (Hons.) Zoology Sem V TZH	Paper 17-ZOHT
		Ecology Report on a visit to National Park/Biodiversity Park/Wild life sanctuary Repetition of all experiments Conduct of Mock examination.	B.Sc. (Hons.) Zoology Sem I FZH	CC II

		FUNDAMENTALS OF BIOCHEMISTRY Demonstration of proteins separation by SDS-PAGE Repetition of all experiments Conduct of Mock examination	B.Sc. (Hons.) Zoology Sem III SZH	CC VII

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Teaching Planner: Odd Semester 2016 (July – November)

Name of the Faculty: Dr. Ajaib Singh
Department: Zoology
Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	**Animal physiology: controlling and coordinating systems** Overview of endocrine system. Thyroid and parathyroid glands endocrinology	B.Sc (Hons) Zoology II year	CC VI
		Biochemistry and Immunology Glycolysis, Kreb's Cycle, Overview of Immune system	B.Sc (P) Life Sciences IIIrd Year	LSPT-510
		Physiology and Biochemistry Glycolysis, Gluconeogenesis Unit Test, Kreb's cycle	B.Sc (P) Life Sciences IInd Year	CC III
		Animal Diversity Phylum Porifera: General characters and classification up to classes; Canal System in Sycon	B.Sc (P) Life Sciences Ist Year	CC I
		Defence mechanisms Overview of innate and adaptive immunity, Cells and organs of the immune system	B.Sc (Hons) Biological Sciences IIIrd Year	Paper 31 (BIST-501)
	Practicals	**FUNDAMENTALS OF BIOCHEMISTRY** Qualitative tests of functional groups in carbohydrates. Qualitative tests of functional groups in proteins	B.Sc (Hons) Zoology II year	CC VII
		BIOCHEMISTRY AND IMMUNOLOGY Syllabus overview, general instructions and maintenance of lab record	B.SC (P) LIFE SCIENCES IIIRD YEAR	PAPER 18 (LSPT-510)
		PHYSIOLOGY AND BIOCHEMISTRY Study of permanent histological sections of pituitary, adrenal, thyroid gland.	B.SC (P) LIFE SCIENCES IIND YEAR	CCIII
AUGUST	**Theory**	Adrenal, Pituitary and Hypothalamus glands	B.Sc (Hons) Zoology II year	CC VI
		ETC, Oxidative phosphorylation Cells and Organs of Immune system.	B.Sc (P) Life Sciences IIIrd Year	LSPT-510

		Review of electron transport chain. Beta-oxidation and biosysnthesis	B.Sc (P) Life Sciences IInd Year	CC III
		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	CC I
		Compliment system, B-Cell Biology - Antibody structure, B-cell development	B.Sc (Hons) Biological Sciences IIIrd Year	Paper 31 (BIST-501)
	Practicals:	Action of salivary amylase under optimum conditions. Paper chromatography of amino acids.	B.Sc (Hons) Zoology II year	CC VII
		Blood group determination (ABO and Rh systems) Colour reactions for functional groups in carbohydrates Colour reactions for functional groups in proteins	B.SC (P) LIFE SCIENCES IIIRD YEAR	PAPER 18 (LSPT-510)
		Preparation of hemin and haemochromogen crystals. Qualitative tests to identify functional groups in carbohydrates.	B.SC (P) LIFE SCIENCES IIND YEAR	CCIII
SEPTEMBER	**Theory**	Pineal, Pancreas, Placental hormones. Hormones classification	B.Sc (Hons) Zoology II year	CC VI
		ATP Synthase, Shuttle system, Gluconeogenesis, Innate Immunity	B.Sc (P) Life Sciences IIIrd Year	LSPT-510
		Glycogen metabolism: Glycogenesis and Glycogenolysis. Unit Test, HMP shunt	B.Sc (P) Life Sciences IInd Year	CC III
		Phylum Platyhelminthes : General characters and classification up to classes; Life history of Taenia solium	B.Sc (P) Life Sciences Ist Year	CC I
		T-Cell Biology - T cell development , Structure of TCR, Thymic education	B.Sc (Hons) Biological Sciences IIIrd Year	Paper 31 (BIST-501)
	Practicals	Effect of pH, temperature and inhibitors on the action of salivary amylase.	B.Sc (Hons) Zoology II year	CC VII
		Ouchterlony's double immunodiffusion method Viability and cell counting of peritoneal macrophages and splenocytes Study of lymphoid organs (spleen, thymus and lymph node)	B.SC (P) LIFE SCIENCES IIIRD YEAR	PAPER 18 (LSPT-510)

		Study of activity of salivary amylase under optimum conditions. Estimation of total protein in given solution by Lowry's method.	B.SC (P) LIFE SCIENCES IIND YEAR	CCIII
OCTOBER	**Theory**	Mode of hormone actions, Signal transduction pathways.	B.Sc (Hons) Zoology II year	CC VI
		Pentose phosphate pathway, Glycogenesis, Glycogenolysis, Transamination, Deamination Compliment system.	B.Sc (P) Life Sciences IIIrd Year	LSPT-510
		Transamination, Deamination, Urea Cycle	B.Sc (P) Life Sciences IInd Year	CCIII
		Reptiles : General features and Classification up to orders; Poisonous and non-poisonous snakes, Biting mechanism in snakes	B.Sc (P) Life Sciences Ist Year	CC I
		Antigen Processing and Presentation, Cell mediated immune response; Mucosal immune system	B.Sc (Hons) Biological Sciences IIIrd Year	Paper 31 (BIST-501)
	Practicals:	Qualitative tests of functional groups in proteins Demonstration of proteins separation by SDS-PAGE.	B.Sc (Hons) Zoology II year	CC VII
		Study of salivary amylase action under optimal conditions Study of trypsin action under optimal conditions Identification of the functional groups in the given unknown solutions of carbohydrates and proteins	B.SC (P) LIFE SCIENCES IIIRD YEAR	PAPER 18 (LSPT-510)
		Revision of above experiments	B.SC (P) LIFE SCIENCES IIND YEAR	CCIII
NOVEMBER	**Theory:**	Revision and Unit tests	B.Sc (Hons) Zoology II year	CC VI
		Urea cycle	B.Sc (P) Life Sciences IIIrd Year	LSPT-510
		Assignments, Revision and Unit tests	B.Sc (P) Life Sciences IInd Year	CC III

		Assignments, Revisions and Tests	B.Sc (P) Life Sciences Ist Year	CC I
		Techniques based on antigen- antibody interactions	B.Sc (Hons) Biological Sciences IIIrd Year	Paper 31 (BIST-501)
	Practicals:	Revisions and Mock tests.	B.Sc (Hons) Zoology II year	CC VII
		Revision and guidance for practical exams	B.SC (P) LIFE SCIENCES IIIRD YEAR	PAPER 18 (LSPT-510)
		Mock test	B.SC (P) LIFE SCIENCES IIND YEAR	CCIII

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
July-November 2016, (Session 2016-17)

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 V (Evolution and adaptation), 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	B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
		General Introduction	B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
	Practicals :	General Introduction , light penetration in water using Secchi disc	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		• General Introduction	General Elective 3- Zoology Batch I	GE3: (Food, health & nutrition)
		• General Introduction	General Elective 3- Zoology Batch 2	GE3: (Food, health & nutrition)
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)

		Evolution as seen in Geological record:Types of fossils, dating of fossils	B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
		Relevance of studying ecology, its history autecology, synecology. Species (Sympatric and Allopatric), Population, Community. Abiotic Factors: Laws of limiting factors- Liebig's law of minimum and Shelford's law of tolerance.	B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
	Practicals :	• 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)
		• Titration of Ascorbic acid; Food • Adulteration; Stored grain pest	General Elective 3-Zoology Batch I	GE3: (Food, health & nutrition)
		• Titration of Ascorbic acid; Food • Adulteration; Stored grain pest	General Elective 3-Zoology Batch 2	GE3: (Food, health & nutrition)
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)
		Extinction. Periodic and mass scale, possible causes Species concept , sub species	B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
		A brief account of light and temperature as limiting factors, soil types and soil erosion. Niche concept, Gause's principle of competitive exclusion with laboratory and field examples,	B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
	Practicals :	• Photographs of bioluminescent organisms (plants and animals), • *Berle*se funnel experiment to demonstrate the effect of light on soil fauna • To study the effect of light/darkness on development of insect *(Spodoptera)* • To study the phototactic behavior of different larval instars of *Spodoptera*	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)

		• Titrations: Calcium and Ascorbic • acid, stored grain pest	General Elective 3-Zoology Batch I	GE3: (Food, health & nutrition)
		• Titrations: Calcium and Ascorbic • acid, stored grain pest	General Elective 3-Zoology Batch 2	GE3: (Food, health & nutrition)
	Assignment		B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
			B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
			B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
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)
		Isolation mechanisms, modes of speciation (allopatric, sympatric, peripatric), anagenesis & cladogenesis, levels of evolutionary change (micro & macroevolution)	B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
		Lotka Volterra Equation for prey predator interaction, functional and numerical responses of prey and predator	B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
	Practicals :	• To study the estrous cycle of rat • Revision	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		• Titration of Lactose +Revision	General Elective 3-Zoology Batch I	GE3: (Food, health & nutrition)
		• Titration of Lactose +Revision	General Elective 3-Zoology Batch 2	GE3: (Food, health & nutrition)
	Mid Term Test		B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)

			B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
			B.Sc. H . Zoology Sem V	ZOHT-508 (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)
		Evolution of Man	B.Sc. H . Biological Science sem V	BIST-502 (Evolution and adaptation)
		Definition, Types and examples of ecosystem- terrestrial (grassland) and aquatic (pond).	B.Sc. H . Zoology Sem V	ZOHT-508 (Ecology)
	Practicals :	• Revision • Mock Practical test	B.Sc. H . Biological Science Sem I	BS-C2 (Light and Life)
		• Revision • Mock Practical test	General Elective 3- Zoology Batch I	GE3: (Food, health & nutrition)
		• Revision • Mock Practical Test	General Elective 3- Zoology Batch 2	GE3: (Food, health & nutrition)

SEMESTER WISE TEACHING PLAN (2016-2017)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Mansi Verma **Department: Zoology**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory:**	Enzymes: Basics + Nomenclature	B.Sc (Hons) Zoology II year	Fundamentals of Biochemistry
		Sex Determination: Chromosomal Mechanism	B.Sc (Hons) Zoology III	Genetics and Genomics I
		Mitochondria	B Sc (Hons) Biological Sciences II year	Concepts in Cell Biology
	Practicals:	Histology Slides	B.Sc. Life Sciences II Year	Biochemistry and Physiology
			General Elective GE	Food Nutrition and Health
August	Theory	Cofactors, specificity of enzyme action, isozymes, mechanism of enzyme action , Enzyme Kinetics	B.Sc (Hons) Zoology II year	Fundamentals of Biochemistry
		Sex Determination: Env. Factors, Barr Bodies, Dosage Compensation	B.Sc (Hons) Zoology III	Genetics and Genomics I
		Mitochondria, Protein Sorting and Transport	B Sc (Hons) Biological Sciences II year	Concepts in Cell Biology
	Practical	Carbohydrate test, Haemin Haemochromogen crystals	B.Sc. Life Sciences II Year	Biochemistry and Physiology
		Titration of Ascorbic acid; Food Adulteration; Stored grain pest	General Elective GE	Food Nutrition and Health
September	Theory	Multisubstrate reaction, enzyme inhibition, allosteric enzymes, regulatory enzymes, Structure of purines and pyramidines Class Test + Assignment	B.Sc (Hons) Zoology II year	Fundamentals of Biochemistry
		Extrachromosomal inheritance Class Test + Assignment	B.Sc (Hons) Zoology III	Genetics and Genomics I
		Apoptosis, stem cells and therapeutic cloning, Microtubules Class Test	B Sc (Hons) Biological Sciences II year	Concepts in Cell Biology
	Practical	Titrations: Calcium and Ascorbic acid, stored grain pest	General Elective GE	Food Nutrition and Health
		Salivary Amylase test, Histology Slides	B.Sc. Life Sciences II Year	Biochemistry and Physiology
	Assignment			
October	Theory	Microfilaments, Intermediate Filaments,	B.Sc (Hons) Zoology II year	Fundamentals of Biochemistry
		Quantitative Genetics	B.Sc (Hons) Zoology III	Genetics and Genomics I
		Cell Signaling	B Sc (Hons) Biological	Concepts in Cell Biology

			Sciences II year	
	Practical	Titration of Lactose +Revision	General Elective GE	Food Nutrition and Health
		Lowry's estimation + Revision	B.Sc. Life Sciences II Year	Biochemistry and Physiology
	Mid Term Test			
November		Revision	B.Sc (Hons) Zoology II year	Fundamentals of Biochemistry
		Revision	B.Sc (Hons) Zoology III	Genetics and Genomics I
		Cancer + Revision	B Sc (Hons) Biological Sciences II year	Concepts in Cell Biology
	Practicals	Mock Test	B.Sc. Life Sciences II Year	Biochemistry and Physiology
		Mock Test	General Elective GE	Food Nutrition and Health

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Academic Planner: Odd Semester 2016 (July – November)

Name of the Faculty: Dr.P.Jayaraj
Department: Zoology
Semester : V
Course: B.Sc. (Hons.) Zoology Part III
Paper Title: Developmental Biology Code: ZOHT 509 (Theory) / ZOHP 509

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Unit I- Introduction Historical background of Developmental biology	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHT 509
		Unit 2: Porifera General characteristics and Classification up to classes,Canal system in sponges	B.Sc (H) Zoology CBCS Core course-I	Non-chordates I: Protista to Pseudocoelomates
		Unit 10: Protochordates General features and Phylo&eny of Protochordata	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY
	Practicals	Syllabus overview, general instructions and maintenance of lab record Study Frog Developmental Stages-whole mount and sections From permanent slides: 2 celled, 4 celled, 8 celled, Blastula and gastrula	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHP 509
		NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES 3. Study of *Sycon* (T.S. and L.S.), *Hyalonema, Euplectella, Spongilla* 4. Study of *Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora*	Core Course-I Practical	Non-chordates I: Protista to Pseudocoelomates

		Syllabus overview, general instructions and maintenance of lab record I. Study of the following specimens: *: Amoeba, Euglena, Plasmoditiln, Paramecium, Sycon, Hyalonema,* and *Euplectella, Obelia, Physulia, Aurelia, Tubipora, Mertidium*	Core Course-I ANIMAL DIVERSITY Practical	ANIMAL DIVERSITY
AUGUST	**Theory:**	Unit 2 Early development of Xenopus/Frog Chick Gasrtulation Fate maps	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHT 509
		Unit 3: Cnidaria General characteristics and Classification up to classes ,Metagenesis in *Obelia* ,	B.Sc (H) Zoology CBCS Core course-I	Non-chordates I: Protista to Pseudocoelomates
		Unit 11: Agnatha General features of Agnatha and classification of cyclostomes up to classes	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY
	Practicals:	• 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 • Study of Drosophila culture	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHT 509
		NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES 5. One specimen/slide of any ctenophore 6. Study of adult *Fasciola hepatica*, *Taenia solium* and their life cycles (Slides/micro-photographs)	Core Course-I Practical	Non-chordates I: Protista to Pseudocoelomates
		Taenia solium, Male and female *Ascaris lumbricoides, Aphrodite, Nereis, Pheretima, Hirudinaria, Palaemon,. Cancer, Limulus, Palamnaeus, Scolopendru, Periplaneta, Julus, Apis,*	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY
SEPTEMBER	**Theory:**	Unit 2 cont.. Embryonic induction and organiser Formation of Neural tube	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHT 509

		Polymorphism in Cnidaria ,Corals and coral reefs	B.Sc (H) Zoology CBCS Core course-I	Non-chordates I: Protista to Pseudocoelomates
		Unit 12: Pisces General features and Classification up to orders; Osmoregulation in Fishes	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY

SEPTEMBER	**Practicals:**	Study of developmental stages and life cycle from fruit fly stock culture		Developmental Biology ZOHT 509
		7. Study of adult *Ascaris lumbricoides* and its life stages (Slides/micro-photographs) 8. To submit a Project Report on any related topic on life cycles/coral/ coral reefs. Evaluation of students on their performance in practical and Record	Core Course-I Practical	Non-chordates I: Protista to Pseudocoelomates
		Study of : Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus, Pentaceros, Ophiura, Echinus, Cucumaria and *Antedon, Balanoglossus, Herdmania, Branchiostoma, Petromyzon, Sphyrna, Pristis, Torpedo, • Labeo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra, Bulb, Hyla,*		ANIMAL DIVERSITY
	Assignment :	Separate topics were assigned to students students	**B.Sc. (Hons.) Zoology Part III**	Developmental Biology ZOHT 509
OCTOBER	**Theory:**	Gametogenesis : Spermiogenesis and Oogenesis Implantation of the embryo in humans	**B.Sc. (Hons.) Zoology Part III**	Developmental Bilology
		Unit 4: Ctenophora 4 General characteristics	B.Sc (H) Zoology CBCS Core course-I	Non-chordates I: Protista to Pseudocoelomates
		Unit 13: Amphibia 4 General features and Classification up to orders; Parental care	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY

	Practicals :	Sections of Placenta or whole mount	**B.Sc. (Hons.) Zoology Part III**	Developmental Bilology
		Study of whole mount of *Euglena, Amoeba* and *Paramecium,* Binary fission and Conjugation in *Paramecium* 2. Examination of pond water collected from different places for diversity in protista Evaluation of students on their performance in practical and Record	Core Course-I Practical	Non-chordates I: Protista to Pseudocoelomates
		Bulb, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Vipera, Nafa, Crocodylus, Gavialis, Any six common birds from different orders, *Sorex,* Bat, *Funatnbulus, Loris* Key for Identification of poisonous and non-poisonous snakes Evaluation of students on their performance in practical and Record	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY
	<u>Test</u>	Test on topics covered during the month of July-october end • B.Sc (H) Zoology CBCS Core course-I • **B.Sc. (Hons.) Zoology Part III** • B.Sc Life Sciences Core course I		
NOVEMBER	**Theory:**	Placentation	**B.Sc. (Hons.) Zoology Part III**	Developmental Bilology
		Ctenophore : Evolutionary significance	B.Sc (H) Zoology CBCS Core course-I	Non-chordates I: Protista to Pseudocoelomates
		Unit 15: Aves General features and Classification up to orders; Flight adaptations in birds	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY

Practicals :	Submission of File and project report on drosophila culture • Preparations for Practical Examination • Mock Tests	**B.Sc. (Hons.) Zoology Part III**	Developmental Bilology
	Submission of File and animal album (coral and Coral reefs) containing photographs, cut outs, with appropriate write up • Preparations for Practical Examination • Mock tests	Core Course-I Practical	Non-chordates I: Protista to Pseudocoelomates
	Submission of File and animal album" containing photographs, cut outs, with appropriate write Mock test	B.Sc Life Sciences CORE COURSE I ANIMAL DIVERSITY	ANIMAL DIVERSITY

SEMESTERWISE TEACHING PLAN

Name: Dr. Riyaz Bakshi Dept. Zoology

Courses: 1) B.Sc (Hons) Zoology II year Animal Physiology & Chordata

2) B.Sc. Life Sciences II year, Physiology and biochemistry

3) B Sc (Hons) Generic elective II year GE

4). B.Sc. Biological Sciences, Functional Ecology, II Year

Month		Theory	Practicals
July	SZH	Unit 1. Epithelial, Connective	Introduction to Physiology Practicals
	SZH	Diversity of Chordata: Mammals General Character	
	SLS	Structure of neurons & types	SEC: Medical diagnosis & Haemin & haemochromogen crytals
	SBS	Populations and types	
	GE	Lipid	
August	SZH	Unit 1. Muscular & Nervous Tissues	Permanent Histology slides, Muscle Twitch Recording-Videos dry lab calculations
	SZH	Diversity of Chordata: Mammals Classification up to Order & Affinities of Prototheria	
	SLS	Origin of action potential	SEC: Medical diagnosis & Permanent Slides
	SBS	Growth , competition, & others	
	GE	Prorien & Carbohydrates	
September	SZH	Histology of Bone & Cartilage	Demonstration of knee jerk, Temporary mounts. Study of permanent slides
	SZH	Zoogeographical realms, Theories pertaining to	

		distribution of animals	
	SLS	Structure of muscles with mach. Of contraction	SEC: Medical diagnosis & Qualitative tests of Carbohydrates
	SBS	Niche, Gause Principle	
	GE	Vitamins	
October	SZH	Histology of testis & ovary	Microtomy
	SZH	Plate tectonic and Continental drift theory,	
	SLS	Digestions of proyein, carbo. & fat	SEC: Medical diagnosis & Estimations of protein
	SBS	Species , Prey & Predation	
	GE	Minerals	
November	SZH	Physiology of male & female reproduction	Mock practicals.
	SZH	Distribution of vertebrates in different realms	
	SLS	Enzymes	SEC: Medical diagnosis & Study of salivary amylase action
	SBS	Behavioral Ecology	
	GE	Major nutritional deficiency	

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
July-Nov, 2016-17 (Odd)

Name of the Faculty: Dr. Vagisha Rawal

Department: Zoology

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
July	**Theory:**	**Introduction to Insects** • General Features of Insects, • Morphological features, Head – Eyes,	B.Sc. (Hons.) Zoology Sem I FZH	Insect vector & diseases GE-8
		Ecology • Ecosystem and its components	B.Sc. (Hons.) Zoology Sem V TZH	Paper 18 (ZOHT 508): Ecology
		Basic concept of food and nutrition • Food Components and food-nutrients Concept of a balanced diet, nutrient needs and dietary pattern for various groups-adults, pregnant and nursing mothers, infants, school children, adolescents and elderly	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
		Medical Dignostics Unit 1:Introduction to Medical Diagnostics and its Importance • Unit 2: Diagnostics Methods Used for Analysis of Blood	Biological Science Sem III, SBS	Medical diagnostics (SEC)
	Practicals: (4+4+4=12)	Insect vector & Diseases • Study of different kinds of mouth parts of insects	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8

		Genetics and Genomics • Study of human karyotype (normal and abnormal:Down's syndrome or trisomy 21, Edward's syndrome or trisomy 18, Patau syndrome or trisomy 13, Cri du chat syndrome or 5p minus syndrome (partial deletion of short arm of chromosome 5), Klinefelter's syndrome or presence of additional X chromosome in males,Turner syndrome or presence of only a single X chromosome in females, XYY syndrome and XXX syndrome	B.Sc.(H) Zoology Sem V TZH	GGHP 501: Genetics and Genomics-I
August	**Theory:**	**Concept of Vectors** • Brief introduction of Carrier and Vectors (mechanical and biological vector),Reservoirs, Host-vector relationship, Vectorial capacity, • Adaptations as vectors, Host Specificity • Types of antennae, Mouth parts w.r.t. feeding habits	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Ecology • Limiting factors of distribution: biotic and abiotic • .	B.Sc. (Hons.) Zoology Sem V TZH	Paper 18 (ZOHT 508): Ecology
		Medical diagnostics Unit 3:Diagnostic Methods Used for Urine Analysis	Biological Science Sem III, SBS	Medical diagnostics (SEC)
		Food Nutrition and Health • Concept of a balanced diet, nutrient needs and dietary pattern for various groups- adults, pregnant and nursing mothers, infants, school children, adolescents and elderly	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
	Practicals: (4+4+4=12)	Insect vector & Diseases • Study of following insect vectorsthrough permanent slides/ photographs: *Aedes, Culex,Anopheles, Pediculus humanus capitis, Pediculus humanus corporis, Phithirus pubis, Xenopsylla cheopis, Cimex lectularius, Phlebotomus argentipes,Musca domestica,* through permanent slides/ photographs	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Genetics and Genomics • To study the Mendelian laws and gene interactions. • Chi-square analyses using seeds/beads/*Drosophila*.	B.Sc.(H) Zoology Sem V TZH	GGHP 501: Genetics and Genomics-I

		• Study of Hardy-Weinberg Law using simulations (seeds).		
September	**Theory:**	**Siphonaptera as Disease Vectors** • Fleas as important insect vectors; Host-specificity, Study of Flea-borne diseases – Plague, Typhus fever; Control of fleas **Hempitera as Disease Vectors** Bugs as insect vectors; Blood-sucking bugs; Chagas disease, Bed bugs as mechanical vectors, Control and prevention measures	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Ecology • Biomes of the world • Soil: types and soil profile	B.Sc. (Hons.) Zoology Sem V TZH	Paper 18 (ZOHT 508): Ecology
		Medical diagnostics • Unit 4:Non-infectious Diseases • Unit 5:Infectious Diseases	Biological Science Sem III, SBS	Medical diagnostics (SEC)
		Health • 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	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
	Practicals (4+4+4=12)	Insect vector & Diseases • Study of following insect vectorsthrough permanent slides/ photographs: *Aedes, Culex,Anopheles*, *Pediculus humanus capitis, Pediculus humanus corporis, Phithirus pubis*, *Xenopsylla cheopis, Cimex lectularius, Phlebotomus argentipes,Musca domestica,* through permanent slides/ photographs	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Genetics and Genomics • Linkage maps based on data from conjugation, transformation and transduction. • Linkage maps based on data from *Drosophila* crosses	B.Sc.(H) Zoology Sem V TZH	GGHP 501: Genetics and Genomics-I
October	**Assignment**	Insect vector & Diseases • Mosquito control strategies	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8

		Ecology • .	B.Sc. (Hons.) Zoology Sem V TZH	Paper 18 (ZOHT 508): Ecology
		Medical diagnostics •	Biological Science Sem III, SBS	Medical diagnostics (SEC)
		• Life style related diseases- hypertension, diabetes mellitus, and obesity	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
	Mid Term Test	Genetics and Genomics • All the topics covered	B.Sc.(H) Zoology Sem V TZH	GGHP 501: Genetics and Genomics-I
		Insect vector & Diseases • All the topics covered	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Food Nutrition and Health • All the topics covered	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
November	**Theory:**	Insect vector & Diseases • Revision	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Ecology • .	B.Sc. (Hons.) Zoology Sem V TZH	Paper 18 (ZOHT 508): Ecology
		Medical diagnostics •	Biological Science Sem III, SBS	Medical diagnostics (SEC)
		Food Nutrition and Health • Revision	B.Sc. (Hons.) Zoology Sem III SZH	Food Nutrition and Health GE-3
	Practicals:	Insect vector & Diseases • Submission of a project report on any one of the insect vectors and disease transmitted • Revision/Mock test	B.Sc. (Hons.) Zoology Sem I	Insect vector & diseases GE-8
		Genetics and Genomics • Revision/Mock test	B.Sc.(H) Zoology Sem V TZH	GGHP 501: Genetics and Genomics-I

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	History of Indian Language (Tamil) Semantic Changes	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Types and Explanation of Folk songs	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) Interview	B.A Prog Tamil AECC	72082807
August	Theory	History of Indian Language (Tamil) Phonological and Morphological Changes	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Folk songs and Myth	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) Group Discussion and Conversation	B.A Prog Tamil AECC	72082807

Month	Theory/Practical	Topics	Course	Paper code/Name
September	Theory Assignment	History of Indian Language (Tamil) Syntactical Changes History of Tamil Language (I Part)	B.A Prog Tamil Language	62081104
	Theory Assignment	Oral Traditions : Folk Tales, Songs and Myth Myth and literature Folk Songs and Myth	B.A Prog Tamil Discipline	62081108
	Theory Assignment	MIL Communications (Tamil) Letter writing Interview and Letter writing	B.A Prog Tamil AECC	72082807
October	Theory Mid-Term Test	History of Indian Language (Tamil) History of Scripts History of Tamil Language	B.A Prog Tamil Language	62081104
	Theory Mid-Term Test	Oral Traditions : Folk Tales, Songs and Myth Mythology Oral Traditions	B.A Prog Tamil Discipline	62081108
	Theory Mid-Term Test	MIL Communications (Tamil) Comprehension Tamil Communications	B.A Prog Tamil AECC	72082807
November	Theory	History of Indian Language (Tamil) History of Tamil Scripts	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Growth of literature from Myth	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) Practical writing of Tamil Communications	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	History of Ancient Tamil Lierature Three Sangams	B.A Prog Tamil Language	62081325
	Theory	Cultural Behavior of the Tamils Cultural Behavior	B.A Prog Tamil Discipline	62081327
August	Theory	History of Ancient Tamil Lierature Ettut-Thokai and Pathuppaattu	B.A Prog Tamil Language	62081325
	Theory	Cultural Behavior of the Tamils Customs and Social aspects of Tamils	B.A Prog Tamil Discipline	62081327
September	Theory Assignment	History of Ancient Tamil Lierature Ettut-Thokai and Pathuppaattu Sangam Literature	B.A Prog Tamil Language	62081325
	Theory Assignment	Cultural Behavior of the Tamils 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	Selected Texts : Novel & Short Story (Tamil) History of Tamil short Story	B.A Prog Tamil Discipline	62087504
August	Theory	Selected Texts : Novel & Short Story (Tamil) First Five Short Stories	B.A Prog Tamil Discipline	62087504
September	Theory Assignment	Selected Texts : Novel & Short Story (Tamil) Second Five Short Stories Modern Short Stories in History of short story Literature	B.A Prog Tamil Discipline	62087504
October	Theory Mid Term Test	Selected Texts : Novel & Short Story (Tamil) Last Two Short stories and cultural reflections of the fictions Short story and Novel	B.A Prog Tamil Discipline	62087504
November		Selected Texts : Novel & Short Story (Tamil) 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	History of Ancient Tamil Literature History of Three Sangams and Tholkaappiyam	B.Com Prog Tamil Language	52081325
August	Theory	History of Ancient Tamil Literature Sangam Literature	B.Com Prog Tamil Language	52081325
September	Theory Assignment	History of Ancient Tamil Lierature Ethical Literature Epic Literature	B.Com Prog Tamil Language	52081325
October	Theory Mid Term Test	History of Ancient Tamil Literature Major five Epics History of Ancient Tamil Lierature	B.Com Prog Tamil Language	52081325
November	Theory	History of Ancient Tamil Literature 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	History of Indian Language (Tamil) Sources of Tamil Language History	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Folk Traditions in Tamil	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) History of Translation	B.A Prog Tamil AECC	72082807
August	Theory	History of Indian Language (Tamil) Dravidian Languages and Tamil	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Definition and Types of Folk Tales	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) History and Types of Public Speech	B.A Prog Tamil AECC	72082807

Month	Theory/Practical	Topics	Course	Paper code/Name
September	Theory Assignment	History of Indian Language (Tamil) Special Features in South Dravidian Languages History of Tamil Language (II Part)	B.A Prog Tamil Language	62081104
	Theory Assignment	Oral Traditions : Folk Tales, Songs and Myth Folk-lore and Culture of Tamils Folk Tales and Culture of the Tamils	B.A Prog Tamil Discipline	62081108
	Theory Assignment	MIL Communications (Tamil) Business Letter writing in Tamil Public Speech in Tamil	B.A Prog Tamil AECC	72082807
October	Theory Mid-Term Test	History of Indian Language (Tamil) Dialects in Tamil History of Tamil Language	B.A Prog Tamil Language	62081104
	Theory Mid-Term Test	Oral Traditions : Folk Tales, Songs and Myth Customs and Culture through Folk Literature Oral Traditions	B.A Prog Tamil Discipline	62081108
	Theory Mid-Term Test	MIL Communications (Tamil) Practical Translations Tamil Communications	B.A Prog Tamil AECC	72082807
November	Theory	History of Indian Language (Tamil) Types of Dialects	B.A Prog Tamil Language	62081104
	Theory	Oral Traditions : Folk Tales, Songs and Myth Analysis of Tamil Literary text through Folk tale	B.A Prog Tamil Discipline	62081108
	Theory	MIL Communications (Tamil) Practical Public Speeches in Tamil	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	History of Ancient Tamil Literature Tamil Bakthi Literature	B.A Prog Tamil Language	62081325
	Theory	Cultural Behavior of the Tamils Definition of Culture	B.A Prog Tamil Discipline	62081327
August	Theory	History of Ancient Tamil Literature Nayanmars in Bakthi Literature	B.A Prog Tamil Language	62081325
	Theory	Cultural Behavior of the Tamils Life style of Tamils	B.A Prog Tamil Discipline	62081327
September	Theory Assignment	History of Ancient Tamil Literature Azhvars in Bakthi Literature Bakthi Literature in Tamil	B.A Prog Tamil Language	62081325
	Theory Assignment	Cultural Behavior of the Tamils 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	History of Ancient Tamil Literature Saiva and Vaishnava Literature History of Ancient Tamil Literature	B.A Prog Tamil Language	62081325
	Theory Mid Term Test	Cultural Behavior of the Tamils History of Culture through Literature Cultural Behavior of the Tamils	B.A Prog Tamil Discipline	62081327
November	Theory	History of Ancient Tamil Literature Minor Literature in Tamil	B.A Prog Tamil Language	62081325
	Theory	Cultural Behavior of the Tamils 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	Selected Texts : Novel & Short Story (Tamil) History of Tamil Novel Literature	B.A Prog Tamil Discipline	62087504
August	Theory	Selected Texts : Novel & Short Story (Tamil) Characterization of the Novel THAGANAM	B.A Prog Tamil Discipline	62087504
September	Theory Assignment	Selected Texts : Novel & Short Story (Tamil) 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	Selected Texts : Novel & Short Story (Tamil) Plot of Thganam Novel Modern Short story and Thaganam Novel	B.A Prog Tamil Discipline	62087504
November		Selected Texts : Novel & Short Story (Tamil) 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	History of Ancient Tamil Lierature History of Bakthi Literature	B.Com Prog Tamil Language	52081325
August	Theory	History of Ancient Tamil Lierature History of Nayanmars	B.Com Prog Tamil Language	52081325
September	Theory Assignment	History of Ancient Tamil Lierature History of Aazhvars Bakthi Literature	B.Com Prog Tamil Language	52081325
October	Theory Mid Term Test	History of Ancient Tamil Lierature Thevaaram Thiruvasakam and Naalaayira Divya Prabandam History of Ancient Tamil Lierature	B.Com Prog Tamil Language	52081325
November	Theory	History of Ancient Tamil Lierature 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 (2016-2017)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Rajbir Kaur

Department: History

Semester: III

Month		Topics	Course	Paper Code/ Name
JULY	**Theory:**	I. Studying Early Medieval India: Debates on Indian Fedualism	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		1. An account of many Cities	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
	Tutorials:	Introducing the course and its themes.		
		Discussion		
AUGUST	**Theory:**	II. Political Structures: (a) Evolution of political structures: Rashtrakutas, Palas, Pratiharas, Rajputs and Cholas (b) Legitimization of kingship; brahmanas and temples; royal genealogies and rituals (c) Arab conquest of Sindh: nature and impact of the new set-up; Ismaili dawah (d) Causes and consequences of early Turkish invasions: Mahmud of Ghazni; Shahab-ud-Din of Ghur	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		2. Delhi as Imperial Camp & City	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
	Tutorials:	Discussion with the tutorial groups on the topics already taken up in the lectures		
		Interaction and Queries		

SEPTEMBER	**Theory:**	III. Agrarian Structure and Social Change: (a) Agricultural expansion; crops (b) Landlords and peasants (c) Proliferation of castes; status of untouchables (d) Tribes as peasants and their place in the Varna order	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		3. Delhi as Economic Centre	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
	Tutorials:	Discussion with regard to specific readings given for study		
	Assignment:	Write a critical essay on the debate regarding the characterisation of the Early Medieval Society as Feudal.	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		Discuss about the evolution of Delhi during 13th-14th Centuries with focus on any one of the city of Medieval Delhi.	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
OCTOBER	**Theory:**	IV. Trade and Commerce: (a) Inter-regional trade (b) Maritime trade (c) Forms of exchange (d) Process of urbanization (e) Merchant guilds of South India	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		4. Delhi as Social & Cultural Centre	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
	Tutorials:	Discussion group for Hindi medium students		
	Mid Term Test:	Internal Class Test held on 17th October 2016	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		Internal Class Test held on 18th October 2016	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval

NOVEMBER	**Theory:**	V. Religious and Cultural Developments: (a) Bhakti, Tantrism, Puranic traditions; Buddhism and Jainism; Popular religious cults (b) Islamic intellectual traditions: Al-Biruni; Al-Hujwiri (c) Regional languages and literature (d.) Art and architecture: Evolution of regional styles	B.A. (Hons.) IInd Year	Core - History of India-III (c.750-1206)
		Revision and Assignment presentations	B.A. (Hons.) IInd Year	G.E. III - Delhi: Medieval
	Tutorials:	Revision of the courses		
		Discussion on previous year's question papers		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
July-November, 2016

Name of the Faculty: NEERAJ SAHAY

Department: HISTORY

Semester: I & III

Month		Topics	Course	Paper Code/Name
JULY	**Theory:**	UNIT I 1. Reconstructing Ancient Indian History: landscapes and environment, Sources and methods	B.A. Honours I	Core Course I, Paper-History of India-I
		UNIT I 1. Definitions: Antiquity and Archaeological Sites	B.A. Honours II	SEC/Paper-Understanding Heritage
	Practicals:	N/A		
	Tutorials:	Discussion on geography-history interrelationship, critical examination of sources, questions-answers session	B.A. Honours I	Core Course I, Paper-History of India-I
		N/A	B.A. Honours II	SEC/Paper-Understanding Heritage
AUGUST	**Theory:**	UNIT I 1. Reconstructing Ancient Indian History: Changing Historical Interpretation and early Indian Historical Traditions UNIT II 1. Palaeolithic Culture: Sequence, distribution and technology 2. Mesolithic Culture: Sequence, distribution and technology 3. Mesolithic Art	B.A. Honours I	Core Course I, Paper-History of India-I
		UNIT I 1. Definitions: Tangible and intangible heritage, Art Treasure UNIT II 1. Heritage Legislations: Evolution of acts and conventions 2. Institutional Support 3. Conservation History	B.A. Honours II	SEC/Paper-Understanding Heritage

	Practicals:	N/A		
	Tutorials:	Discussions on changing perspectives from colonial to recent times, *Itihasa-Purana* 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:**	UNIT III 1. Food Production (Neolithic): Distribution of sites, regional variations and special reference to Mehrgarh 2. Chalcolithic Cultures: regional distribution, features and variations	B.A. Honours I	Core Course I, Paper-History of India-I
		UNIT III 1. Challenges to Heritage: Antiquity Smuggling, conflicts and 'development'	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
	Assignment	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
		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**	UNIT IV Harappan Civilization: origins and decline, society, polity, agriculture, trade,, technology, religion, art UNIT IV 1. Heritage and Travel: Viewing Heritage Sites	B.A. Honours I B.A. Honours II	Core Course I, Paper-History of India-I SEC/Paper-Understanding Heritage
	Practicals:	N/A		
	Tutorials:	Discussion of evidences and problems in constriction of various aspects of Harappan civilization. Questions-answers sessions N/A	B.A. Honours I B.A. Honours II	Core Course I, Paper-History of India-I SEC/Paper-Understanding Heritage
	<u>Mid Term Test</u>	Any Two Questions to be attempted 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: a) Advances in the field of archaeology b)Rock art c)Significance of Mehrgarh d)Ecological variations in Chalcolithic cultures <u>Group Projects Deliberations</u> 1. Food Culture of Old Delhi 2)Vocal Traditions in India 3)Vandalism and Graffiti 4)Sufism in Delhi	B.A. Honours I B.A. Honours II	Core Course I, Paper-History of India-I SEC/Paper-Understanding Heritage

NOVEMBER	**Theory:**	UNIT V 1. Aryan Debate 2. Vedic: Rig Vedic and later Vedic; geography, economy, polity , society, religion 3. Megaliths: typology, distribution and features UNIT IV 2. Heritage, Landscape and Travel; recent trends	B.A. Honours I B.A. Honours II	Core Course I, Paper-History of India-I SEC/Paper-Understanding Heritage
	Practicals:	N/A		
	Tutorials:	Discussion of two cultures: Harappan and Vedic. Problems of paucity of archaeological sources, megalithic economy. Questions-answers session Group Projects Submission and presentation of Individual Reports	B.A. Honours I B.A. Honours II	Core Course I, Paper-History of India-I SEC/Paper-Understanding Heritage

SEMESTER WISE TEACHING PLAN (2016-17)
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 (19th 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 11th and 16th 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?		

	Assignment:	2.Causes oof 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		
	Test	TEST WAS CONDUCTED FOR BBOTH 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 (2016-2017)
SRI VENKATESWARA COLLEGE

Name of the Faculty: Rajni Chandiwal **Department:History**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
July	**Theory** **1.**	• I. India in the mid-18th Century: society, economy, polity and culture II. Dynamics of colonial expansion: indigenous states and Company power	B.A. (Hons.) IInd Year	Core - History of India – VI (c.1750-1857)
	2.	• Foundation, expansion and consolidation of the Sultanates of Delhi c.13th to 15th Century: Expansion; iqta system; admin	B.A. (Prog.) IInd Year	Core - History of India, c. 1206-1707
	Practicals	NA	NA	
	Tutorials	Discussion on the theme Discussion on the theme		
August	**Theory:** **1.**	• II. Colonial state and ideology: emergence of the Company State IV. Law and education.		
	2.	• III. Foundation, expansion and consolidation of the Mughal state, c. 16th to 17th century: expansion and consolidation; Rajputs; Mansabdari and Jagirdari; imperial ideology: assessing Aurangzeb VII. Economy and integrated patterns of exchange: rural and urban linkages; commercial practices (usury and banking); maritime trade and non-agrarian production		

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

	Assignment :	18 century Debate.		
September	**Theory: 1** **2**	• V. Economy and Society VI. Cultural changes, social and religious reform movements • II. Regional political formations: Gujarat and Vijayanagara IV. 17th century transitions: Marathas; Sikhs		
	Practicals:	NA		
	Tutorials:	Discussion on the themes taught in the class		
	Test	Taken on the themes taught in the class till Sept.		
October	**Theory: 1** **2**	• II. Popular resistance • . Art and architecture in medieval India: Qutub complex, Vijayanagara (Hampi);Fatepur Sikri; Mughal miniature painting		

	Practicals:	NA		
	Tutorials:	Questions and Answer Sessions with presentations		

November	**Theory:** **1** **2**	• Popular Uprisings • VI. Society, culture and religion : Bhakti – Kabir and Mira Bai; Sufism – Nizamuddin Auliya; Sufism in popular literature from the Deccan: Chakki-Nama and Charkha-Nama		
	Practicals:	NA		
	Tutorials:	Revisons		

SEMESTER WISE
TEACHING PLAN

SRI VENKATESWARA COLLEGE

July-November, 2016-17

Name of the Faculty: Vandana Joshi **Department:History**

Semester: III and 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
		I. Transition from feudalism to capitalism: problems and theories. 1.	BA H Core Course	Rise of Modern West
	Practicals:			
	Tutorials:	The French Revolution	BA HONS	Modern European History
		The idea of Early Modern Europe	BA H Core Course	Rise of Modern West
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. Early colonial expansion motives, voyages and explorations; the conquests of the Americas: beginning of the era of colonization; mining and plantation; the African slaves.	BA H Core Course	Rise of Modern West

	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 18th 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
		III. Renaissance: its social roots, city states of Italy; spread of humanism in Europe; Art.	BA H Core Course	Rise of Modern West
	Practicals:			
	Tutorials:	Presentations and assignments		
		Presentations and assignments		
	Assignment			

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 19th and 20th Centuries: 39 [a] The struggle for parliamentary democracy and civil liberties in Britain: popular movements – chartists and suffragettes	BA HONS	Modern European History
		IV. Origins, course and results of the European Reformation in the 16th century. V. Economic developments of the sixteenth century: Shift of economic balance from the Mediterranean to the Atlantic;	BA H Core Course	Rise of Modern West
	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
		V Commercial Revolution; Influx of American silver and the Price Revolution. VI. Emergence of European state system: Spain; France; England; Russia.	BA H Core Course	Rise of Modern West
	Practicals:			
	Tutorials:	Presentations and assignments		
		Presentations and assignments		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester 2016-17

Name of the Faculty: Dr. BR Gupta **Department: Statistics**

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	pdf and moments of Chi-Square distribution	B.Sc. (H) Sem-III	STAT C-301
		Introduction of Statistical quality control (SQC)	B.A. (Prog) Sem-V	Applied Statistics
	Practicals	Based on chi-square	B.Sc. (H) Sem-III	STAT C-301
		Based on the estimation	B.Sc. (H) Sem-V	STH 501
	Tutorials	NA		
AUGUST	**Theory**	Properties of chi-square distribution	B.Sc. (H) Sem-III	STAT C-301
		Introduction of Maximum Likelihood Estimator and related	B.Sc. (H) Sem-V	STH 501
		Control charts by attributes and variables under SQC introduction of	B.A. (Prog) Sem-V	Applied Statistics
	Practicals	Based on chi-square distribution	B.Sc. (H) Sem-III	STAT C-301
		Based on MLE	B.Sc. (H) Sem-V	STH 501
	Tutorials	NA		
SEPTEMBER	**Theory:**	Applications of chi-square distribution and test of significance based on chi square	B.Sc. (H) Sem-III	STAT C-301
		Maximum Likelihood Estimator and related Unsolved Problems	B.Sc. (H) Sem-V	STH 501
		Methods of construction of IN and testing of Ideal No. introduction of vital statistics	B.A. (Prog) Sem-V	Applied Statistics
	Practicals:	Based on applications chi-square distribution	B.Sc. (H) Sem-III	STAT C-301
		Based on MLE, MOM and confidence intervals	B.Sc. (H) Sem-V	STH 501
	Tutorials:	Problems of IN	B.A. (Prog) Sem-V	Applied Statistics

OCTOBER	**Assignment:**	On the solution of the exercise on chi-square distribution	B.Sc. (H) Sem-III	STAT C-301
		On point estimation and unbiasedness, On sufficiency and Rao Blackwell Theorem	B.Sc. (H) Sem-V	STH 501
		On SQC and index Numbers.	B.A. (Prog) Sem-V	Applied Statistics
	Theory:	Introduction of t-distribution, derivation of pdf and constants of t-distribution	B.Sc. (H) Sem-III	STAT C-301
		Interval estimation, difference between point and interval estimation and how to get confidence interval	B.Sc. (H) Sem-V	STH 501
		Mortality rate and contribution of life table	B.A. (Prog) Sem-V	Applied Statistics
	Practicals:	Based on t-distribution	B.Sc. (H) Sem-III	STAT C-301
		On confidence interval and minimum Chi-Square	B.Sc. (H) Sem-V	STH 501
	Tutorials:	Problems on construction of life table	B.A. (Prog) Sem-V	Applied Statistics
	Test	90% of the course		
NOVEMBER	**Theory:**	Introduction of F-distribution, derivation of its constants, problems based on t and F-distribution	B.Sc. (H) Sem-III	STAT C-301
		Methods of constructions of confidence intervals, large sample confidence intervals	B.Sc. (H) Sem-V	STH 501
		Fertility rates and revision	B.A. (Prog) Sem-V	Applied Statistics
	Practicals:	Based on F-distribution	B.Sc. (H) Sem-III	STAT C-301
		Based on confidence intervals	B.Sc. (H) Sem-V	STH 501
	Tutorials:	Articles on fertility	B.A. (Prog) Sem-V	Applied Statistics

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester 2016-17

Name of the Faculty: Dr. Archna Bansal **Department: Statistics**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
July	**Theory**	Concept of population and sample, complete enumeration versus sampling, sampling and non-sampling errors. Types of sampling: non-probability and probability sampling, basic principle of sample survey, Simple random sampling with and without replacement, 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.	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Practicals	To select 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.	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Tutorials			
August	**Theory**	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, estimation of gain in precision, post stratification and its performance, Collapsed strata, Systematic Sampling: Technique, estimates of population mean and total, k).×variances of these estimates (N = n*k)	. B.Sc.(H) Statistics	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, Estimation of gain in precision in stratified sampling.	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Tutorials			
September	**Theory**	Comparison of systematic sampling with SRS and stratified sampling in the presence of linear trend and corrections. Circular systematic sampling (only definition), Introduction to ratio and regression methods of estimation, first approximation to the population mean and total (for SRS of large size), variances of these estimates and estimates of these variances, variances in terms of correlation coefficient for	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics

		regression method of estimation and their comparison with SRS.		
	Practicals	Comparison of systematic sampling with stratified sampling and SRS in the presence of a linear trend and using end's correction, 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.	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Tutorials			
	Assignment	Assignments will be based on units I & II	B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Test	Course covered up to mid-term break.	. B.Sc.(H) Statistics	STAT-C-302: Survey Sampling and Indian Official Statistics
	Tutorials			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester 2016-17

Name of the Faculty: Mrs. Raj Kumari **Department: Statistics**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction (meaning and scope0 , freq. dist. , graphical interpretation	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Operators , interrelation between them, factorialnotaion	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Practicals	Based on graphical representation	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Based on factorial notations and operators	B.Sc.(H) 3rd sem	STAT-C-303/
	Tutorials			
AUGUST	**Theory:**	Measures of central tendency, Dispersion skewness, Kurtosis	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Properties of delta and E, Newton Gregory Forward and backward formula	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Practicals:	Based on averages, dispersion and skewness Kurtosis	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Problems on NFDF and NBDF	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Tutorials:			
SEPTEMBER	**Theory:**	Bivariate data, Scatter Diagram, Simple, Partial and Mulktiple Correlation(For 3 variate only), Simple linear regression, Principle of least squares and fitting of curves, theory of attributes	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Divided DifferenceNDDF, NFDF, Lagranges interpolation formula, divided difference, central difference interpolation formula	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Practicals:	Based on above topics	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics

		Based on interpolation formula	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Tutorials:			
	Assignment :	Based on above topics	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Based on above topics	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
OCTOBER	**Theory:**	Probability: various definitions conditional probability	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Solutions of first order difference equations	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Practicals:	Based on above topics	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
			B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Tutorials:		B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
	Test	Internal Tests will be held From 19 oct to 24 oct	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
NOVEMBER	**Theory:**	Bayes theorem and applications	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
		Mean value theorems	B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Practicals:	Based on above topics	B.Sc.(H) 1st sem	STAT-C-!01/ Descriptive Statistics
			B.Sc.(H) 3rd sem	STAT-C-303/ Mathematical Analysis
	Tutorials:			

SEMESTER WISE TEACHING PLAN

SRI VENKATESWARA COLLEGE

Odd Semester -2016-17

Name of the Faculty: Dr. MVR Prasada Rao **Department: Statistics**

Semester: I, III, V

Month		Topics	Course	Paper Code/ Name
JULY	**Theory**	Introduction of the paper and its importance in the society	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		What is Statistical Inference	Generic Elective	STAT GE-3, Basics of Statistical
	Practicals	Based on the estimation and practicals based on estimation	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
	Tutorials			
AUGUST	**Theory**	Properties of good estimator consistency, unbiasedness, efficiency, theorems and related questions	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		Basics of inference, unbiasedness, efficiency and examples of estimation of mean and introduction to confidence intervals	Generic Elective	STAT GE-3, Basics of Statistical
	Practicals	Based on estimation, graphical presentations, unbiasedness and invariance properties	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		Based on estimation of parameters of Normal Distribution and confidence intervals of difference of means and parameters	Generic Elective	STAT GE-3, Basics of Statistical
	Tutorials			
SEPTEMBER	**Theory:**	Sufficiency, Cramer Rao Inequality, Rao Blackwell Theorem and its applications	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		Testing of hypothesis, p-value, errors, applications, one sided , and two sided hypothesis	Generic Elective	STAT GE-3, Basics of Statistical
	Practicals:	Based on MLE, MOM and confidence intervals	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1

		Based on hypothesis testing	Generic Elective	STAT GE-3, Basics of Statistical
	Tutorials:			
	<u>Assignment</u>	1. On point estimation and unbiasedness 2. On sufficiency and Rao Blackwell Theorem	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		1. On estimation 2. On tests of hypothesis	Generic Elective	STAT GE-3, Basics of Statistical
OCTOBER	**Theory:**	Interval estimation, difference between point and interval estimation and how to get confidence interval	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		Non parametric tests, sign test and rank correlation test	Generic Elective	STAT GE-3, Basics of Statistical
		On confidence interval and minimum Chi-Square	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		On nonparametric tests	Generic Elective	STAT GE-3, Basics of Statistical
	Tutorials:			
	<u>Test</u>	90% of the course		
NOVEMBER	**Theory:**	Methods of constructions of confidence intervals, large sample confidence intervals	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		test of association and goodness-of-fit using chi-square test and Yate's correction	Generic Elective	STAT GE-3, Basics of Statistical
		Based on confidence intervals	B.Sc. (H) Sem-V	STH 501, Statistical Inference-1
		Based on chi-square test	Generic Elective	STAT GE-3, Basics of Statistical
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester 2016-2017

Name of Faculty: Dr. Veena Budhraja **Department: Statistics**
Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to real numbers and their properties. Supremum and Infmum.	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		Probability generating functions and introduction to Stochastic Processes.	B.Sc.(H) Statistics	STH 504: Stochastic Processes
	Practicals	Based on statistical Inference.	B.Sc.(H) Statistics	Practical-V:, Part - B
	Tutorials			
AUGUST	**Theory:**	Neighbourhoods and limit points. Sequences.	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		Markov Chains	B.Sc.(H) Statistics	STH 504: Stochastic Processes
	Practicals:	Based on frequency distributions.	B.Sc.(H) Statistics	Practical-V:, Part - B
	Tutorials:			
SEPTEMBER	**Theory:**	Series. Limits and Continuity,	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		Poisson Processes	B.Sc.(H) Statistics	STH 504: Stochastic Processes

	Practicals:	Based on Testing of Hypothesis	B.Sc.(H) Statistics	Practical-V:, Part - B
	Tutorials:			
	<u>Assignment :</u>	Based on series and continuity.	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		Stochastic Processses and Poisson Processes.	B.Sc.(H) Statistics	STH 504: Stochastic Processes
OCTOBER	**Theory:**	Derivability and Mean Value Theorems.	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		The Classical Ruin Problem.	B.Sc.(H) Statistics	STH 504: Stochastic Processes
	Practicals:	Based on Linear Models	B.Sc.(H) Statistics	Practical-V:, Part - B
	Tutorials:			
	<u>Test</u>	Based on Supremeum, Infimum, Series and Mean Value Theorems	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
NOVEMBER	**Theory:**	Power Series expansion of some standard functions.	B.Sc.(H) Statistics	STAT-C-303/ Mathematical Analysis
		Renewal Theory	B.Sc.(H) Statistics	STH 504: Stochastic Processes
	Practicals:	Based on Control Charts and Time Series.	B.Sc.(H) Statistics	Practical-V:, Part - B
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2016-17

Name of the Faculty: Dr. M.K. Sukla **Department: Statistics**
Semester: I/III/V

Month		Topics	Course	Paper
JULY	**Theory**	Introduction to Regression analysis and simple linear regression What is time series	B.Sc.(H) V semester B.A. Prog. Sem V	STH-503/LINEAR MODEL Paper V/Applied Statistics
	Practicals	Based on simple linear regression	B.Sc.(H) V semester	STH-503/LINEAR MODEL
	Tutorials			
AUGUST	**Theory:**	Simple linear regression by matrix approach and properties of least square estimator and its confidence Intervals	B.Sc.(H) V semester B.A. Prog. Sem V	STH-503/LINEAR MODEL Paper V/Applied Statistics
	Practicals:	Based on simple linear regression by matrix approach	B.Sc.(H) V semester	STH-503/LINEAR MODEL
	Tutorials:			
SEPTEMBER	**Theory:**	Estimability, general linear model, guass markov theorem and multiple linear regression model	B.Sc.(H) V semester	STH-503/LINEAR MODEL
		Additive and multiplicative models	B.A. Prog. Sem V	Paper V/Applied Statistics
	Practicals:	Based on GLM and estimability and problems related to lack of fit and pure error, anova	B.Sc.(H) V semester	STH-503/LINEAR MODEL
	Tutorials:			
	Assignment	On Simple linear regression model and its anova and problems based on estimability	B.Sc.(H) V semester	STH-503/LINEAR MODEL
October	**Theory:**	Stepwise procedures Partial F test, Sequential F test	B.Sc.(H) V semester	STH-503/LINEAR MODEL
		Applications of time series	B.A. Prog. Sem V	Paper V/Applied Statistics
	Practicals:	Based on Above topics	B.Sc.(H) V semester	STH-503/LINEAR MODEL

	Tutorials:			
	<u>Test</u>	Based on Unsolved problems	B.Sc.(H) V semester	STH-503/LINEAR MODEL
			B.A. Prog. Sem V	Paper V/Applied Statistics
NOVEMBER	**Theory:**	Polynomial models, orthogonal polyynomials	B.Sc.(H) V semester	STH-503/LINEAR MODEL
		Application of time series	B.A. Prog. Sem V	Paper V/Applied Statistics
	Practicals:	Based on above topics	B.Sc.(H) V semester	STH-503/LINEAR MODEL
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2016-17

Name of the Faculty: Mr. AKASH **Department: STATISTICS**

Semester: I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Statistics in psychology and education, difficulty value of an item	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Practicals	Based on Difficulty Value of an Item	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Tutorials			
AUGUST	**Theory:**	Scaling of scores on a test , Z-score, standard score, normalized score, T-score, measurement of mortality, CDR, SDR,IMR, STDR	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Practicals:	Z-score , Normalised score, T-score, Rankings Ratings, percentile score, CDR, SDR, IMR,STDR	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Assignment1	Complete Note on INTELLIGENCE QUOTIENT	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
SEPTEMBER	**Theory:**	Reliability of Test scores , Validity of test scores, Life Table Construction of Life Table, Abridged Life	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III

		Central mortality rate , force of mortality, Fertility, CBR, GFR, SFR,		
	Practicals:	Based on Life table , Reliability, Validity, Fertility, CBR,GFR, TFR, GRR, NRR	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Tutorials:			
	Assignment2 :	OnFertility, CBR,GFR, TFR, GRR, NRR	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
OCTOBER	**Theory:**	Graduation of Mortality Rates, Makeham's Graduation formulae, Fitting of Makeham's	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Practicals:	Fitting og Makeham's Graduation formulae,, method of four selected points, method of Partial	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Tutorials:			
	Test	Full Topic " Statistics in Psychology and Education"	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
NOVEMBER	**Theory:**	Population Projection , Logistic Curve, Fitting of Logistic Curve, PEARL AND Reed Method, Rhodes Method, IQ,	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Practicals:	Practicals based onFitting of Logistic Curve, PEARL AND Reed Method, Rhodes Method	B.Sc.(H) Statistics Sem-V	STH-502, APPLIED STATISTICS-III
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2016-17

Name of the Faculty: Dr. Joginder **Department: Statistics**

Semester: I, III, V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Order Statistics	B.Sc. (H) Sem-III	STAT C-301
	Practicals	NA		
	Tutorials	NA		
August	**Theory**	Differential Equations and their Solutions	B.Sc. (H) Sem-I	STAT C-102
		Continuation of Order Statistics and related Problems	B.Sc. (H) Sem-III	STAT C-301
		Introduction of Maximum Likelihood Estimator and related Solved Problems	B.Sc. (H) Sem-V	STH 501
	Practicals	Based on MLE		
	Tutorials	NA		
SEPTEMBER	**Theory:**	Differential Equations and their Solutions And Integral Calculus	B.Sc. (H) Sem-I	STAT C-102
		Introduction of Large Sample Theory and related problems	B.Sc. (H) Sem-III	STAT C-301
		Maximum Likelihood Estimator and related Unsolved Problems	B.Sc. (H) Sem-V	STH 501
	Practicals:	Based on Large Sample Theory	B.Sc. (H) Sem-I	STAT C-102
		Based on Large Sample Theory	B.Sc. (H) Sem-III	STAT C-301
		Based on MLE	B.Sc. (H) Sem-V	STH 501
	Tutorials:	NA		

	Assignment :	Based on Differential Equations		
OCTOBER	**Theory:**	Integral Calculus and Partial differential equations	B.Sc. (H) Sem-I	STAT C-102
		Continuation of Large Sample Theory and related Problems,	B.Sc. (H) Sem-III	STAT C-301
		Method of Moments	B.Sc. (H) Sem-V	STH 501
	Practicals:	Based on Method of Moments		
		Based on Large Sample Theory	B.Sc. (H) Sem-III	STAT C-301
	Tutorials:	NA		
	Assignment :	Based on Integral Calculus	B.Sc. (H) Sem-I	STAT C-102
		Based on Order Statistics	B.Sc. (H) Sem-III	STAT C-301
		Based on MLE Unsolved Problems	B.Sc. (H) Sem-V	STH 501
NOVEMBER	**Theory:**	Continuation of Partial differential equations	B.Sc. (H) Sem-I	STAT C-102
		Central limit theorem, law of large numbers	B.Sc. (H) Sem-III	STAT C-301
		Minimum chi-square	B.Sc. (H) Sem-V	STH 501
	Practicals:	Based on Minimum chi-square	B.Sc. (H) Sem-V	STH 501
	Tutorials:	NA		
	Assignment:	Based on Partial Differential Equations	B.Sc. (H) Sem-I	STAT C-102
		Based on Central limit theorem, law of large numbers	B.Sc. (H) Sem-III	STAT C-301

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2016-17

Name of the Faculty: Mr. Ashutosh Awasthi **Department: Statistics**
Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Measures of Central Tendency	GE-1	STAT-GE-1/ GE-1 (Statistical Methods)
	Practicals	None	None	None
	Tutorials	None	None	None
AUGUST	**Theory:**	Measures of Dispersion, Moments, Skewness, Kurtosis Branching Process Successive Differentiation Test of proportions Stem leaf, Boxplot	GE-1 B.Sc.(H) Sem V B.Sc. (H) Sem I GE-III B.Sc.(H) SemIII	STAT-GE-1/ Statistical Methods STH-504/ Stochastic Process STAT-C-102/ Calculus STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R
	Practicals:	Measures of central tendency, Measures of dispersion Test of Means for large and small samples Boxplot, Stemleaf, Histogram Estimation (M.L.E., Moments)	GE-1 GE-III B.Sc.(H) (SemIII) B.Sc.(H)(SemV)	STAT-GE-1/ Statistical Methods STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R STH-501/ Statistical inference
	Tutorials:	None	None	None
SEPTEMBER	**Theory:**	Regression, Correlation, Partial and Multiple Correlation Queuing Theory Partial Diferentiation Test of proportions for k popus. Generation of random samples	GE-1 B.Sc.(H) Sem V B.Sc. (H) Sem I GE-III B.Sc.(H) SemIII	STAT-GE-1/ Statistical Methods STH-504/ Stochastic Process STAT-C-102/ Calculus STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R

	Practicals:	Rank Correlation, Bivariate frequencies, Regression Test of proportions, Random number generation Hypothesis Testing	GE-1 () GE-III () B.Sc.(H) (SemIII) B.Sc.(H)(SemV)	STAT-GE-1/ Statistical Methods STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R STH-501/ Statistical inference
	Tutorials:	None	None	None
	Assignment :	A project on "Use of statistics in your own stream" Assignment on successive differentiation and Partial Diff.	GE-1 (Statistical Methods) Calculus	STAT-GE-1
OCTOBER	**Theory:**	Theory of attributes Queuing theory Maxima and minima Goodness of fit test Unit III	GE-1 B.Sc.(H) Sem V B.Sc. (H) Sem I GE-III B.Sc.(H) SemIII	STAT-GE-1/ Statistical Methods STH-504/ Stochastic Process STAT-C-102/ Calculus STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R
	Practicals:	Based on above topics	GE-1 () GE-III () B.Sc.(H) (SemIII) B.Sc.(H)(SemV)	STAT-GE-1/ Statistical Methods STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R STH-501/ Statistical inference
	Tutorials:		None	None
	Test	Internal Tests will be held From 19 oct to 24 oct		

NOVEMBER	**Theory:**	Scales of Measurement Queuing theory Jacobians Independence of attributes UNIT IV	GE-1 B.Sc.(H) Sem V B.Sc. (H) Sem I GE-III B.Sc.(H) SemIII	STAT-GE-1/ Statistical Methods STH-504/ Stochastic Process STAT-C-102/ Calculus STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R
	Practicals:	Based on above topics	GE-1 () GE-III () B.Sc.(H) (SemIII) B.Sc.(H)(SemV)	STAT-GE-1/ Statistical Methods STAT-GE-3/ Basics of Statistical Inference SEE/ Statistical Analysis using R STH-501/ Statistical inference
	Tutorials:		None	None

EMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE
Odd Semester -2016-17

Name of the Faculty: Dr. Himanshu Chowdhery **Department: Statistics**

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**			
	Practicals			
	Tutorials			
AUGUST	**Theory:**			
	Practicals:			
	Tutorials:			
SEPTEMBER	**Theory:**	Simple random sampling, Stratified random sampling, Ratio and regression method	B.Sc. (H) 3rd sem	STAT-C-302/Survey Sampling and indian official statistics
		ANOVA 1 way classification	GE-3 Third semester	STAT-GE-3/ Basics of statistical inference
	Practicals:			
	Tutorials:			
	Assignment :			
OCTOBER	**Theory:**	Cluster sampling, Sub sampling	B.Sc. (H) 3rd sem	STAT-C-302/Survey Sampling and indian official statistics
		CRD, RBD	GE-3 Third semester	STAT-GE-3/ Basics of statistical inference
	Practicals:			
	Tutorials:			
	Test			
NOVEMBER	**Theory:**	Official Statistical systems	B.Sc. (H) 3rd sem	STAT-C-302/Survey Sampling and indian official statistics
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: **Dr A N Anwer**

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Preliminaries Preliminaries Preliminaries Preliminaries	BA English BA Hons English BA Hons English	C-7/Brit Poe & Dr c.17-18 16/ Eng Lit 3 (ii) 17/Eng Lit 5 (i) 19 B/ Lit Theory-1
	Practicals			
	Tutorials			
AUGUST	**Theory:**	Jacobean background Romancticism background Modernism background Marxism background Colonisation/Decoln Preliminaries	BA English BA Hons English BA Hons English BA Hons English BA-Prg III BA Math	C-7/Brit Poe & Dr c.17-18 16/ Eng Lit 3 (ii) 17/Eng Lit 5 (i) 19 B/ Lit Theory-1 Eng-D AECC-2/Communication
	Practicals:			
	Tutorials:	(Group toggling) Wordsworth Keats 1 Blake-1	BA Hons English III	16/ Eng Lit 3 (ii)
SEPTEMBER	**Theory:**	Duchess of Malfi: Text 1 Wordsworth Eliot Lukacs	BA English BA Hons English BA Hons English BA Hons English	C-7/Brit Poe & Dr c.17-18 16/ Eng Lit 3 (ii) 17/Eng Lit 5 (i) 19 B/ Lit Theory-1

		Ngugi Theory of Communcation 1		Eng-D AECC-2/Communication
	Practicals:			
	Tutorials:	Coleridge 1 Blake 2 Mary Shelley-1 (Group toggling)	BA Hons English III	16/ Eng Lit 3 (ii)
	Assignment :	(included in tutorial toggling group wise: see above)		
OCTOBER	**Theory:**	Duchess of Malfi: Text 2-3 Coleridge Eliot + Yeats-1 Lukacs + Brecht Marquez / Comm Theory 2	BA English BA Hons English BA Hons English BA Hons English BA-P / BA Math-B	C-7/Brit Poe & Dr c.17-18 16/ Eng Lit 3 (ii) 17/Eng Lit 5 (i) 19 B/ Lit Theory-1 Eng-D / AECC
	Practicals:			
	Tutorials:	P B Shelley Keats 2 Mary Shelley-2 Coleridge 2 (Group toggling)		16/ Eng Lit 3 (ii)
NOVEMBER	**Theory:**	Duchess of Malfi: Text 4-5 Blake Yeats-2 Gramsci / Althuser Marquez (concl) Comm Theory-3	BA English BA Hons English BA Hons English BA Hons English BA-P / BA Math-B	C-7/Brit Poe & Dr c.17-18 16/ Eng Lit 3 (ii) 17/Eng Lit 5 (i) 19 B/ Lit Theory-1 Eng-D / AECC
	Practicals:			
	Test: (Nov start)	All portions covered to date	BA Hons English III	16/ Eng Lit 3 (ii)

SEMESTER WISE
TEACHING PLAN

SRI
VENKATE
SWARA
COLLEGE

Name of the Faculty: **DR MEENAKSHI BHARAT**

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Sem V: Background: Postcolonialism, Postcolonial Literature Sem V: Feminism and Women's Writing Contextualized Sem I: AECC Introduction to Dalit Sensibility and Writing		
	Practicals			
	Tutorials			
AUGUST	**Theory:**	V: African Literature, Colonization of Africa, 'Nigerian' Nationalism and Struggle against colonization, Chinua Achebe Life and writing. Intro to text Sem V: Short Stories: Chopin and Mansfield: Issues of form and approach Sem 1: Dalit Poetry	Contemporary Literature Women's Writing AECC	
	Practicals:			
	Tutorials:	SEM V: Women's Writing Training on writing Ref to Context: Assignment 1 announced	Women's Writing	
SEPTEMBER	**Theory:**	Things Fall Apart-Text Analysis and understanding of important Issues	Contemporary Literature	

		Mahasweta Devi Sem I: Dalit Autobiography ; Issues and Importance	AECC	
	Practicals:			
	Tutorials:	Corrections and Feedback on assignments	Women's Writing	
	Assignment :	On Feminist Short Fiction Ref to Context.	Women's Writing	
OCTOBER	**Theory:**			
	Practicals:			
	Tutorials:	Topic for test announced		
	Test			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN

SRI VENKATE SWARA COLLEGE

Name of the Faculty: Ratna Raman

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Ancient Indian History American History Women's movements History of feminism	BA Honours I year English BA Honours II year BA honours III yr	Indian Classical literature American literature Literary Theory
		Pointers on English Communication Pointers on Academic writing In English	BA Honours I year English BA Hons (combined class) IIyr	AEEC GE
	Tutorials	Met students , organized them into groups and explained purpose of tutorials	BA Honours I year BA honours (combined)IIyr	Indian Classical Literature AEEC GE
AUGUST	**Theory:**	Started a close reading of the Sabha parva 17th century American history and Bradstreet Mary Wollstonecraft and her contemporaries	BA Honours I Year (English) BA Honours IIyear BA Hons IIIyr English	Indian Classical literature American literature Literary Theory
		Women writers in the 19th century Idea of India Technical details of Academic writing	Ba Hons IIIyr English BA Hons Eng I yr BA hons IIyr	Women's writing in the 19th century AEEC GE
	Tutorials:	Suggested reading lists and secondary readings for both groups to be tutored SET OUT ASSIGNMENTS	FOR EACH STUDENT TO	Students began discussions on a range of subjects SUBMIT IN SEPTEMBER
SEPTEMBER	**Theory:**	Continued with the sabhaparva 18th and 19th century American history and Walt Whitman	BA Hons I year Eng.	Same as july and August

		Whitman Elaine Showalter's Essay Juliet Mitchel's Essay	BA Hons IIyear English BA hons IIIyr	Same as July and August
		Virginia Woolf's book A Room of One's Own	Ba Hons IIIyear	
	Tutorials:	Have received hand writtentutorials from both groups of students.		
	Assignment :	GE studentstried to write academic essays ona range of subjects and interests	English Hons students worked in areas specific to genres in Classical literature	Conducted a class test for AEEC
OCTOBER	**Theory:**	Conclude Sabhaparva and begin Udyog parva Conclude with Walt whitman		
		Michelle Barrett Simone De Beauvoir Gilbert and Gubar Academic Writing Partition Literature		
	Tutorials:	Continuing with discussions of Other sections of the indian Classical literature paper		
	Test	Will be scheduling tests for I year English honours and AEEC after the break		
NOVEMBER	**Theory:**	Will wind up teaching For all classes Udyog parva Sherman Alexie, Luce Irigaray		
		Coca Gagnay Cora Caplan		Theory Women's Writing
	Tutorials:	Internal assessment will be duly prepared for assessed students and submitted		

SEMESTER WISE
TEACHING PLAN

SRI
VENKATE
SWARA
COLLEGE

Name of the Faculty: Debarati Sen

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	Introduction to Sanskrit *Kavya* and *Natyashastra.*	B.A.(H) English I yr.	Indian Classical Literature
		Introduction to Emily Dickinson.	B.A.(H) English III yr.	B.A. (H) English IIIyr- Women's Writing in the 19th & 20th Centuries (i)
		Introduction to the context for Background Readings.	B.A.(H) English III yr.	B.A. (H) English IIIyr- English Literature 5 (i)
		Introduction to the idea of Communication	B.Com(P) I English	Business Communication
		Essentials of Communication	B.Sc (H) Bio. Science	AECC
		Essentials of Communication	B.A.(H) Sociology	AECC
		Poems in the 'war and Violence' Unit.	B.A. (P) I English Discipline	
	Practicals			
	Tutorials			
AUGUST	**Theory:**	Introduction to Sanskrit *Kavya* and *Natyashastra.*	B.A.(H) English I yr.	Indian Classical Literature
		Introduction to Emily Dickinson.	B.A.(H) English III yr.	B.A. (H) English IIIyr- Women's Writing in the 19th & 20th Centuries (i)
		Introduction to the context for Background Readings.	B.A.(H) English III yr.	B.A. (H) English IIIyr- English Literature 5 (i)
		Introduction to the idea of Communication	B.Com(P) I English	Business Communication
		Essentials of Communication	B.Sc (H) Bio. Science	AECC
		Essentials of Communication	B.A.(H) Sociology	AECC
		Poems in the 'war and Violence' Unit.	B.A. (P) I English Discipline	
		Essentials of Communication	B.Sc (H) Maths B AECC	AECC
	Practicals:			

	Tutorials:			
SEPTEMBER	**Theory:**	**ON MATERNITY LEAVE**		

SEMESTER WISE TEACHING PLAN

SRI VENKATE SWARA COLLEGE

Name of the Faculty: Rakesh Kumar

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

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	1. Introduction to classical literature. 2. Introduction to communication	BA (H) English 1st year B Sc (H) Math 1st year B Sc (H) Chemistry 1st year B Sc (H) Life Science 1stYear B Sc (H) Bot + Zoo. 1st year	Indian Classical Literature Ability Enhancement compulsory course
	Practicals	NA	NA	NA
	Tutorials			
AUGUST	**Theory:**	1Introduction to Cilappatikaram 2 Different types of communication; oral, written and gestures.	BA(H) English 1st year. B Sc (H) Math 1st year B Sc (H) Chemistry 1st year B Sc (H) Life Science 1stYear B Sc (H) Bot + Zoo. 1st year	Indian Classical literature Ability Enhancement Compulsory course
	Practicals:	NA	NA	NA
	Tutorials:	1 Understanding Literary Theory	BA (H) IIIrd year.	Literary Theory
SEPTEMBER	**Theory:**	1 Kalidasa : Abhijnanasakuntalam	BA (H) English 1st year. B Sc (H) Math 1st year B Sc (H) Chemistry 1st year B Sc (H) Bot+Zooc 1st year	Indian Classical literature Ability Enhancement compulsory Course

	Practicals:	NA	NA	NA
	Tutorials:	Presentations from students.	BA (H) English IIIrd year.	Literary Theory.
	Assignment :			
OCTOBER	**Theory:**			
	Practicals:			
	Tutorials:			
	Test			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			

SEMESTER WISE
TEACHING PLAN

SRI
VENKATE
SWARA
COLLEGE

Name of the Faculty: Lallianpuii Ralte

Department: English **Semester : I**

Month		Topics	Course	Paper Code/Name
JULY	**Theory**	1.The Epic Genre 2. Introduction to Communication Skills 3. Letter writing skills	1. BA (H) English – I 2. BA (H) History – 1 B. Sc (H) Maths Sec A B.SC (H) Bio Science – I 3. B. Com (P) - I	1. European Classical Literature 2. Ability Enhancement Compulsory Course 3. Advanced English - A
	Practicals	NA	NA	NA
	Tutorials	NA	NA	NA
AUGUST	**Theory:**	1.Homer's *The Iliad* 2.Translation – Theory and Practice 3. Business Letters	1.BA (H) English – I 2. BA (H) History – 1 B. Sc (H) Maths Sec A B.SC (H) Bio Science – I 3. B. Com (P) - I	1. European Classical Literature 2. Ability Enhancement Compulsory Course 3. Advanced English - A
	Practicals:	NA	NA	NA
	Tutorials:	Business Letters	B. Com (P) - I	
SEPTEMBER	**Theory:**	1.Homer's *The Iliad* 2.Reading and Writing Skills 3. Business Letters	1.BA (H) English – I 2. BA (H) History – 1 B. Sc (H) Maths Sec A B.SC (H) Bio Science – I 3. B. Com (P) - I	1. European Classical Literature 2. Ability Enhancement Compulsory Course 3. Advanced English - A

		3. Interoffice Memorandum	3. B. Com (P) - I	3. Advanced English - A
	Practicals:	NA	NA	NA
	Tutorials:	3. Interoffice Memorandum	3. B. Com (P) - I	3. Advanced English - A
	Assignment :			
OCTOBER	**Theory:**			
	Practicals:			
	Tutorials:			
	Test			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Radhika Prasad **Department:** English

Semester : I/III/V

Month		Topics	Course	Paper Code/Name
JULY	**Theory**			
	Practicals			
	Tutorials			
AUGUST	**Theory:**	– Toni Morrison's Beloved – Edward Said: Orientalism – Note Making, etc.	– Eng. (H) II – Eng. (H) IV – Pol Sc. (H) I – B.Sc. L.S. (H) I – History (H) I – Socio (H) I	– American Literature – Literary Theory – AECC
	~~Practicals:~~			
	Tutorials:	– Morrison Background reading	– Eng (H) II	– American Literature
SEPTEMBER	**Theory:**	– Morrison's Beloved – Edward Said's Orientalism	– Eng (H) IV – Eng. (H) IV	– American Literature – Literary Theory

	Practicals:			
	Tutorials:	– Background readings on American Literature	– Eng. (H) II	– American Literature
	Assignment :	– Beloved	"	"
OCTOBER	**Theory:**	– Edgar Allan Poe – Fitzgerald – Spivak – Aijaz Ahmad	– Eng. (H) II – Eng. (H) III	– American Literature – Literary Theory
	Practicals:			
	Tutorials:	– Readings on American literary history	– Eng. (H) II	– American Literature
	Test	– American poetry	"	"
NOVEMBER	**Theory:**	– ~~Faulkner~~ – Faulkner – Gauri Vishwanathan	– Eng. (H) II – Eng. (H) III	– American Literature – Literary Theory
	Practicals:			
	Tutorials:	– Clearing doubts/exam questions.	– Eng. (H) II	– American Literature.

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Ritika Singh **Department: English**

Semester : I/III/V

16th August – 03rd October'16

Month		Topics	Course	Paper
JULY	**Theory**	-	-	-
	Practicals	-	-	-
	Tutorials	-	-	-

AUGUST SEPTEMBER	**Theory:**	1. Elizabeth Barett Browning *Aurora Leigh.* Book V lines 1-447: a. Literary and Biographical Context b. Political Influences and England in the early 19th Century. c. *Aurora Leigh* as a novel-poem: Genre as a protest against gendered restrictions of a male poetic tradition; female Kunstlerroman. d. Book I-IX: Thematic concerns – Female/male Education; the 'Domestic'; the status of the woman writer; female vocation; freedom and self-determination; marriage and equality. e. Book V: Plot; Artistic and Domestic Fulfilment; Aesthetic Ideals of a Woman Poet. f. Discussion of the Reading List 2. Emily Dickinson: a. Biographical introduction to Dickinson b. Dickinson Dashes; Stylistic features; Mother Goose Rhymes, Hymns and the Rhythm of Dickinson c. The split self and the Woman poet; Use of Paradox and Irony d. Literal and Thematic discussion of individual poems in the syllabus. e. Discussion of the Reading List.	B.A English Honours Sem: V	Paper 19: Option C: Women's Writing of the Nineteenth and Twentieth Centuries (i)
	Practicals:	-		
	Tutorials:	-		
AUGUST SEPTEMBER	**Theory:**	-	M.A Previous	Paper 0101: English Poetry from Chaucer to Mliion

Practicals:	-		
Tutorials:	1. Chaucer: a. *Canterbury Tales* as an Estate Satire *b.* Chaucer's many voices: Polyphony, *The General Prologue* and *The Canterbury Tales* c. Miller's Tale: Plot, narration, structure; the Fabliau d. The Pardoner's Tale: Mirth and Moral; Use of Allegory; the relationship between the Teller and the Tale. e. Nun's Priest Tale: Tale as a Beast Fable; Blending of Epic, Tragedy and Romance. f. Discussion of the Reading List Spenser: April Eclogue a. Politics of Praise in *The Shepheardes Calender* b. The Pastoral Panegyric, Political Mythopoesis and the Virgin Queen	M.A Previous	Paper 0101: English Poetry from Chaucer to Mliion
<u>Assignment:</u>	1. Discuss the relationship between the teller and the tale in *The Canterbury Tales*. Or Chaucer belongs to his age and transcends it. Discuss		

AUGUST SEPTEMBER	**Theory:**	1. Freud: 'Theory of Dreams', 'Oedipus Complex' and 'The Structure of the Unconscious' a) Dreamwork; Repression and Expression; Free Association; Dreams reveal and/or conceal; Metaphorical Language of Dreams b) Id, Ego, Superego: Topography of the mind c) Freudian Mental Apparatus: Conscious, Preconscious, Unconscious d) Limits of Freudian Dream Interpretation: Birth of Trauma theory; When the Latent and Manifest Combine e) Impact of Freud on Literature and Art:	B.A English Honours Sem: V	Paper 17. English Literature 5 (i)
		Dadaism and Surrealism; Stream of Consciousness. f. Oedipus Complex, Castration Complex; Penis Envy; g. Feminist Rereading of Freud's Oedipus Complex - From Klein to Kristeva. 2. T.S Eliot: Tradition and Individual Talent a. 'Tradition and the Canon; b. Historical Sense; Art as Extinction of Personality c. Impersonality and Emotion; Poetic Mind as a Medium/ Catalyst d. Discussion of the Reading List 3. Camus: Absurdity and Suicide; The Myth of Sisyphus a. The Absurd: Definitions b. Suicide and Mental Illness c. Existential Interpretation of the Myth of Sisyphus d. Happiness and Absurdity – Sisyphus as the Modern Absurd Hero; Absurd Victory and Fate e. The Transcendental f. Camus, Kierkegaard, Simone de Beauvoir, Sartre, Dostoevsky and Existentialism		

	Practicals:	-		
	Tutorials:	Discussion of Freud's introduction to the *Interpretation of Dreams* Writing Practice: 'Dreams are not omens, neither are they rooted in the supernatural.' Discuss.		
	Test	30th September'16: Dreams are a royal road to a knowledge of the unconscious mind. Discuss. OR A son must release his libidinal desire from his mother and reconcile himself with his father to become a member of the social community. Discuss.		
AUGUST SEPTEMBER	**Theory:**	Sudraka: *Mrcchakatika*: a. Origin and Decline of Sanskrit Drama b. Natyashastra and Theory of Drama; *Dasrupaka*: Types of Drama; *Mrcchakatika* as Prakarna c. Itihaas and Instruction d. The *Kamasutra* and *Mrcchakatika*: Sringara and Rati; e. Vaishya, Vadhu: Women in *Mrcchakatika*	B.A English Honours Sem: I	
	Practicals:	-		
	Tutorials:	-		

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: Dr. Reem Shamsudeen **Department:** English

Semester : I / III / V

Month		Topics	Course	Paper Code/Name
July	**Theory**	1. Pot of gold - Plautus 2. Detective Fiction 3. Late Romantic Poets	1. BA(H) Eng I 2. BA(H) Eng III 3. BA(H) Eng III	1. European Classical Literature 2. Popular Fiction 3. Romanticism
	Practicals	NA	NA	NA
	Tutorials	1. Contemporary Literature	1. BA(H) Eng III	1. Contemporary Literature
August	**Theory:**	1 to 3 same as July 4. Reading & Writing Skills 5. Creative Writing	- do - 4. Life & Le BA(H) Eng I 5. BA(H) Eng II	- do - 4. AECC 5. AEEC
	Practicals:			
	Tutorials:	1. same as July 2. Letter writing 3. Language, Literature & Culture.	2. B.Com (P) I 3. B.A(H) Eng I	2. Advanced English A~. 3. G.E.

	Assignment :	1. Apartheid 2. Letter writing 3. Short Story	BA (H) ENG III Life Sc - I BA (H) ENG II	Contempory Lit AECC AEEC
SEPTEMBER	**Theory:**	same as August		
	Practicals:			
	Tutorials:	same as August		
	Test	1. The Narrative of the novel My Son's Story 2. Translation Studies 3. Writing and Resistance	BA (H) ENG III Life Sc - I BA (H) ENG II	1. Contemporary Literature 2. AECC 3. AEEC.
	Theory:			
	Practicals:			
	Tutorials:			

SEMESTER WISE TEACHING PLAN
SRI VENKATESWARA COLLEGE

Name of the Faculty: NITYA DATTA **Department:** ENGLISH

Semester : I/III/V TEACHING PLAN FOR AUGUST + SEPTEMBER 2016

Month		Topics	Course	Paper Code/Name
JULY	**Theory**			
	Practicals			
	Tutorials			
AUGUST	**Theory:**	(1) Alice (text) & Victorian England + (2) 20th C Background	(3) Ideas of 'post-colonialism' America	(1) Popular lit. (2) American Lit. (3) Contemporary lit. (4) AECC
	Practicals:	(4) communication theory + writing skill		
	Tutorials:	Background Essays		
SEPTEMBER	**Theory:**	(1) Alice (text) (2) Background to 20th C Drama → Tennessee Williams (3) Fanon + N'gugi (4) Writing + reading practice		(1) Pop lit. (2) American lit. (3) Contemporary lit (4) AECC

	Practicals:			
	Tutorials:	Background readings + topics.		
	Assignment :	• For Alice ATECC - letter writing + Reading skills		
OCTOBER	**Theory:**			
	Practicals:			
	Tutorials:			
	Test			
NOVEMBER	**Theory:**			
	Practicals:			
	Tutorials:			