

St. Stephen's College University of Delhi Delhi 110007

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1.1.1 Lesson Plans





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Political Science Department

PRINCIPAL

ST. STEPHEN'S COLLEGE DELHI-110007





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E-mail: pstoprincipal@ststephens.edu Website: www.ststephens.edu

Name of the Faculty Member: Alia Zaman Department: Political Science, Year: 2017-18

Month	Theory/Tutorials	Topics	Course	Paper code/ Name
July	Theory	1. Public administration as a discipline: Meaning, scope and significance of the subject, public and private administration, brief evolution and major approaches, and comparative approaches to public administration.	BAP Political Science Discipline Specific Elective Semester V	Administration and Public Policy: Concepts and Theories
August	Theory	2. Administrative theories: the classical theory, scientific management, the human - relation theory, and rational decision-making.	BAP Political Science Discipline Specific Elective Semester V	Administration and Public Policy: Concepts and Theories
September	Theory	3. Development administration: Elements of development administration. Time and space dimensions in the study of development administration, politics of development administration.	BAP Political Science Discipline Specific Elective Semester V	Administration and Public Policy: Concepts and Theories
October	Theory	4. Understanding public policy: concept and theories, relevance of policy making in public administration and process of policy formulation and implementation and evaluation.	BAP Political Science Discipline Specific Elective Semester V	Administration and Public Policy: Concepts and Theories





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Name of the Faculty Member: Alia Zaman Department: Political Science. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory	1. Concept of Globalisation: Globalisation debate; for and against. 2. Approaches to understanding globalisation: a. Liberal approach b. Radical approach	GE for Hons Sem-IV	Politics of Globalization
February	Theory	3. International Institutions/Regimes a. World Bank b. International Monetary Fund c. The World Trade Organisation	GE for Hons Sem-IV	Politics of Globalization
March	Theory	4. Issues in Globalisation: Alternative Perspectives on its nature and character, critical dimensions: economic, political and cultural 5. Globalisation and democracy: State, sovereignty and the civil society. 6. Globalisation and Politics in developing countries a. Globalisation and social movements b. Globalisation and the demise of Nation State	GE for Hons Sem-IV	Politics of Globalization
April	Theory	c. Globalisation and human migration 7. The inevitability of globalisation: Domestic and Global responses	GE for Hons Sem-IV	Politics of Globalization





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Name of the Faculty Member: PIA DAVID

Department: POLITICAL SCIENCE. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Lectures by Prof. Sanjay Kumar, Director Lokniti, on quantitative data analysis- 4 Hours. Dr. Jyoti Mishra on Reading Data- 2 Hours	I. Introduction to the course (6 lectures) Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll	5TH SEMESTER BA PROGRAMME	PUBLIC OPINION AND SURVEY RESEARCH
August	Watching documentaries on Data Analysis - Hack available on Netflix and Interview reading by Professor Yogendra Yadav	II. Measuring Public Opinion with Surveys: Representation and sampling (6 lectures) a. What is sampling? Why do we need to sample? Sample design. b. Sampling error and non-response c. Types of sampling: Non random sampling (quota, purposive and snowball sampling); random sampling: simple and stratified		
September - October		III. Survey Research (2 lectures) a. Interviewing: Interview techniques pitfalls, different types of and forms of interview b. Questionnaire: Question wording; fairness and clarity		
November - December		IV. Quantitative Data Analysis (4 lectures) a. Introduction to quantitative data analysis b. Basic concepts: correlational research, causation and prediction, descriptive and inferential Statistics V. Interpreting polls (6 lectures) Prediction in polling research: possibilities and pitfalls Politics of interpreting polling		





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Name of the Faculty Member: PIA DAVID

Department: POLITICAL SCIENCE. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	For practical presentation made on book, Beyond America's grasp, Stephen P Cohen	Understanding Conflict (Week 1) b. Conflict Management, Conflict Resolution and Conflict Transformation (Week 2) c. Peace Building (Week 3)	6TH SEMESTER B A PROGRAMME	PEACE AND CONFLICT RESOLUTION
February	same as above	Dimensions of Conflict (6 Lectures) a. Ideology (Week 4) b. Economic/Resource Sharing Conflicts (Week 5) c. Socio-Cultural Conflicts (Ethnic, Religious, Gender-based)		
March	same as above	a. Local (Week 7) b. Sub-National (Week 7) c. International (Week 8)		
April	same as above	a. Negotiations: Trust Building (Week 9) b. Mediation: Skill Building; Active Listening (Week 10) c. Track I, Track II & Multi Track Diplomacy (Week 11) d. Gandhian Methods (Week 12)		





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History Department

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Name: Sangeeta Luthra Sharma Department: History. Year: 2017-18

Month	Theory/ Tutorials	Topics	Course	Paper Name
Jul-August		Confucian Value system China and the Great Divergence Debate	HISTORY OF MODERN CHINA (1840- 1960)	DSE XI Revised CBCS
September		Opium Wars and the Unequal Treaty System Taiping and Boxer Movements – Causes, Ideology, Nature. Discussion on debates on GD and opium wars; Comparison between Taiping and Boxer Movements		
October		Self-Strengthening Movement; Hundred Days Reforms of 1898 The Revolution of 1911: Context, Nature and Role of Social Classes Sun Yat-sen (Sun Zhong Shan)- Ideology and Three Peoples Principles Warlordism. Discussions on failures of 19 th reform efforts. Transition of China from period of Imperialist control to phase of Nationalism		
November		Origins and Significance; May Fourth Movement of 1919 1921-1927: Formation of the CCP and early activities; Reorganization of the KMT (Nationalist Party); The First United Front 1928-1949: Kiangsi (Jiangxi) Period; Evolution of Maoist Strategy and Revolutionary Measures; the Yenan Phase; Peasant Nationalism and Communist Victory Establishment of the New Order and Mao's Strategy of Development Great Leap Forward: Debates.; Details of Relation between May Fourth movement and the emergence of political parties, details of 1920s political developments Emergence of Mao- different phases of peasant nationalism Topic of the Great Leap Forward was covered in tutorial classes		

John Vnoghe

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Name: Sangeeta Luthra Sharma Department: History. Year: 2017-18

Month	Theory/ Tutorials	Topics	Course	Paper code/Name
January		Crisis of Tokugawa Bakuhan system The Meiji Restoration; limits to modernization Economic change: Agrarian Settlement; fiscal policies; Capitalism and Industrialisation Popular/People's Rights Movement; gender Meiji Constitution; political parties Discussions revolving around early history of Japan Discussions on varied interpretations on 'democracy' and constitution- ambiguities	HISTORY OF MODERN JAPAN (1868- 1950S)	DSE XII
February		History of Korea- The Old Order and Institutional decay: Joseon Korea's relations with China, Japan and western powers Attempts at social, political and economic reform Japan- Militarism and fascism - Nature and significance. Discussion on early history of Korea-comparison with Japan, and how 19 th century developments in Japan impacted 20 th century politics		
March		Japanese Imperialism 1868-1945; ideology; expansion and conflict American occupation of Japan and post-War reconstruction; Changing nature of Japanese politics- impact on Japan's international positioning		
April		Japan's colonisation of Korea and growth of Korean Nationalism (1910-45) 1910-1919: Consolidation of Japanese power 1919-1931: March First Movement (1919); Saito Reforms of 1920s 1931-1945: War mobilisation; Japanese policy of assimilation; Korean response The Korean War; Impact of Japanese imperialism on Korea and Korea's response – analysis of Korean nationalism		

John Vrugher

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Name of the Faculty Member: Dr. Amrita Tulika

Department: History

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory	Colonialism and forms of labour Laying the foundation of independent India- constitution, linguistic re- organization	History Hons. Semester V GE for Hons Courses	12317501/ DSE I- History of the USA: Independence to Civil War 12315355/ The Making of Contemporary India (1950- 1990s)
August	Theory	Forms of labour; American Revolution; Federalist constitution; Westward Expansion Foreign policy; Five Year Plans; Education, science and technology	Same as above Same as above	Same as above Same as above
September	Theory	Marginalization of indigenous tribes; Turner's thesis; Early capitalism; Slavery Uneven economic development- Punjab and Bihar; Political formations- Congress and Left parties; Caste politics; Dravidian movement; Women and Politics	Same as above Same as above	Same as above
October	Theory	US quest for dominance- war and diplomacy; The Civil War- politics, issues, historiography J.P. Movement and Emergency; Coalition politics; Mandal Commission; Neo- liberalism; Print and Visual Media	Same as above Same as above	Same as above

Jen Graphe

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Name of the Faculty Member: Dr. Amrita Tulika

Department: History

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory	Religious and linguistic identities; assertion of caste identity; economic critique of colonial rule; rise of modern industry	History Hons. Semester VI	12311601/ Core Course- History of India (c.1857- 1950)
		Reconstruction: agrarian transformation; Share-cropping; new social groups; The Gilded Age	History Hons. Semester VI	12317601/ DSE V- History of the USA: Reconstruction to New Age Politics
February	Theory	Early nationalism; Intellectual foundations of Gandhian Nationalism; Gandhian Movements	Same as above	Same as above
		Agrarian crisis; Populism; Progressivism; New Deal; Stereotypes of women	Same as above	Same as above
March	Theory	Quit India Movement; Ambedkar; Singh Sabha and the Akali Movement; Peasants and workers; tribal movements Women and politics; Class and gender; Women's Liberation; African- American Movements	Same as above	Same as above
April	Theory	Communalism and Partition; Independence and a new state	Same as above	Same as above
		Imperialism	Same as above	Same as above

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Name of the Faculty Member: Dr. Sabina Kazmi

Department: History

2017-18

Month	Theory/ Practical/ Tutorials	Course	Paper Name	Paper Code	Topics
July – November 2017	Theory	B.A.Hons. History (Semester III)	The Mise of modern West-I		 Transition from feudalism to capitalism - problems and theories Motives, voyages and early colonial expansion, with focus on plantation economy and transatlantic slave system Renaissance- its origin and social roots, the role of city states will be examined in detail along with the development of Renaissance art and Humanism European Reformation -origins and consequence European state system -any two case studies (England and Russia)
	Theory	B.A. Prog. DSE (Semester V)	Political History of Early Modern Europe		 Political dimensions of the feudal crisis Development of European polities- from city state to absolutist monarchy Constitutional conflicts in the 17th century - England civil war and revolution Crisis of Absolutist state - France





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Name of the Faculty Member: Dr. Sabina Kazmi

Department: History

2017-18

Month	Theory/ Practical/ Tutorials	Course	Paper Name	Paper Code	Topics
January – April -2018	Theory	B.A.Hons. History (Semester IV)	The Rise of Modern West-II		 We begin with analysis of 17th c. crisis in Europe -Its Political, social and Economic Aspects Major political and intellectual issues in the 17th century England (civil war and revolution) Development of Modern Science in Europe will be discussed along with historiography and major achievements of Scientific Revolution Mercantism and trade in 17th - 18th century Europe
	Theory and fieldwork	B.A.Hons. History (Semester IV)	SEC – Indian Art and Architecture		 This paper will be shared between Dr. T. Suhrawardy and Dr. Sabina Kazmi Indian art of the Early Medieval period, with special reference to temple architecture/ various styles Rise of Modern Art in India, with a focus on the Bengal School of Art (late 19th-early 20th c.) Field visit to National Museum

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Economics Department





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Name of the Faculty Member: Poonam Kalra. Department: Economics. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory(5 per week)	Introduction and overview, The distinction between populations and samples and between population parameters and sample statistics, Elementary probability theory Sample spaces and events; probability axioms and properties; counting techniques; conditional probability and Bayes' rule; independence	B.A.(Hons.) Economics	HC33(Statistical Methods for Economics)
	Tutorial(1 per week)	Discussed questions from Devore chapters 1 and 2		
August	Theory(5 per week)	Random variables and probability distributions Defining random variables; probability distributions; expected values and functions of random variables; properties of commonly used discrete and continuous distributions (uniform, binomial, exponential, Poisson, hypergeometric and Normal random variables	B.A.(Hons.) Economics	HC33(Statistical Methods for Economics)
	Tutorial(1 per week)	Discussed questions from chapters 3 & 4 of Devore		
September	Theory(5 per week)	Random sampling and jointly distributed random variables Density and distribution functions for jointly distributed random variables; computing expected values of jointly distributed random variables; covariance and correlation coefficients	B.A.(Hons.) Economics	HC33(Statistical Methods for Economics)
	Tutorial(1 per week)	Discussed questions from chapter 5 of Devore		
October and November	Theory(5 per week)	Point and interval estimation, estimation of population parameters using methods of moments and maximum likelihood procedures; properties of estimators; confidence intervals for population parameters	B.A.(Hons.) Economics	HC33(Statistical Methods for Economics)
	Tutorial(1 per week)	Discussed questions from chapters 6 & 7 of Devore		

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Name of the Faculty Member: Poonam Kalra. Department: Economics. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory(5 per week)	Macroeconomic policies and their impact: fiscal policy; financial and monetary policies	B.A.(Programme.)	PDE61(EDPI-II)
	Tutorial(1 per week)	Discussed articles by Joshi and Dua		
February	Theory(5 per week)	AGRICULTURE Policies and performance; Production and productivity; credit; labour; markets and pricing; land reforms; regional variations	B.A.(Programme.)	PDE61(EDPI-II)
	Tutorial(1 per week)	Discussed articles by Vaidyanathan, Ghatak etc.		
March	Theory(5 per week)	INDUSTRY Policies and performance; production trends; small scale industries; public sector; foreign investment, labour regulation	B.A.(Programme.)	PDE61(EDPI-II)
	Tutorial(1 per week)	Discussed articles by Nagaraj and a chapter in the Economic Survey etc.		
April	Theory(5 per week)	SERVICES AND TRADE Trends and performance; trade and investment policy	B.A.(Programme.)	PDE61(EDPI-II)
	Tutorial(1 per week)	Discussed article by Rupa Chanda		

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Name: Leema Mohan Paliwal Department: Economics

Year: 2017-18

Month	Theory/Tutorials	Topics	Course	Paper Name/ Code
July	Theory, Tutorials	Introduction, Traditional Theories of International Trade:	BA Hons.	International Economics
	Theory	Consumer Theory Introduction to Indifference curves and budget constraint	BA Hons	Intermediate Microeconomics I
August	Theory, Tutorials	New trade theories, the international location of production, Firms in global economy	BA Hons.	International Economics
	Theory	Consumer Theory: Utility optimization, demand curves	BA Hons	Intermediate Microeconomics I
September	Theory, Tutorials	Trade Policies,	BA Hons.	International Economics
	Theory	Substitution and income effect, Slutsky equation, Theory of Revealed preference	BA Hons	Intermediate Microeconomics I
October	Theory, Tutorials	Fixed versus flexible exchange rates;	BA Hons.	International Economics
	Theory	Production Theory and Cost function	BA Hons	Intermediate Microeconomics I
November	Theory, Tutorials	International monetary systems; financial globalization and financial crises.	BA Hons.	International Economics
	Theory	Perfect Competition profit maximization, Profit Function	BA Hons	Intermediate Microeconomics I

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Name: Leema Mohan Paliwal Department: Economics

Year: 2017-18

Month	Theory/Tutorials	Topics	Course	Paper Name/ Code
January	Theory, Tutorials	National Income Accounting	BA Hons. Economics	Introductory Macroeconomics
	Theory	National Income Accounting	GE I	Introductory Macroeconomics
February	Theory, Tutorials	Money Demand and Money supply	BA Hons. Economics	Introductory Macroeconomics
	Theory	What is Money Money supply	GE I	Introductory Macroeconomics
March	Theory, Tutorials	Classical Model and Keynesian Model	BA Hons. Economics	Introductory Macroeconomics
	Theory	Classical Model and the Keynesian cross	GE I	Introductory Macroeconomics
April	Theory, Tutorials	IS -LM Model and inflation	BA Hons. Economics	Introductory Macroeconomics
	Theory	IS-LM Model and Inflation	GE I	Introductory Macroeconomics

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Name of the Faculty Member: Manjula Singh Department: Economics. Year: 2017-2018

Month	Theory/ Tutorials	Topics	Course	Paper code/ Name
July	Theory & Tutorials	Conceptions of Development	BA (H) Economics	12271502 Development Economics - I
August	Theory & Tutorials	Growth Models and Empirics	BA (H) Economics	12271502 Development Economics - I
September	Theory & Tutorials	Poverty and Inequality Definitions, Measures and Mechanisms	BA (H) Economics	12271502 Development Economics - I
October	Theory & Tutorials	Political Institutions and the Functioning of the State	BA (H) Economics	12271502 Development Economics - I

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Name of the Faculty Member: Manjula Singh Department: Economics. Year: 2017-2018

Month	Theory/Tutorials	Topics	Course	Paper code/ Name
January	Theory & Tutorials	Nature and scope of Econometrics Simple Linear Regression Model: Two Variable Case Review of Statistics: normal distribution, chisquare, t- and F-distributions; tests for comparing parameters from two samples. Estimation of model by method of ordinary least squares; Properties of estimators; Goodness of fit; Testing of Hypotheses; Scaling and units of measurement; Confidence intervals; Gauss Markov Theorem; Forecasting	BA (H) Economics	12271403 Introductory Econometrics
February	Theory & Tutorials	Multiple Linear Regression Model w Estimation of parameters; Properties of OLS estimators; Goodness of fit- R2 and Adjusted R2; Partial regression coefficients; w Testing Hypotheses: Individual and Joint;	BA (H) Economics	12271403 Introductory Econometrics
March	Theory & Tutorials	w Functional Forms of Regression Models; w Qualitative (dummy) independent variables Violations of Classical Assumptions: Consequences, Detection and Remedies w Multicollinearity	BA (H) Economics	12271403 Introductory Econometrics
April	Theory & Tutorials	Heteroscedasticity; π Auto-correlation Specification Analysis π Omission of a relevant variable; π Inclusion of irrelevant variable; π Tests of specification	BA (H) Economics	12271403 Introductory Econometrics

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Name: Saumaly Ghosh Department: Economics Academic Year: 2017-2018

Month	Theory/Tutorials	Topics	Course	Paper code/ Name
July	Theory+Tutorials	Absolute and Comparative Advantage theories	BA (H) economics semester V	International Economics
	Theory+Tutorials	Growth and development	BA Prog. Semester V	Economic Development and Policy in India-I
August	Theory+Tutorials	Hecksher Ohlin Model; Ricardian model	BA (H) economics semester V	International Economics
	Theory+Tutorials	Readings on growth and development	BA Prog. Semester V	Economic Development and Policy in India-I
September	Theory+Tutorials	Tariffs and trade policy	BA (H) economics semester V	International Economics
	Theory+Tutorials	Readings on education	BA Prog. Semester V	Economic Development and Policy in India-I
October	Theory+Tutorials	Regulation and trade policy	BA (H) economics semester V	International Economics
	Theory+Tutorials	Readings on health	BA Prog. Semester V	Economic Development and Policy in India-I

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Name: Saumaly Ghosh Department: Economics Academic Year: 2017-2018

Theory/Tutorials	Topics	Course	Paper code/ Name
Theory+Tutorials	Introduction to environmental economics; Sustainable development; Welfare theorems	BA(H) economics VIth semester	Environmental Economics
Theory+Tutorials	Introduction to the budget	BA(H) economics IVth semester	Contemporary economic issues
Theory+Tutorials	Coase theorem and property rights	BA(H) economics VIth semester	Environmental Economics
Theory+Tutorials	Readings on the Finance commission; project topic selection and discussion	BA(H) economics IVth semester	Contemporary economic issues
Theory+Tutorials	Regulation; prescriptive regulations and economic incentives	BA(H) economics VIth semester	Environmental Economics
Theory+Tutorials	Chapters from Economic Survey	BA(H) economics IVth semester	Contemporary economic issues
Theory+Tutorials	Environmental pricing	BA(H) economics VIth semester	Environmental Economics
Theory+Tutorials	Chapters from Economic Survey	BA(H) economics IVth semester	Contemporary economic issues
	Theory+Tutorials Theory+Tutorials Theory+Tutorials Theory+Tutorials Theory+Tutorials Theory+Tutorials	Theory+Tutorials	Theory+Tutorials Introduction to environmental economics; Sustainable development; Welfare theorems VIth semester Theory+Tutorials Introduction to the budget BA(H) economics IVth semester Theory+Tutorials Coase theorem and property rights BA(H) economics VIth semester Theory+Tutorials Readings on the Finance commission; project topic selection and discussion IVth semester Theory+Tutorials Regulation; prescriptive regulations and economic incentives VIth semester Theory+Tutorials Chapters from Economic Survey BA(H) economics IVth semester Theory+Tutorials Environmental pricing BA(H) economics VIth semester Theory+Tutorials Chapters from Economic Survey BA(H) economics VIth semester Theory+Tutorials Chapters from Economic Survey BA(H) economics VIth semester





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English Department





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Name of the Faculty Member: Dr. Karen Gabriel

Department: English

Year: 2017-18

Month	Theory/	Topics	Course	Paper code/ Name
	Practical/		9	
	Tutorials			
July	Theory+	Introduction to American Literature;	BA (Hons)	American Literature
	Tutorials	literature written by writers of European	English, II Year	(12031301)
		and African descent; Transcendentalism,	(Core)	
		pre- and post-civil war America, Slavery		
		and the Civil Rights Movement.		
August	Theory+	Introduction to Toni Morrison;	BA (Hons)	American Literature
	Tutorials	Introduction to African American	English, II Year	(12031301)
		Literature and its varied concerns.	(Core)	
		Introduction to Black Women's Writings.		
		Start with Morrison's novel 'Beloved'.		2
September	Theory+	Social Realism and the American Novel.	BA (Hons)	American Literature
	Tutorials	Finish Morrison's 'Beloved'. Reflections	English, II Year	(12031301)
		on the idea of the 'American Dream'. Start	(Core)	
		with short stories: Edgar Allen Poe's 'The		
		Purloined Letter'.		
October-November	Theory+	Continuation with short stories.	BA (Hons)	American Literature
	Tutorials	Introduction to the authors and their	English, II Year	(12031301)
		literary concerns: F. Scott Fitzgerald's	(Core)	
		'The Crack Up' and William Faulkner's		
		'Dry September'. Folklore and American		
0 1		literature.		





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Name of the Faculty Member: Dr. Karen Gabriel

Department: English

Year: 2017-18

Month	Theory/	Topics	Course	Paper code/ Name
	Practical/			
	Tutorials			Walter August
January	Theory+	James Monaco's 'The Language of Film:	BA (Hons) English, III	Literature and
	Tutorials	Signs and Syntax'; different ways to read and interpret film; montage, mise-en-scene etc, and related theories.	Year (DSE)	Cinema (12037614)
February	Theory+	Introduction to William Shakespeare and	BA (Hons) English, III	Literature and
	Tutorials	Elizabethan England; Reading of the play 'Romeo and Juliet'.	Year (DSE)	Cinema (12037614)
March	Theory+	Screening of the cinematic adaptations of	BA (Hons) English, III	Literature and
	Tutorials	'Romeo and Juliet' and analysis of these films: Romeo and Juliet (1968, dir. by Franco Zeffirelli) and Romeo + Juliet (1996, dir. By	Year (DSE)	Cinema (12037614)
		Baz Luhrmann)		
April	Theory+	Theories of adaptation: Linda Hutcheon's 'On	BA (Hons) English, III	Literature and
	Tutorials	the art of adaptation', and Thomas Leitch's 'Adaptation Studies at Crossroads'	Year (DSE)	Cinema (12037614)





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Name: Dr. Smita Gandotra

Department: English

Year: 2017-18

Month	Theory and Tutorials	Topics	Course and Paper Title	Paper code
July	Subhash and Durgabai Vyam's Bhimayana Rabindranath Tagore's Gitanjali; Premchand's story "Kafan" and Ismat Chughta'sstory "Lihaf"	 (a) Graphic books, history and context (b) Tagore and the Nobel, Premchand and the question of caste, same sex love in Indian writing 	English Honours; Popular Literature English Honours; Modern Indian Writings in English Translation	Popular Literature, 12031302 Modern Indian Writings in English Translation, 12037501
August	Subhash and Durgabai Vyam's Bhimayana Saadat hasan Manto's Toba Tek Singh and Fakir Mohan Senapati's Rebati	 (a) A comparison between Amar Chitra Katha and Vavayana graphic books (b) Partition literature and the theme of gender, education and disease in early Indian literature 	English Honours; Popular Literature English Honours, Modern Indian Writings in English Translation	Popular Literature, 12031302 Modern Indian Writings in English Translation, 12037501
September	Shyam Selvadurai's Funny Boy Dharamvir Bharati's Andha Yug	(a) Conflict literature and the Sri Lankan civil war in literature (b) Indian drama, history and context	English Honours; Popular Literature English Honours, Modern Indian Writings in English Translation	Popular Literature, 12031302 Modern Indian Writings in English Translation, 12037501
October	Shyam Selvadurai's Funny Boy Dharamvir Bharati's Andha Yug and Muktibodh's poetry	(a) Role playing, gender and violence in Funny Boy(b) Experiments in modern Hindi poetry	English Honours; Popular Literature English Honours, Modern Indian Writings in English Translation	(a)Popular Literature, 12031302 (b) Modern Indian Writings in English Translation, 12037501

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Name: Dr. Smita Gandotra

Department: English

Year: 2017-18

Month	Theory/ Tutorials	Topics	Course and Paper Title	Paper code/ Name
January	(a) Anita Desai's In Custody (b) Chinua Achebe's Things Fall Apart	 (a) Indian writing in English, history, reception and significant periods (b) The postcolonial novel 	(c) English Honours, Indian Writings in English (d) English Honours, Postcolonial Literatures	(a) Indian Writings in English; 12031201(b) Postcolonial Literatures; 12031602
February	(a) Anita Desai's In Custody (b) Chinua Achebe's Things Fall Apart	(a) Deven and Nur, In Custody, the Hindi-Urdu debate (b) Okonkwo, Nwoye, the structures of Igbo society	(c) English Honours, Indian Writings in English(d) English Honours, Postcolonial Literatures	(a) Indian Writings in English; 12031201 (b) Postcolonial Literatures; 12031602
March	 (a) Anita Desai's In Custody and Kamala Das's poetry (b) Pablo Neruda, Derek Walcott's and Mamang Dai's poetry 	 (a) The women of In Custody and gender in Indian poetry (b) Postcolonial poetry, resistance, and alternative locations 	(c) English Honours, Indian Writings in English(d) English Honours, Postcolonial Literatures	(a) Indian Writings in English; 12031201 (b) Postcolonial Literatures; 12031602
April	(a) Nissim Ezekiel, Robin Ngangom and Meena Kandasamy's poetry (b) The short stories of Bessie Head, Ama Ata Aidoo and M. M. Vinodini	(a) The Indian poets of the 1960s in Mumbai, the Shillong school of poetry and gender and caste in Indian poetry (b) Gender and the postcolonial story	 (c) English Honours, Indian Writings in English (d) English Honours, Postcolonial Literatures 	(a) Indian Writings in English; 12031201 (b) Postcolonial Literatures; 12031602





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Name of the Faculty Member: Themeem T

Department: English

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory	1) Introduction to the Course. 2) Poetry Passage to India by Walt Whitman, 'O Captain! My Captain', by Walt Whitman	B A Hons II Year	American Literature
August	Theory and Tutorial	"The Prologue" by Anne Bradstreet	B A Hons II Year	American Literature
September	Theory	"Crow Testament" and "Evolution" by Sherman Alexie	B A Hons II Year	American Literature
October	Theory	Tennessee Williams The Glass Menagerie	B A Hons II Year	American Literature

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Name of the Faculty Member: Themeem T.

Department: English

Year: 2017-18

Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
Theory	Introduction. Manto, 'Toba Tek Singh'	III BA Hons	Partition Literature
Theory	"A Leaf in A storm" by Lalithambika Andarjanam	III BA Hons	Partition Literature
Theory	"Alam's Own House" by Dibyendu Palit	III BA Hons	Partition Literature
Theory	Basti by Intizar Hussain	III BA Hons	Partition Literature
	Tutorials Theory Theory Theory	Theory Introduction. Manto, 'Toba Tek Singh' Theory "A Leaf in A storm" by Lalithambika Andarjanam Theory "Alam's Own House" by Dibyendu Palit	Theory Introduction. Manto, 'Toba Tek Singh' Theory "A Leaf in A storm" by Lalithambika Andarjanam Theory "Alam's Own House" by Dibyendu Palit III BA Hons III BA Hons III BA Hons

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Name of the Faculty Member: Ann Susan Aleyas

Department: English

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory	Introduction to the terms 'Indian', 'Classical' and 'Literature' Introduction (cont) through discussion of the following allotted readings. Introduction to terms such as "Dharma", "Purusarthas", "Shruti", "Smriti", "Itihasa" etc. Introduction to Ramayana and Mahabharata focusing on its generic classification as 'epics' and as "mahakavyas"/"panchamveda" etc. This session will also involve readings from selections in Adi Parva/ Book of the Beginnings	B.A.English (Hons) – I (Semester I)	Indian Classical Literature
August	Theory	Introduction to "Dicing" and the" Sequel to Dicing" from the <i>Mahabharata</i> Close reading and Discussions of the "Dicing" Close reading and Discussions of the "Sequel to Dicing"	B.A.English (Hons) – I (Semester I)	Indian Classical Literature
September	Theory	Student Presentations and Discussions on <i>Natyashastra</i> . Introduction to Rasa Theory Introduction to <i>Mrcchakatika</i> by Shudraka Close reading and discussion of the various themes in <i>Mrcchakatika</i> .	B.A.English (Hons) – I (Semester I)	Indian Classical Literature
October	Theory	Revision of sections from <i>Mahabharata</i> and <i>Mrcchakatika</i> . Discussion of secondary readings.	B.A.English (Hons) – I (Semester I)	Indian Classical Literature

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Name of the Faculty Member: Ann Susan Aleyas

Department: English

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory	Introduction to Women's Writing. Introduction to French and American Feminist Theory Feminism in India Introduction to Colour Purple	B.A.English (Hons) – III (Semester V)	Women's Writing
February	Theory	Close reading and analysis of Alice Walker's Colour Purple Thematic Discussion of Alice Walker's Colour Purple Introduction to Womanism Discussion on readings by bell hooks, Patricia Hill Collins and additional short stories of Alice Walker	B.A.English (Hons) – III (Semester V)	Women's Writing
March	Theory	Close reading, discussion and thematic analysis of Charlotte Perkin Gilman's "Yellow Wallpaper". Close reading, discussion and thematic analysis of Katherine Mansfield's "The Yellow Wallpaper". Student Presentations of various themes of "The Yellow Wallpaper" Close reading and discussion of Katherine Mansfield's "Bliss"	B.A.English (Hons) – III (Semester V)	Women's Writing
April	Theory	Close reading, analysis and discussion of Mahasweta Devi's "Draupadi" Student presentations on Mahasweta Devi's <i>Breast S</i> tories and secondary readings Revision of all the texts in the syllabus	B.A.English (Hons) – III (Semester V)	Women's Writing

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Philosophy Department

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Name of the Faculty Member: Dr Silika Mohapatra

Department: Philosophy

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July		Descartes/Spinoza	BAH Philo III Sem	History of Western Philosophy
		Madhyamakakarika/Causation	BAH Philo V Sem	Texts of Indian Philosophy
August		Leibniz/Locke	BAH Philo III Sem	History of Western Philosophy
		Madhyamakakarika/Causation	BAH Philo V Sem	Texts of Indian Philosophy
September		Berkeley/Hume	BAH Philo III Sem	History of Western Philosophy
		Madhyamakakarika/Nirvana	BAH Philo V Sem	Texts of Indian Philosophy
October		Kant	BAH Philo III Sem	History of Western Philosophy
		Madhyamakakarika/Nirvana	BAH Philo V Sem	Texts of Indian Philosophy

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Name of the Faculty Member: Dr Silika Mohapatra

Department: Philosophy

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January		Art and Experience	BAH Philo Sem IV	Art and Film Appreciation
		Ananda K. Swamy	BAH Philo Sem VI	Aesthetics
		Descartes/Spinoza	BAP IV Sem	Western Philosophy
February		Film as Art Form	BAH Philo Sem IV	Art and Film Appreciation
		Kapila Vatsyayana	BAH Philo Sem VI	Aesthetics
		Leibniz/Locke	BAP IV Sem	Western Philosophy
March		Art, Social Values, Morality	BAH Philo Sem IV	Art and Film Appreciation
		Rekha Jhanji Berkeley/Hume	BAH Philo Sem VI	Aesthetics
		Berkeley/11ame	BAP IV Sem	Western Philosophy
April		Art and Communication through Films	BAH Philo Sem IV	Art and Film Appreciation
			BAH Philo Sem VI	Aesthetics
		M. Hiriyana	BAP IV Sem	Western Philosophy
		Kant	WEN'S	

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Name of the Faculty Member: Alphy Geever Department: Philosophy. Year: 2017-2018

Month	Theory/ Tutorials	Topics	Course	Paper Code/ Name
January		Unit I: A General Survey of Pre-Socratic Philosophy (Cosmology)	BA (Hons)	12101201
		Metaphysics Book I (Aristotle)	(II Year)	Greek Philosophy
February	Non-	Unit I: A General Survey of Pre-Socratic Philosophy (Cosmology)		
		Heraclitus: Doctrine of Flux and Logos (Tankha)		
		[Introduction to Buddhism (Hiriyana)]		
		[Madhyamakarika (Nagarjuna)]		
		Parmenides: Nature of Being (Tankha)		
		[The Legacy of Parmeindes: Eleatic Monism and Later Presocratic		
		Thought (Patricia Curd)]		
		Unit II: Epistemology		
		Sophists and Socrates (Tankha)		
		Man is the Measure of All Things- Protagoras (Tankha)		
		Virtue is Knowledge- Socrates (Tankha)		
March		Unit III: Socio-Political Thought		
		Justice in the State and the Individual in The Republic (Plato)		
		Tutorial Readings		
		[Justice and Psychic Harmony (Vlastos)]		
		[Analogy of Letters, Myth of the Metals]		
		[Analogy of Sun, Line and Cave]		
		[Introduction to Theory of Forms]		
April		Unit IV: Aristotelian Thought		
		Nature and Change in Physics Book I and II (Aristotle)		
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Sanskrit Department





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Name: A.D. Mathur Department: Sanskrit

Year: 2017-18

Month	Theory/Tutorials	Topics	Course	Paper code/ Name
July	Theory and Tutorials	Nitishatakam	BA (H) I BA (H) II BA (H) III BA (H) III	C -1 Sanskrit Poetry C -7 Indian Social Institutions and Polity C -11 Vedic Literature DSE – 1 Indian System of Logic and Debate
August	Theory and Tutorials	Nitishatakam	BA (H) I BA (H) II BA (H) III BA (H) III	C -1 Sanskrit Poetry C -7 Indian Social Institutions and Polity C -11 Vedic Literature DSE – 1 Indian System of Logic and Debate
September	Theory and Tutorials	Nitishatakam	BA (H) I BA (H) II BA (H) III BA (H) III	C -1 Sanskrit Poetry C -7 Indian Social Institutions and Polity C -11 Vedic Literature DSE – 1 Indian System of Logic and Debate
October	Theory and Tutorials	Nitishatakam	BA (H) I BA (H) II BA (H) III BA (H) III	C -1 Sanskrit Poetry C -7 Indian Social Institutions and Polity C -11 Vedic Literature DSE – 1 Indian System of Logic and Debate

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Name: A.D. Mathur Department: Sanskrit

Year: 2017-18

Month	Theory/Tutorials	Topics	Course	Paper code/ Name
January	Theory and	Gītā: Cognitive and emotive apparatus	BA Hons. I	C-4 Self Management in the Gita
	Tutorials	Unit: I		C – 10 Sanskrit and World
		Hierarchy of indriya, manas, buddhi and ātman	BA Hons. II	Literature
		Role of the ā tman		C -13 Indian Ontology and
		Mind as a product of prakṛti	BA (H) III	Epistemology
		Properties of three gunas and their impact on the mind		
February	Theory and	Gītā: Controlling the mind	BA Hons. I	C-4 Self Management in the Gita
	Tutorials	Confusion and conflict in mind		C – 10 Sanskrit and World
		Nature of conflict	BA Hons. II	Literature
		Causal factors – Ignorance; Rajoguņa		C -13 Indian Ontology and
		Means of controlling the mind	BA (H) III	Epistemology
		Meditation-difficulties in procedure		
ing de la		Balanced life, Diet control, Physical, mental discipline.		
March	Theory and	Means of conflict resolution in Gītā	BA Hons. I	C-4 Self Management in the Gita
	Tutorials	Importance of knowledge	long tender at the second	C – 10 Sanskrit and World
		Clarity of buddhi .	BA Hons. II	Literature
		Process of decision making		C -13 Indian Ontology and
		Control over senses	BA (H) III	Epistemology
		Surrender of kartṛbhāva; Desirelessness		
		Putting others before self		





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Hindi Department





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Name of the faculty member - Dr. Ashutosh Shukla

Department - Hindi. Year - 2017-18

Month	Theory/Tutorial	Topics	Course	Paper Code/Name
July-Augus	Theory & Tutorial	Hindi bhasha aur sahitya	BA Programme	MIL- Hindi
				B/62051412
		Vimarsho ki saidhantiki-Dalit	BA Programme-GE	Asmita mulak
		vimarsh,istri vimarsh		vimarsh aur hindi
				sahitya/62055636
September	Theory & Tutorial	Bhaktikalin kavita	BA Programme	MIL- Hindi
				B/62051412
		Vimarsh mulak katha sahitya-	BA Programme-GE	Hindi ka vaishwik
		Salam, muhare		paridshraya/
				12055401
October	Theory & Tutorial	Ritakalin kavita	BA Programme	MIL- Hindi
				B/62051412
		Vimarsh Mulak Kavita - dalit Kavita,	BA Programme-GE	Hindi ka vaishwik
		istri kavita		paridshraya/
				12055401
November	Theory & Tutorial	Adhunik Kavita	BA Programme	MIL- Hindi
		the state of the second of the		B/62051412
		Vimarsh mulak anya gadhya vidhaye	BA Programme-GE	Hindi ka vaishwik
				paridshraya/
				12055401





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Name of the faculty member - Dr. Ashutosh Shukla

Department: Hindi. Year: 2017-18

Month	Theory/Tutorial	Topics	Course	Paper Code/Name
January	Theory & Tutorial	Hindi bhasha aur sahitya	BA Programme	MIL- Hindi B/62051412
		Vaishwaikaran, Hindi Bhasha, Sanskriti aur sahitya, Hindi ka prachar prasar	BA Honours- GE	Hindi ka vaishwik paridshraya/ 12055401
February	Theory & Tutorial	Bhaktikalin kavita	BA Programme	MIL- Hindi B/62051412
		Hindi Bhasha ka vishwa sandharbh	BA Honours- GE	Hindi ka vaishwik paridshraya/ 12055401
March	Theory & Tutorial	Ritakalin kavita	BA Programme	MIL- Hindi B/62051412
		Hindi k prasar me cinema, radio ki bhumika	BA Honours- GE	Hindi ka vaishwik paridshraya/ 12055401
April	Theory & Tutorial	Adhunik Kavita	BA Programme	MIL- Hindi B/62051412
		Antarastriya hindi sammelan aur ikkisvi sadi me hindi ki chunatia	BA Honours- GE	Hindi ka vaishwik paridshraya/ 12055401





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Urdu Department





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Name of the Faculty Member: Dr. Shamim Ahmed

Department: Urdu & Persian

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory	Khtoot By <i>Ghalib</i> Ghazals By <i>Meer</i>	B A Programme I year	AECC Urdu A 72142801
August	Theory	Banjara nama by Nazeer Ek khutba by Azad Ghazals By Ghalib	B A Programme I year	AECC Urdu A 72142801
September	Theory	Poos ki Raat by Prem Chand Murgh Aseer ki Nasihat by Naseem Ghazal By Momin	B A Programme I year	AECC Urdu A 72142801
October	Theory	Mureedpoor ka Peer By Pitrus Toba Tek Singh By Manto	B A Programme I year	AECC Urdu A 72142801
November	Theory	Taraqqi Ki Raheein By Hali Grammer	B A Programme I year	AECC Urdu A 72142801





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Name of the Faculty Member: Dr. Shamim Ahmed

Department: Urdu & Persian

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory	Guzra hua Zamana by Sir Syed; Ghazals By Hasrat; Nazm By Josh	B A Programme I year	Core MIL Urdu A 62141115
February	Theory	Murda Badast zinda By Farhat ullah Ghazals By Fani Do Ishq by Faiz	B A Programme I year	Core MIL Urdu A 62141115
March	Theory	Namak Ka Daroogha By Prem Chand Ghazals By Iqbal; Dasna Station by Akhtar ul Iman	B A Programme I year	Core MIL Urdu A 62141115
April	Theory	Sawere jo kal by <i>Pitrus Bukhari</i> Qalandar By Qurrat	B A Programme I year	Core MIL Urdu A 62141115





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Chemistry Department





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Name of the Faculty Member: Shabnam Johry

Department: Chemistry

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory and	Amino acids, Peptides and their classification. α-	Chemistry	CHEMISTRY - C XI: ORGANIC
	Practicals	Amino Acids – Synthesis	Honours	CHEMISTRY IV
			Semester-V	
		1. Acetylation of one of amines and phenols		1. C VI: ORGANIC CHEMISTRY II
			1.Chemistry	
			Honours	2. SEC: PHARMACEUTICAL
		2.Extraction of Caffeine from tea leaves	Semester-III	CHEMISTRY
			2.Chemistry	
			Honours	
			Semester-III	
August	Theory and	Zwitterions, pKa values, isoelectric point and	Chemistry Honours	CHEMISTRY - C XI: ORGANIC
	Practicals	electrophoresis; Study of peptides: determination	Semester-V	CHEMISTRY IV
		of their primary structure-end group analysis.		
		Synthesis of peptides using N-protecting, C-	Chemistry Honours	1.CHEMISTRY - C XI: ORGANIC
		protecting and C-activating groups, Solid-phase synthesis.	Semester-V	CHEMISTRY IV
			2.Chemistry	2.C VI: ORGANIC CHEMISTRY II
		Study of the action of salivary amylase on starch	Honours	
		under optimum conditions. Hydrolysis of esters.	Semester-III	
September	Theory and	Primary, secondary and tertiary structures of	Chemistry Honours	CHEMISTRY - C XI: ORGANIC
	Practicals	proteins, Denaturation of proteins.	Semester-V	CHEMISTRY IV

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		Introduction, classification and characteristics of enzymes. Salient features of active site of enzymes. Mechanism of enzyme action (taking	1.Chemistry Honours Semester-V	1.CHEMISTRY - C XI: ORGANIC CHEMISTRY IV
		chymotrypsin as an example), factors affecting enzyme action, coenzymes and cofactors (NAD,FAD), specificity of enzyme action (including stereospecificity)	2. Chemistry Honours Semester-III	2. SEC: PHARMACEUTICAL CHEMISTRY
		1.Saponification value of the given oil.2.Preparation of Aspirin.		
October	Theory and Practicals	Enzyme inhibitors and their importance. Introduction to oils and fats; common fatty acids present in oils and fats, Hydrogenation of fats and oils, Saponification value, acid value, iodine	Chemistry Honours Semester-V 1. Chemistry	CHEMISTRY - C XI: ORGANIC CHEMISTRY IV
		number. Reversion and rancidity. 1.Preparation of S-Benzylisothiouronium salt of one each of water soluble and water insoluble acids.	Honours Semester-III	1.C VI: ORGANIC CHEMISTRY II





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Name of the Faculty Member: Shabnam Johry

Department: Chemistry

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory and Practicals	Aromatic Hydrocarbons, Alkyl halides 1. Qualitative analysis of unknown organic compounds containing monofunctional groups 2. Qualitative analysis of unknown organic compounds containing simple functional groups	BSc Program (with Chemistry) Semester-II Chemistry Honours Semester-VI	Chemical Energetics, Equilibria & 4 Functional Group Organic Chemistry-I C XIV: ORGANIC CHEMISTRY V
			Chemistry Honours Semester-IV	C IX: ORGANIC CHEMISTRY III
February	Theory and Practicals	Aryl Halides, Alcohols, Diols 1. Qualitative analysis of unknown organic	BSc Program (with Chemistry) Semester-II	Chemical Energetics, Equilibria & 4 Functional Group Organic Chemistry-I
		compounds containing monofunctional groups 2. Qualitative analysis of unknown organic compounds containing simple functional groups	Chemistry Honours Semester-VI	C XIV: ORGANIC CHEMISTRY V
		3. Detection of extra elements.	Chemistry Honours Semester-IV	C IX: ORGANIC CHEMISTRY III
			Chemistry Honours Semester-II	C III: ORGANIC CHEMISTRY I

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March	Theory and	Phenols, Ethers	BSc Program (with	Chemical Energetics, Equilibria & 4
	Practicals	1. Qualitative analysis of unknown organic	Chemistry)	Functional Group Organic
		compounds containing monofunctional groups 2. Qualitative analysis of unknown organic	Semester-II	Chemistry-I
		compounds containing simple functional groups	Chemistry Honours Semester-VI	C XIV: ORGANIC CHEMISTRY V
		3. Detection of extra elements.	Semester vi	C IX: ORGANIC CHEMISTRY III
			Chemistry Honours Semester-IV	
			Chemistry Honours	C III: ORGANIC CHEMISTRY I
			Semester-II	
April			BSc Prog (With	
		Aldehydes and Ketones	Chemistry, Semester II)	
		Qualitative analysis of unknown organic compounds	,	
	Theory and	containing bifunctional groups.	Chemistry Honours Sem-VI	
	Practicals	Qualitative analysis of unknown organic compounds		
		containing simple functional groups.	Chemistry Honours Sem-IV	
		Determination of boiling point of liquid compounds	Chemistry Honours, Sem II	





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Name of the Faculty Member: Dr. Vibha Sharma

Department: Chemistry Year: 2017-2018 Odd Semester

Month	Theory/ Practical	Topics	Course	Paper code/ Name
July - November	Theory	Transition ElementsLanthanides and ActinidesCoordination Chemistry	B.Sc. Prog. with Chemistry Semester V	DSE Chemistry of d-block elements, Quantum Chemistry and Spectroscopy; 42177925
July - November	Practical	 Titrimetric Analysis Acid-Base Titrations Oxidation-Reduction Titrimetry 	B.Sc. Hons. Chemistry Semester I	LAB: Inorganic Chemistry-I: Atomic Structure & Chemical Bonding; 32171101
July - November	Practical	 Iodo / Iodimetric Titrations Complexometric titrations Inorganic preparation 	B.Sc. Hons. Chemistry Semester III	LAB: CC V Inorganic Chemistry II: s- and p-Block Elements; 32171301
July - November	Practical	 Gravimetric Analysis Complex Preparations Colorimtery	B.Sc. Prog. with Chemistry Semester V	LAB: DSE Chemistry of d-block elements, Quantum Chemistry and Spectroscopy; 42177925





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Name of the Faculty Member: Dr. Vibha Sharma

Department: Chemistry Year: 2017-2018 Even Semester

Month	Theory/ Practical	Topics	Course	Paper code/ Name
January - April	Theory	 Unit 1 Coordination Chemistry: Unit 4 Inorganic Reaction Mechanism 	B.Sc. Hons. Chemistry Semester IV	C-VIII Inorganic Chemistry-III: Coordination Chemistry, 32171401
January - April	Theory	Unit I: Theoretical principles and Chemistry involved in qualitative analysis	B.Sc. Hons. Chemistry Semester VI	CC XIII Inorganic Chemistry IV: Organometallic Chemistry, 32171601
January - April	Practical	 Gravimetric Analysis Inorganic reparations Properties of Complexes - Spectrophotometry 	B.Sc. Hons. Chemistry Semester IV	LAB: C-VIII Lab Inorganic Chemistry-III: Coordination Chemistry; 32171401
January - April	Practical	Qualitative Analysis - Salt mixture analysis	B.Sc. Hons. Chemistry Semester VI	LAB: CC XIII Inorganic Chemistry IV: Organometallic Chemistry; 32171601
January - April	Practical	Qualitative Analysis - Salt mixture analysis	B.Sc. Prog. with Chemistry Semester IV	LAB: CC IV Chemistry of s- and p- block elements, States of matter & Chemical Kinetics; 42174404





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Name of the Faculty Member: Dr. Jaspreet Kaur

Department: Chemistry

Year: 2017-2018

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July	Theory	Qualitative and quantitative aspects of analysis	B.Sc (H) IIIyr	DSE: ANALYTICAL METHODS IN CHEMISTRY
	Practical	Paper chromatographic separation		
August	Theory	Optical methods of analysis	B.Sc (H) IIIyr	DSE: ANALYTICAL METHODS IN CHEMISTRY
	Practical	Analysis of soil		
September	Theory	Thermal methods of analysis	B.Sc (H) IIIyr	DSE: ANALYTICAL METHODS IN CHEMISTRY
	Practical	Spectrophotometry		
October	Theory	Electroanalytical methods	B.Sc (H) IIIyr	DSE: ANALYTICAL METHODS IN CHEMISTRY
	Practical	Separation Techniques		

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Name of the Faculty Member: Dr. Jaspreet Kaur

Department: Chemistry

Year: 2017-2018

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name	
January	Theory	Chemical Kinetics: Order and molecularity, rate laws, differential and integrated form of rate expressions	B.Sc (H) IIyr	Conductance & Chemical Kinetics	
	Practical	Determination of conductivity, molar conductivity, degree of dissociation and dissociation constant			
February	Theory	kinetics of complex reactions, Arrhenius equation	B.Sc (H) IIyr	Conductance & Chemical Kinetics	
	Practical	conductometric titrations			
March	Theory	theories of reaction rates, Lindemann mechanism	B.Sc (H) IIyr	Conductance & Chemical Kinetics	
	Practical	kinetics of Acid hydrolysis, Iodide-persulphate reaction, iodine clock reaction			
April	Theory	Catalysis	B.Sc (H) IIyr	Conductance & Chemical Kinetics	
	Practical	kinetics of Saponification of ethyl acetate, determine the degree of hydrolysis and hydrolysis constant			





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Name of the Faculty Member: Dr. Jyotirmoy Maity

Department: Chemistry

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name	
July	Pharmaceutical Chemistry (T,P)	Synthesis and application of medicines	IIC	32173909	
	Cosmetic Chemistry (T,P)	Preparation of cosmetics	IIC/III PS	32173910	
	Organic Chemistry (T)	Reaction intermediates	I PS	NA	
	Green Chemistry (T,P)	Rules and examples of Green Chemistry	IIIC	32177908	
	Environmental Studies (T)	Ecosystem, Biodiversity, Natural Resources, Pollution	I Maths	72182801	
August	Same as above				
September	Same as above				
October	Same as above				





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Name of the Faculty Member: Dr. Jyotirmoy Maity

Department: Chemistry

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Organic Chemistry (T,P)	UV, IR Spectroscopy	III PS	42177926
	Organic Chemistry (T,P)	Heterocyclic Chem	IIC	32171402
	Polymer Chemistry (T,P)	Synthesis and application of polymers	IIIC	32177906
	Environmental Studies (T)	Ecosystem, Biodiversity, Natural Resources, Pollution	I Eng/ Philo/ Sanskrit	72182801
February	Same as above			
March	Same as above			
April	Same as above			





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Physics Department





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Name of the Faculty Member: Sanjay Kumar

Department: Physics

Year: 2017-18

Odd Semester	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
July-Nov	Theory	All topics in the University CBCS, BSc(H) Physics V Sem Syllabus for Astronomy and Astrophysics were covered. Some Additional Points 1. Many additional topics not mentioned in the syllabus were also discussed in the class. Some of these topics were: (i) Transformation between different astronomical coordinate systems (ii) Binary Star systems and determination of their parameters (iii) Equations for internal structure of stars, (iv) Alfven waves 2. Since it was felt that a single good text did not cover all topics, lecture notes were prepared. PDF copies of a total of 16 lecture notes of over 46,000 words were distributed to students.	BSc(H) Physics V Semester	32227506 Astronomy and Astrophysics DSE
July Nov	Tutorial	Tutorials were conducted as problem solving sessions. A total of eleven problem-based assignments on different topics in the syllabus were given to students.	BSc(H) Physics V Semester	32227506 Astronomy and Astrophysics DSE
July -Nov	Laboratory	CBCS BSc(H) Physics I Sem Physics Laboratory Syllabus. Students were given instructions on different experiments. Their work in the laboratory was supervised and their reports were checked.	BSc(H) Physics I Semester	Physics Laboratory (Mechanics)

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Name of the Faculty Member: Sanjay Kumar

Department: Physics

Year: 2017-18

Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
Theory	All topics in the University CBCS Syllabus for Electromagnetic Theory (BSc(H) Physics V Semester) syllabus were discussed The following topics not in the syllabus were also discussed (i) Relativistic Lorentz transformations of Electric and Magnetic Fields and Maxwell's Equations (ii) (ii) Conservation of Angular momentum in induction phenomenon (as discussed in Feynman Vol 2)	BSc(H) Physics V Semester	Electromagnetic Theory
Laboratory	CBCS Technical Drawing Syllabus. Topics covered were (i) Projections of points, straight lines, plane figures and three-dimensional figures (ii) Sections and (iii) Development of Surfaces	BSc(H) Physics III Semester	32223906 Technical Drawing SEC Paper
Laboratory	CBCS BSc(H) IV Sem Modern Physics Laboratory Syllabus. Besides overseeing students' work in the lab and checking their reports, also gave a lecture on the phenomenon of Quantum Tunneling and its role in functioning of Tunnel Diode	BSc(P) IV Semester	Modern Physics Lab
	Practical/ Tutorials Theory Laboratory	Practical/ Tutorials Theory All topics in the University CBCS Syllabus for Electromagnetic Theory (BSc(H) Physics V Semester) syllabus were discussed The following topics not in the syllabus were also discussed (i) Relativistic Lorentz transformations of Electric and Magnetic Fields and Maxwell's Equations (ii) (ii) Conservation of Angular momentum in induction phenomenon (as discussed in Feynman Vol 2) Laboratory CBCS Technical Drawing Syllabus. Topics covered were (i) Projections of points, straight lines, plane figures and three-dimensional figures (ii) Sections and (iii) Development of Surfaces CBCS BSc(H) IV Sem Modern Physics Laboratory Syllabus. Besides overseeing students' work in the lab and checking their reports, also gave a lecture on the phenomenon of Quantum Tunneling and its role in functioning of Tunnel	Practical/ Tutorials Theory All topics in the University CBCS Syllabus for Electromagnetic Theory (BSc(H) Physics V Semester) syllabus were discussed The following topics not in the syllabus were also discussed (i) Relativistic Lorentz transformations of Electric and Magnetic Fields and Maxwell's Equations (ii) (ii) Conservation of Angular momentum in induction phenomenon (as discussed in Feynman Vol 2) Laboratory CBCS Technical Drawing Syllabus. Topics covered were (i) Projections of points, straight lines, plane figures and three-dimensional figures (ii) Sections and (iii) Development of Surfaces BSc(H) Physics III Semester CBCS BSc(H) IV Sem Modern Physics Laboratory Syllabus. Besides overseeing students' work in the lab and checking their reports, also gave a lecture on the phenomenon of Quantum Tunneling and its role in functioning of Tunnel

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Name of the Faculty Member: Abhinav Gupta. Department: Physics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper Name
July	Theory: Mechanics Practicals: MP2 Computational Lab Quantum Mechanics Lab	Fundamentals of Dynamics: Newton's Laws, Variable mass systems, Dynamics of System of particles. Work and Energy: Work Energy Theorem, Conservative and non-conservative forces, Potential Energy. Interpolation: Newton, Laplace and Chebyshev Interpolation. Discretizing Schrodinger Equation. Solution to one-dimensional eigenvalue problems through matrix diagonalization.	BSc (H) Physics	
August	Theory: Mechanics Practicals: MP2 Lab QM Lab	Collisions: Elastic and Inelastic Collisions, CM and Lab frames. Rotational Dynamics: Angular momentum of a particle and system of particles. Torque. Principle of conservation of angular momentum. Fixed axis rotation. Solving first and second order Differential Equations. Time evolution problems through matrix diagonalization. QM Scattering.	BSc (H) Physics	
Septem ber	Theory: Mechanics Practicals: MP2 Lab QM Lab	Gravitation and Central Force Motion: Law of gravitation. Gravitational potential Energy. Motion of a particle under a central force field: Two-body problem. Kepler"s Laws. Oscillations: Differential equation of driven, damped Harmonic Oscilaltor. Kinetic, Potential and Total Mechanical Energy. Transients, resonance and Quality Factor. Generating Special Functions. Legendre Polynomials. Solving three-dimensional eigenvalue problems through matrix diagonalization.	BSc (H) Physics	
October	Theory: Mechanics Practicals: MP2 Lab QM Lab	Non-Inertial Systems: Galilean transformations. Inertial and Non-inertial frames and fictitious forces. Uniformly rotating frame. Centrifugal and Coriolis Forces. Special Theory of Relativity: Michelson-Morley Experiment. Postulates of Special Theory of Relativity. Lorentz Transformations. Simultaneity, Length contraction, Time dilation. Relativistic transformation of velocity, acceleration, frequency and wave number. Mass-energy Equivalence. Relativistic Doppler effect. Relativistic Kinematics. Transformation of Energy and Momentum. Solutions of system of Linear Equations. Solving Eigenvalue Problems using the Shooting Method.	BSc (H) Physics	

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Name of the Faculty Member: Abhinav Gupta. Department: Physics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper Name
January	Theory: Statistical Mechanics Practicals: Statistical Mechanics Lab MP3 Lab	Classical Statistics. Macrostate, Microstate and Phase Space. Entropy and Thermodynamic Probability. Boltzmann Distribution, Partition Function. Applications to Ideal Gas. Two state systems and Negative Temperatures. Thermal equilibrium of a system of hard disks: approach to equilibrium, entropy, phase transitions, Maxwell Distribution. The Dirac Delta Function. Fourier Series.	BSc (H) Physics	
Februar y	Theory: Statistical Mechanics Practicals: Statistical Mechanics Lab MP3 Lab	Bose-Einstein Statistics. Bose-Einstein Distribution, Thermodynamic functions of strongly degenerate Bose gas. Bose Einstein Condensation. Radiation as a Bose Gas. The Lennard Jones Gas. The Verlet Algorithm, conservation of energy. The method of least squares.	BSc (H) Physics	
March	Theory: Statistical Mechanics Practicals: Statistical Mechanics Lab MP3 Lab	Fermi-Dirac Statistics. Fermi-Dirac Distribution. Thermodynamic Functions of a strongly degenerate Fermi Gas. Electrons in a metal. White Dwarf Stars and the Chandrasekhar Limit. Equilibrium Distributions for a Lennard Jones system. The Maxwell Speed Distribution. Partial Differential Equations. The Wave Equation, Heat Conduction Equation, Laplace's Equation.	BSc (H) Physics	
April	Theory: Statistical Mechanics Practicals: Statistical Mechanics Lab MP3 Lab	Theory of Radiation. Properties of Thermal Radiation. Stefan-Boltzmann Law. Wien's Law. Saha's Ionization Potential. Black Body radiation and Planck's Law. Phase transitions in a Lennard Jones system. Fast Fourier Transform.	BSc (H) Physics	

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Name of the Faculty Member: Dr. Annu Malhotra. Department: Physics. Year: 2017-18

Month	Theory/ Practical/	Topics	Course	Paper code/ Name
July	Tutorials Theory	Calculus: Plotting of functions. Approximation: Taylor and binomial series (statements only). First Order Differential. Equations exact and inexact differential equations and Integrating Factor.	B.Sc. (Hons) Physics Semester I	PHYSICS-C I/ MATHEMATICAL PHYSICS-I
August	Theory	Second Order Differential equations: Homogeneous Equations with constant coefficients. Wronskian and general solution. Particular Integral with operator method, method of undetermined coefficients and variation method of parameters. Vector Algebra: Properties of vectors. Scalar product and vector product	B.Sc. (Hons) Physics Semester I	PHYSICS-C I/ MATHEMATICAL PHYSICS-I
September	Theory	Scalar triple product and their interpretation in terms of area and volume respectively. Scalar and Vector fields. Vector Calculus: Vector Differentiation: Directional derivatives and normal derivative. Gradient of a scalar field and its geometrical interpretation. Divergence and curl of a vector field. Del and Laplacian operators. Vector identities. Vector Integration: Ordinary Integrals of Vectors. Multiple integrals, Jacobian. Notion of infinitesimal line, surface and volume elements	B.Sc. (Hons) Physics Semester I	PHYSICS-C I/ MATHEMATICAL PHYSICS-I
October/ November	Theory	Line, surface and volume integrals of Vector fields. Flux of a vector field. Gauss' divergence theorem, Green's and Stokes Theorems and their verification (no rigorous proofs). Orthogonal Curvilinear Coordinates: Orthogonal Curvilinear Coordinates. Derivation of Gradient, Divergence, Curl and Laplacian in Cartesian, Spherical and Cylindrical Coordinate Systems.	B.Sc. (Hons) Physics Semester I	PHYSICS-C I/ MATHEMATICAL PHYSICS-I





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Name of the Faculty Member: Dr. Annu Malhotra. Department: Physics. Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory	Complex Analysis: Brief Revision of Complex Numbers and their Graphical Representation. Euler's formula, De Moivre's theorem, Roots of Complex Numbers. Functions of Complex Variables. Analyticity and Cauchy-Riemann Conditions. Examples of analytic functions. Singular functions: poles and branch points, order of singularity, branch cuts.	B.Sc. (Hons) Physics Semester IV	PHYSICS-VIII/ MATHEMATICAL PHYSICS-III
February	Theory	Integration of a function of a complex variable. Cauchy's Inequality. Cauchy's Integral formula. Simply and multiply connected region. Laurent and Taylor's expansion. Residues and Residue Theorem. Application in solving Definite Integrals.	B.Sc. (Hons) Physics Semester IV	PHYSICS-VIII/ MATHEMATICAL PHYSICS-III
March	Theory	Integrals Transforms: 25 Fourier Transforms: Fourier Integral theorem. Fourier Transform. Examples. Fourier transform of trigonometric, Gaussian, finite wave train and other functions. Representation of Dirac delta function as a Fourier Integral. Fourier transform of derivatives, Inverse Fourier transform, Convolution theorem. Properties of Fourier transforms (translation, change of scale, complex conjugation, etc.).	B.Sc. (Hons) Physics Semester IV	PHYSICS-VIII/ MATHEMATICAL PHYSICS-III
April	Theory	One dimensional Wave Equations, Dirac delta function, definition and properties. Laplace Transforms: Laplace Transform (LT) of Elementary functions. Properties of LTs: Change of Scale Theorem, Shifting Theorem. LTs of 1st and 2nd order Derivatives and Integrals of Functions, Derivatives and Integrals of LTs. LT of Unit Step function, Dirac Delta function, Periodic Functions. Convolution Theorem. Inverse LT. Application of Laplace Transforms to 2nd order Differential Equations: Coupled differential equations of 1st order. Solution of heat flow along semi-infinite bar using Laplace transform.	B.Sc. (Hons) Physics Semester IV	PHYSICS-VIII/ MATHEMATICAL PHYSICS-III

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Name of Faculty Member: Dr. Rekha Department: Physics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper Name
July- August	Theory	Thermodynamic Description of system: Zeroth Law of thermodynamics and temperature. First law and internal energy, conversion of heat into work, Various Thermodynamical Processes, Applications of First Law: General Relation between CP and CV, Work Done during Isothermal and Adiabatic Processes, Compressibility and Expansion Coefficient, Reversible and irreversible processes, Second law, Entropy.	B.Sc. Physical Science Sem-III	Physics CC-3A Thermal Physics and statistical mechanics
September	Theory	Carnot's cycle & theorem, Entropy changes in reversible and irreversible processes, Entropy-temperature diagrams, Third law of thermodynamics, Unattainability of absolute zero. Unit-2 Thermodynamic Potentials: Enthalpy, Gibbs, Helmholtz and Internal Energy functions, Maxwell's relations and applications - Joule-Thompson Effect, Clausius- Clapeyron Equation, Expression for (CP – CV), CP/CV, TdS equations.	B.Sc. Physical Science Sem-III	Physics CC-3A Thermal Physics and statistical mechanics
October	Theory	Unit-3 Kinetic Theory of Gases: Derivation of Maxwell's law of distribution of velocities and its experimental verification, Mean free path (Zeroth Order), Transport Phenomena: viscosity, Conduction and Diffusion (for vertical case), Law of equipartition of energy (no derivation) and its applications to specific heat of gases; mono-atomic and diatomic gases. Unit-4 Theory of Radiation: Blackbody radiation, Spectral distribution, Concept of Energy Density, Derivation of Planck's law, Deduction of Wien's distribution law, Rayleigh- Jeans Law, Stefan Boltzmann Law and Wien's displacement law from Planck's law.	B.Sc. Physical Science Sem-III	Physics CC-3A Thermal Physics and statistical mechanics
November	Theory	Unit-5 Statistical Mechanics: Phase space, Macrostate and Microstate, Entropy and	B.Sc. Physical	Physics CC-3A

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		Thermodynamic probability, Maxwell-Boltzmann law, distribution of velocity, Quantum statistics, Fermi-Dirac distribution law, Bose-Einstein distribution law, comparison of three statistics.	Science Sem-III	Thermal Physics and statistical mechanics
July- August	Theory	Introduction: Drafting Instruments and their uses. lettering: construction and uses of various scales: dimensioning as per I.S.I. 696-1972. Engineering Curves: Parabola: hyperbola: ellipse: cycloids, involute: spiral: helix and loci of points of simple moving mechanism.2D geometrical construction. Representation of 3D objects. Principles of projections.	B.Sc. Physics Hons. And B.Sc. Prog. Sem-III	Physics SEC Technical Drawing
September	Theory	Projections: Straight lines, planes and solids. Development of surfaces of right and oblique solids. Section of solids.	B.Sc. Physics Hons. And B.Sc. Prog. Sem-III	Physics SEC Technical Drawing
October	Theory	Object Projections: Orthographic projection. Interpenetration and intersection of solids. Isometric and oblique parallel projection of solids. CAD Drawing: Introduction to CAD and Auto CAD, precision drawing and drawing aids, Geometric shapes, Demonstrating CAD- specific skills (graphical user interface. Create, retrieve, edit, and use symbol libraries. Use inquiry commands to extract drawing data). Control entity properties.	B.Sc. Physics Hons. And B.Sc. Prog. Sem-III	Physics SEC Technical Drawing
November	Theory	Demonstrating basic skills to produce 2-D and 3-Ddrawings. 3D modeling with Auto CAD (surfaces and solids), 3D modelling with sketch up, annotating in Auto CAD with text and hatching, layers, templates and design center, advanced plotting (layouts, viewports), office standards, dimensioning,	B.Sc. Physics Hons. And	Physics SEC Technical Drawing

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		internet and collaboration, Blocks, Drafting symbols, attributes, extracting data. Basic printing, editing tools, Plot/Print drawing to appropriate scale.	B.Sc. Prog. Sem-III	
July- November	Practical	Practical based on drawing 2D, 3D curves, and orthographic projections using manual drafter and AutoCAD software.	B.Sc. Physics Hons. And B.Sc. Prog. Sem-III	Physics SEC Practical Technical Drawing
July- November	Practical	 Measurements of length (or diameter) using vernier caliper, screw gauge and travelling microscope. To determine the Height of a Building using a Sextant. To determine the Moment of Inertia of a Flywheel. To determine the Modulus of Rigidity of a Wire by Maxwell's needle. To determine the Elastic Constants of a Wire by Searle's method. To determine g by Bar Pendulum. To determine g by Kater's Pendulum. To determine g and velocity for a freely falling body using Digital Timing Technique To study the Motion of a Spring and calculate (a) Spring Constant (b) Value of g 	B.Sc. Prog. Sem-I	Practical - CC-1A: Mechanics
July- November	Practical	 To determine value of Boltzmann constant using V-I characteristic of PN diode. To determine value of Planck's constant using LEDs of at least 4 different colours. To determine the wavelength of H-alpha emission line of Hydrogen atom. To determine the absorption lines in the rotational spectrum of Iodine vapour. To study the diffraction patterns of single and double slits using laser source. Photo-electric effect: photo current versus intensity and wavelength of light, maximum energy of photo-electrons versus frequency of light. To determine the value of e/m by magnetic focusing. 	B.Sc Physical Science Sem-V	Practicals- DSE-1 Lab: Elements of Modern Physics





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Name of Faculty Member: Dr. Rekha Department: Physics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper Name
January	Theory	Superposition of Two Collinear Harmonic oscillations: Simple harmonic motion (SHM). Linearity and Superposition Principle. (1) Oscillations having equal frequencies and (2) Oscillations having different frequencies (Beats). Superposition of Two Perpendicular Harmonic Oscillations: Graphical and Analytical Methods. Lissajous Figures (1:1 and 1:2) and their uses. Waves Motion- General: Transverse waves on a string. Travelling and standing waves on a string. Normal Modes of a string. Group velocity, Phase velocity. Plane waves. Spherical waves, Wave intensity.	B.Sc. Physical Science Sem-IV	Physics CC-4A Waves and Optics
February	Theory	Sound: Sound waves, production and properties. Intensity and loudness of sound. Decibels. Intensity levels. musical notes. musical scale. Acoustics of buildings (General idea). Wave Optics: Electromagnetic nature of light. Definition and Properties of wave front. Huygens Principle. Interference: Interference: Division of amplitude and division of wavefront. Young's Double Slit experiment. Lloyd's Mirror & Fresnel's Biprism. Phase change on reflection: Stokes' treatment.	B.Sc. Physical Science Sem-IV	Physics CC-4A Waves and Optics
March	Theory			Physics CC-4A Waves and Optics
April	Theory	Diffraction grating. Fresnel Diffraction: Half-period zones. Zone plate. Fresnel Diffraction pattern of a straight edge, a slit and a wire using half-period zone analysis.	B.Sc. Physical	Physics CC-4A

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		Polarization: Transverse nature of light waves. Plane polarized light – production and analysis. Circular and elliptical polarization.	Science Sem-IV	Waves and Optics
January	Theory	Introduction: Drafting Instruments and their uses. lettering: construction and uses of various scales: dimensioning as per I.S.I. 696-1972. Engineering Curves: Parabola: hyperbola: ellipse: cycloids, involute: spiral: helix and loci of points of simple moving mechanism. 2D geometrical construction. Representation of 3D objects. Principles of projections.	B.Sc. Physics Hons Sem-IV	Physics SEC Technica 1 Drawing
February	Theory	Projections: Straight lines, planes and solids. Development of surfaces of right and oblique solids. Section of solids.	B.Sc. Physics Hons Sem-IV	Physics SEC Technica 1 Drawing
March	Theory	Object Projections: Orthographic projection. Interpenetration and intersection of solids. Isometric and oblique parallel projection of solids. CAD Drawing: Introduction to CAD and Auto CAD, precision drawing and drawing aids, Geometric shapes, Demonstrating CAD- specific skills (graphical user interface. Create, retrieve, edit, and use symbol libraries. Use inquiry commands to extract drawing data). Control entity properties.	B.Sc. Physics Hons Sem-IV	Physics SEC Technica 1 Drawing
April	Theory	Demonstrating basic skills to produce 2-D and 3-Ddrawings. 3D modeling with Auto CAD (surfaces and solids), 3D modelling with sketch up, annotating in Auto CAD with text and hatching, layers, templates and design center, advanced plotting (layouts, viewports), office standards, dimensioning, internet and collaboration, Blocks, Drafting symbols, attributes, extracting data. Basic printing, editing tools, Plot/Print drawing to appropriate scale.	B.Sc. Physics Hons Sem-IV	Physics SEC Technica 1 Drawing
January- April	Practical	Practicals based on drawing 2D, 3D curves, and orthographic projections using manual drafter and AutoCAD software.	B.Sc. Physics Hons Sem-IV	Physics SEC Practical Technica 1 Drawing

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January-	Practical	1. To verify the law of Malus for plane polarized light.	B.Sc.	Physics
April		2. To determine the specific rotation of sugar solution using Polarimeter.	Physics	Practical
		3. To determine refractive index of liquid using hollow prism.	Hons.	-C XIII
		4. To determine the wavelength and velocity of ultrasonic waves in a liquid (Kerosene	Sem-VI	Lab
		Oil, Xylene, etc.) by studying the diffraction through ultrasonic grating.		
		5. To determine the refractive index of liquid by total internal reflection using		
		Wollaston's air-film.		
		6. To verify the Stefan's law of radiation and to determine Stefan's constant.		
		7. To determine Boltzmann constant using V-I characteristics of PN junction diode.		
January-	Practical	1. To investigate the motion of coupled oscillators	B.Sc	Physics
April		2. To determine the Frequency of an Electrically Maintained Tuning Fork by Melde's Experiment and	Physical	Lab-CC-
		to verify $\lambda^2 - T$ Law.	Science	4A:
		3. To study Lissajous Figures	Sem-IV	Waves
		4. Familiarization with Schuster's focussing; determination of angle of prism.		and
		5. To determine the Refractive Index of the Material of given Prism using Na Light.	To the part of s	Optics
		6. To determine Dispersive Power of the Material of a given Prism using Hg Light.		
		7. To determine the value of Cauchy Constants of a material of a prism.		
		8. To determine wavelength of sodium light using Newton's Rings.		
		9. To determine wavelength of Sodium light using plane diffraction Grating.		





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Name of Faculty member: Shruti

Department: Physics

Year: 2017-18

Month	Theory/ Practicals/ Tutorials	Topics	Course	Paper Code/ Name
July	Theory & Practical	Curve fitting, Least square fit,	B.Sc(H) II Phys	PHYSICS-C V: MATHEMATICA L PHYSICS-II
July	Theory	Vectors, Fundamentals of Dynamics	B.Sc(P) I	Mechanics
July	Practical	Sextant, Motion of Spring and calculate (a) Spring constant, (b) Moment of Inertia of a Flywheel, Maxwell's needle, Searle's method, Bar Pendulum, Kater's Pendulum	B.Sc(P) I	Mechanics: Lab
July	Practical	Callender and Barne's, Searle's Apparatus, y Lee and Charlton's discmethod. Coefficient of Resistance by Platinum Resistance Thermometer, RTD, fThermo-Emf of a Thermocouple w	B.Sc(P) II Thermallab	Thermal: Lab
August	Theory & Practical	Solution of Linear system of equations by Gauss elimination method and Gauss Seidal method. Diagonalisation of matrices, Inverseof a matrix,	B.Sc(H) Phys	PHYSICS-C V: MATHEMA TICAL PHYSICS-II

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August	Theory	Work and Energy, Rotational Dynamics,	B.Sc(P) I	Mechanics
August	Practical	Sextant, Motion of Spring and calculate (a) Spring constant, (b) Moment of Inertia of a Flywheel, Maxwell's needle, Searle's method, Bar Pendulum, Kater's Pendulum	B.Sc(P) I	Mechanics:Lab
August	Practical	Callender and Barne's, Searle's Apparatus, y Lee and Charlton's discmethod. Coefficient of Resistance by Platinum Resistance Thermometer, RTD, fThermo-Emf of a Thermocouple w	B.Sc(P) II Thermallab	Thermal:Lab
Septemb er	Theory & Practical	First order Differential equation Euler, modified Euler method	B.Sc(H) Phys	PHYSICS-C V: MATHEMA TICAL PHYSICS-II
Septemb er	Theory	Elasticity, Gravitation, Central force Motion	B.Sc(P) I	Mechanics
Septemb	Practical	Sextant, Motion of Spring and calculate (a) Spring constant, (b) Moment of Inertia of a Flywheel, Maxwell's needle, Searle's method, Bar Pendulum, Kater's Pendulum	B.Sc(P) I	Mechanics:Lab





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Septemb er	Practical	Callender and Barne's, Searle's Apparatus, y Lee and Charlton's discmethod. Coefficient of Resistance by Platinum Resistance Thermometer, RTD, fThermo-Emf of a Thermocouple w	B.Sc(P) II Thermallab	Thermal:Lab
October	Theory & Practical	RungeKutta (RK) second and Fourth order methods Second order differential equation Fixeddifference method	B.Sc(H) Phys	PHYSICS-C V: MATHEMA TICAL PHYSICS-II
October	Theory	Oscillations: Review of SHM, Special Thenyof Relativity	B.Sc(P) I	Mechanics
October	Practical	Sextant, Motion of Spring and calculate (a) Spring constant, (b) Moment of Inertia of a Flywheel, Maxwell's needle, Searle's method, Bar Pendulum, Kater's Pendulum	B.Sc(P) I	Mechanics:Lab
October	Practical	Callender and Barne's,Searle's Apparatus,y Lee and Charlton's discmethod.Coefficient of Resistance byPlatinum Resistance Thermometer,RTD,fThermo-Emf of aThermocouple w	B.Sc(P) II Thermallab	Thermal:Lab

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Name of Faculty member: Shruti

Department: Physics

Year: 2017-18

Month	Theory/ Practicals/ Tutorials	Topics	Course	Paper Code/Name
January	Theory	Electric Field and Electric Potential	B.Sc(P) I	Electricity and Magnetism
January	Practical	Carey Foster's Bridge, Anderson's bridge. Verify the Thevenin Theorems, Maximum power transfer theorems, response curve of a Series LCR circuit, charge sensitivity, currents ensitivity & CDR of Ballistic Galvanometer	B.Sc(H) I	Electricity and Magnetism :Lab
January	Practical	Planck's constant using LEDs,e/m by (a) Magnetic focusing or (b) Bar magnet. Tunneling effect, wavelengthof laser source using diffraction of single slit and Double slit,Photo- electric effect:wavelength of H-alpha emission line of Hydrogen atom,absorption lines in the rotational spectrum of Iodine vapour.	B.Sc(H) II	PHYSICS-C IX: ELEMENTS OF MODERN PHYSICS:Lab
February	Theory	Dielectric Properties of Matter	B.Sc(P) I	Electricity and Magnetism





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February	Practical	Carey Foster's Bridge, Anderson's bridge. Verify the Thevenin Theorems, Maximum power transfer theorems, response curve of a Series LCR circuit, charge sensitivity, currents ensitivity & CDR of Ballistic Galvanometer	B.Sc(H) I	Electricity and Magnetism :Lab
February	Practical	Planck's constant using LEDs,e/m by (a) Magnetic focusing or (b) Bar magnet. Tunneling effect, wavelengthof laser source using diffraction of single slit and Double slit,Photo- electric effect:wavelength of H-alpha emission line of Hydrogen atom,absorption lines in the rotational spectrum of Iodine vapour.	B.Sc(H) II	PHYSICS-C IX: ELEMENTS OF MODERN PHYSICS:Lab
March	Theory	Magnetic Field, Magnetic Properties of Matter	B.Sc(P) I	Electricity and Magnetism
March	Practical	Carey Foster's Bridge, Anderson's bridge. Verify the Thevenin Theorems, Maximum power transfer theorems, response curve of a Series LCR circuit, charge sensitivity, current sensitivity & CDR of Ballistic Galvanometer	B.Sc(H) I	Electricity and Magnetism :Lab

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March	Practical	Planck's constant using LEDs,e/m by (a) Magnetic focusing or (b) Bar magnet. Tunneling effect, wavelengthof laser source using diffraction of single slit and Double slit,Photo- electric effect:wavelength of H-alpha emission line of Hydrogen atom,absorption lines in the rotational spectrum of Iodine vapour.	B.Sc(H) II	PHYSICS-C IX: ELEMENTS OF MODERN PHYSICS:Lab
April	Theory	Electromagnetic Induction, Electromagnetic Theory	B.Sc(P) I	Electricity and Magnetism
April	Practical	Carey Foster's Bridge, Anderson's bridge. Verify the Thevenin Theorems, Maximum power transfer theorems, response curve of a Series LCR circuit, charge sensitivity, currents ensitivity & CDR of Ballistic Galvanometer	B.Sc(H) I	Electricity and Magnetism :Lab
April	Practical	Planck's constant using LEDs,e/m by (a) Magnetic focusing or (b) Bar magnet. Tunneling effect, wavelengthof laser source using diffraction of single slit and Double slit,Photo- electric effect:wavelength of H-alpha emission line of Hydrogen atom,absorption lines in the rotational spectrum of Iodine vapour.	B.Sc(H) II	PHYSICS-C IX: ELEMENTS OF MODERN PHYSICS:Lab





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Mathematics Department

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Name of Faculty Member: Nandita Narain

Department: Maths

Year: 2017-18

Month	Course	Paper Code/Name	Theory Covered	Tutorials
July 20 th - 31st	BSc(H) Maths Sem3	Group Theory 1	Sets, Relations, Functions, Operations, Semigroups, Groups, Hereditary properties, Subgroups, Examples, R, C, Integers modulo n,	1: Uniqueness of Identity, inverse, shoes and socs prop, cancellation laws, invertible elements of a semigroup from a group etc Operation such as a*b = a+b+ab
August			Functions from a non-empty set to a Group/ semigroup under pointwise operation and applications such as R^2, R^n, R^N. Real valued Functions on [a,b], Functions from a non-empty set to itself under composite. Permutation Groups, S3, Quarternions, Isometries of R3, Translations, Rotations, Groups of Symmetry for line segment, square, triangle, etc Dn Subgroups, 3step, 2step, 1 step criteria, closure criteria for finite subset, Union and Intersection of subgroups	2. Conditions under which semigroups are groups3. Groups of order 4, exercises on groups of symmetry from Gallian
September			HKsubgroup iff HK=KH, Centraliser of element, subset, subgroup, Normaliser of subset, subgroup, Z(G), Subgroup generated by non-empty set, Cyclic Subgroup <a>> , Every Subgroup of Cyclic Group is cyclic, Order of element, every element of finite group is of finite order, a^n=e => o(a) n, order of conjugate, o(ab)=o(ba), o <a> = o(a), Lagrange's Thm for cyclic groups and converse, Generators of Cyclic Groups, No of elements of order m, Properties of Left and Right Cosets, Partition Theorem, Lagrange's Theorem, a^o(G) =e, Fermat's Little Theorem, 1-1 corresp between Left and Right Cosets, Index of	4. Exercises on Subgroups, Cyclic groups, Lagrange's Theorem from Gallian

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	Subgroup in Group, Groups with Non Trivial Subgroups, Prime Order=> No NTS=> Cyclic. Infinite=> NTS. Finite, non-prime=> cyclic. Normal subgroups, Characterisations of Normality, Subgroups of Index 2 are normal, Examples from S3, D4, Q8, Quotient Group, Indices and Order in Quotient Group,	
October	Intersection and Product of Normal Subgroups, Homomorphisms, Examples including limits of sequences, Basic properties such as f(e)=e', f(a^-1)=f(a)^-1, Homomorphic Image of subgroup and normal subgroup, preservation of abelian, cyclic, o(f(a)) o(a), Kernel, Homom is 1-1 iff K={e}, Isomorphism, Natural homomorphism, First Isomorphism Theorem and Converse, Second Isomorphism Theorem, G/N~G/M/N/M, G/N~G'/N', 1-1 correspondence between normal subgroups of G' and those of G containing K. "Isomorphic to" as an equivalence relation, Abstract Groups, Infinite Cyclic Groups isomorphic to Z, Finite cyclic groups to Zn. Examples of isomorphic and non-isomorphic groups. Permutations of non-empty set X, X~Y => Sx~SY	5. Exercises from Normal Subgroups, Homomorphisms and Isomorphisms from Gallian
November	Cayley's Theorem and its extension to G/H, Sn, Cycles in Sn, Order of a cycle, Disjoint cycles commute, product of disjoint cycles is not a cycle, order of product of disjoint cycles, every cycle is product of transposition, Disjoint Permutations, Decomposition Theorem, Order of Permutation, Permutation as product of transpositions. Inversion and Parity of a permutation, Parity Lemma Parity of product is congruent to sum of parities mod 2, Even and Odd permutations defined through parity, Parity of a transposition, Permutation is even iff it is a product of even number of transposition, "Always even — always odd" theorem. Orbits and Stabilisers, Orbit-Stabiliser Theorem, Direct Products	6. Exercises on Permutation Groups and Direct Products from Gallian

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Name of Faculty Member: Nandita Narain

Department: Maths

Year: 2017-18

Month	Course	Paper Code/Na me	Theory	Tutorials
January	BSc(H) Maths Sem 2	Real Analysis 1	Relations, Functions Operations, Groups, Assignment 1 Rings, Fields, Intro to R Defn of N, PMI SPMI, Order Properties Order Properties & Denseness of R Indices nth Root and Boundedness Greatest and Least elements and examples Sup and Inf, uniqueness, ge=>sup Examples, CPR APR and applications WOP, Greatest Int Function Q is dense in R Root 2 irrational, Q' is dense in R Proof of Existence of Root 2 Incompleteness of Q Modulus and properties Intro to Sequences, Cgnce Uniqueness of Limit, Examples	 Uniqueness of Identity etc a.0=0 and a.(-b)=-(a.b) Monotonicity Root p irrational etc Modulus
February			Some Simple Results, Mod Result	6. PMI ⇔ SPMI⇔ WOP





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	Odd-Even Subs, Tail Thm Cgt => bdd, Cgt non null sequences Algebra of Limits (Sum, Scalar Multiple, Product, Quotient), Applications, Converse of AOL not true, Bdd x null = null Order Preservation by Limits, Sandwich Theorem, Applications, r^n, n^1/n, etc, Divergence, Necessary condns, Simple Results (odd and even subsequences, Tail Result, Domination Thm), Algebra of Divergence and Indeterminate Forms, Monotonic Sequences, MCT, MDT and Applications, Defn of e, Inductively Defined Sequences, Consecutive Ratio Theorem and applications, Sequence of Arithmetic Means, Summary of Exponential and Log Functions and defn of a^x for a>0 and real x. Sequence of Geometric Means, Nth Root Test and applications.	 7. Equivalent defns of Convergence 8. Root Result, Max <an,bn> etc</an,bn> 9. Inductively Defined Sequences
March	Topological aspects of R, Nbds, Interior, Open and Closed sets, Examples and Results for Union and Intersection, Limit Points and Properties of Derived Sets, Bolzano Weierstrass Theorem for Sets, Closure, Cluster Points of Sequences, Subsequences, Criterion for non-convergence to I and non -divergence, Monotone subsequence Theorem, Bolzano Weierstrass Thm for Sequences, Cauchy Sequences, Convergent => Cauchy, Cauchy => bounded, Algebra of Cauchy Sequences, Cauchy => Convergent, Infinite Series, Sequence of Partial Sums, Telescoping Series, Geometric Series, Algebra of Convergent Series	10. Assignments on Sandwich Theorem11. Cauchy Sequences and Subsequences12. Discussion of Test Papers
April	Necessary Condition for Convergence, Cauchy General Principal of Convergence, Series of Non Negative Terms, Basic Comparison Test, Limit Comparison Test, Cauchy's nth Root Test, Ratio Test, Integral Test, Alternating Series, Absolute Convergence, Limit Superior and Inferior. Epsilon Characterisation, Mn Characterisation, Cluster Points Characterisation, Characterisation of Intervals and Nested Intervals Property.	13. Series 14. Limit Superior and Inferior

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Name of the Faculty Member: Dr. Sonia Davar. Department: Mathematics. Year: 2017-18

Month	Th/ Prac	Topics	Course	Paper Name
July	Theory	Recap, Concavity and Points of Inflection, Limits involving infinity, L Hospital's rule & Asymptotes	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
		Recap, functions and their graphs	B.Sc. Programme (Sem I)	Calculus and Matrices
	Practical	Plotting the graphs of simple functions	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
August	Theory	Sketching of polynomial, irrational and rational functions, polar coordinates & sketching of polar curves	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
		Successive Differentiation, Sequences	B.Sc. Programme (Sem I)	Calculus and Matrices
	Practical	Plotting the graphs of polynomials of degree 4 & 5 and their derivatives, sketching parametric curves, tracing of conics	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
September	Theory	Parametric curves, reduction formula, volume of solid of revolution	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
		Applications to Mathematical Modelling, Polynomial Approximations of functions	B.Sc. Programme (Sem I)	Calculus and Matrices
	Practical	Obtaining surface of revolution of curves, graph of hyperbolic functions, computation of limits, differentiation, integration & sketching of vector valued functions	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
October	Theory	Volume of solid of revolution, arc length, surface area of solid of revolution & optimisation	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus
		Polynomial approximation of functions, functions of several variables and partial derivatives	B.Sc. Programme (Sem I)	Calculus and Matrices
	Practical	Complex numbers and their representation, operations like addition, multiplication, division, modulus, graphical representation, finding numbers between two real numbers, matrix operations and solving a system of equations	B.Sc. (Hons.) Mathematics (Sem I)	C1: Calculus

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Name of the Faculty Member: Sonali Batra

Department: Mathematics

Year: 2017-18 (ODD SEMESTER)

Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
Theory & Tutorials	Basic Principles, Interest Rates	B.sc (H) III Mathematics	Mathematical Finance- 32357504
Theory & Tutorials	Net Present Value and Internal rate of return, Bonds – Prices, yields durations and convexity, immunization	B.sc (H) III Mathematics	Mathematical Finance- 32357504
Theory & Tutorials	Asset return, Short Selling, Portfolio Mean variance theory, Markowitz Model, two fund theorem and one fund theorem, Capital Mkt line and Security mkt line, Capital asset pricing model (CAPM), Beta of Stocks, Sharpe index, Jensen's index,	B.sc (H) III Mathematics	Mathematical Finance- 32357504
Theory & Tutorials	Derivatives- Futures, Forwards, options, Swaps. Lognormal Distribution for Stock prices, Binomial tree model	B.sc (H) Mathematics	Mathematical Finance- 32357504
	Tutorials Theory & Tutorials Theory & Tutorials Theory & Tutorials	Theory & Tutorials Theory & Tutorials Net Present Value and Internal rate of return, Bonds — Prices, yields durations and convexity, immunization Theory & Tutorials Asset return, Short Selling, Portfolio Mean variance theory, Markowitz Model, two fund theorem and one fund theorem, Capital Mkt line and Security mkt line, Capital asset pricing model (CAPM), Beta of Stocks, Sharpe index, Jensen's index, Theory & Tutorials Derivatives- Futures, Forwards, options, Swaps. Lognormal Distribution for Stock prices, Binomial tree	Theory & Tutorials Theory & Tutorials Basic Principles, Interest Rates Theory & Tutorials Net Present Value and Internal rate of return, Bonds — Prices, yields durations and convexity, immunization B.sc (H) III Mathematics Theory & Tutorials Asset return, Short Selling, Portfolio Mean variance theory, Markowitz Model, two fund theorem and one fund theorem, Capital Mkt line and Security mkt line, Capital asset pricing model (CAPM), Beta of Stocks, Sharpe index, Jensen's index, Theory & Tutorials Derivatives- Futures, Forwards, options, Swaps. Lognormal Distribution for Stock prices, Binomial tree B.sc (H) III Mathematics B.sc (H) III Mathematics

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Name of the Faculty Member: Sonali Batra

Department: Mathematics

Year: 2017-18 (EVEN SEMESTER)

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January	Theory & Tutorials	Sample space, Probability Axioms, Random variables, cdf, momemts, mgf, characteristic functions	III B Sc. Prgrm	Probability and Statistics- 32357607
February	Theory & Tutorials	Discrete (uniform, binomial, Poisson, geometric, negative binomial) and continuous (uniform, Normal, Exponential, Gamma) distributions	III B Sc. Prgrm	Probability and Statistics- 32357607
March	Theory & Tutorials	Joint cumulative Distribution Function, joint pdf, Marginal and conditional Distributions, expectation of function of two RVs, condition mean, independent Random Variables, Covariance and Correlation coefficient	III B Sc. Prgrm	Probability and Statistics- 32357607
April	Theory & Tutorials	Linear regression, Rank correlation, Chebyshev's inequality, Weak and Strong law of large numbers, Central Limit Theorem and IIDs with finite variance	III B Sc. Prgrm	Probability and Statistics- 32357607





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Name of the Faculty Member: Dr. Radha Mohan

Department: Mathematics

Year: 2017-18

Month	Theory/	Topics	Course	Paper code/ Name
July				
Week 3	Automorphism, Iner Automorphism, Automorphism groups, Automorphism groups of cyclic groups	Automorphism	B.Sc. Mathematics	32351502
Week 4	Characteristic subgrouos, Commuttator subgrouo and properties, Applications of factor subgroups to Automorphism groups	Characteristic subgroups and Commutator subgroups.		
August				
Week 1	External direct products and its properties, the groups U(n) as an external direct product	External Direct product if groups.		
Week 2	Internal Direct products	Internal Direct Product if groups		
Week 3	Statement of Fundamental Theorem of finite abelian groups, the isomorphism class of finite abelian groups	The Fundamental Theorem of Finite abelian groups		
Week 4	Group actions	Group actions		
September				
Week 1	Permutation representations of group actions, Stabilizers and kernels of group actions	Group actions		

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Week 2	Groups acting on themselves by left multiplication and consequences	The action of left multiplication	B.Sc. Mathematics	32351502
Week 3	Conjugacy classes in S_n.	Conjugacy classes		
Week 4	Conjugacy classes, class equation and p- groups.	Conjugacy classes		
October				
Week 1	State the three Sylow theorems and applications	Sylow Theorems		
Week 2	Application of Sylow Theorems	Sylow Theorems		
Week 3	Finite simple groups, Non-simplicity tests, Generalized Cayley's Theorems	Finite Grouos		
Week 4	Index Theorem, Embedding Theorem and Applications, Simplicity of A_5.	Finite grouos		

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Name of the Faculty Member: Dr. Radha Mohan

Department: Mathematics

Year: 2017-18

Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
January			B. Sc. Mathematics	32351602
Week 1	Polynomial Rings over commutative rings, Division Algorithm and consequences, Principal Ideal Throreem	Polynomial Rings		
Week 2	Factorization of polynomials, Reducibility tests, Irreducibility tests	Polynomial Rings		
Week 3	Eisenstein's criterion, Unique factorization in Z[x].	Polynomial Rings	B. Sc. Mathematics	32351602
Week 4	Divisibility in integral domains, irreducibles and primes	Divisibility		
February				
Week 1	Unique Factorization Domains, Euclidean domains	Divisibility	1	
Week 2	Dual spaces, double dual, Dual basis, Transpose of a linear transformation and its matrix, annihilators	Dual space of a vector spaces		
Week 3	Eigenvalues, eigenvectors, Eigenspaces and characteristic polynomial of a linear transformation	Diagonalizability		





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Week 4	Digonalizablilty, Invariant subspaces and Cayley-Hamilton Theorem, Minimal Polynomial of a linear operator.	Diagonalizability and Minimal polynomial.		
March				
Week1	Inner product spaces and norms	Inner Product spaces		
Week 2	Orthogonal basis, Gram-Schmidt orthogonalization	Orthogonality		
Week 3	Orthogonal completeness, Bessel's Inequality	Orthogonality	B. Sc. Mathematics	32351602
April				
Week 1	Adjoint of a linear operator and properties, Least squares approximation, Minimal solutions to systems of linear equations	Adjoint of a linear operator		
Week 2	Normal and self-adjoint operators	Normal and self- adjoint operators		
Week 3	Unitary and orthogonal operators	Unitary and orthogonal operators		

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Name of the Faculty Member: Kashif Ahmed. Department: Mathematics, Year: 2017-18

Month	Theory/Practical	Topics	Course	Paper Name
	Theory	First order ordinary differential equations: Basic concepts and ideas, First order exact differential equation, Integrating factors and rules to find integrating factors. Linear equations and Bernoulli equations, Orthogonal trajectories and oblique trajectories.	Generic Elective-II	32355301/ Differential Equations
July	Theory+Practical	Introduction to structured programming: data types- simple data types, floating data types, character data types, string data types, arithmetic operators and operators precedence, variables and constant declarations, expressions, input using the extraction operator >> and cin, output using the insertion operator << and cout, preprocessor directives.	B.Sc.(H) Maths – III	32357503 / C++ Programming
	Theory	Basic theory of higher order linear differential equations, Wronskian and its properties, Solving a differential equation by reducing its order. Linear homogenous equations with constant coefficients, Linear non-homogenous equations, The method of undetermined coefficients.	Generic Elective – II	32355301/ Differential Equations
August	Theory+Practical	increment(++) and decrement() operations, creating a C++ program, input/ output, relational operators, logical operators and logical expressions, if and if-else statement, switch and break statements.	B.Sc.(H) Maths – III	32357503 / C++ Programming
September	Theory	The method of variation of parameters, The Cauchy-Euler equation, Simultaneous differential equations. Partial differential equations: Basic Concepts and definitions, Mathematical problems; First order equations: Classification and construction. "for", "while" and "do-while" loops and continue statement, nested control statement, value returning functions, value versus reference parameters, local and global variables.	Generic Elective – II	32355301/ Differential Equations
October	Theory	Geometrical interpretation, Method of characteristics, General solutions of first order partial differential equations. Canonical forms and method of separation of variables for first order partial differential equations. Second order partial differential equations: Classification, Reduction to canonical forms, With constant coefficients, General solutions.	Generic Elective-II	32355301/ Differential Equations
October	Theory+Practical	one dimensional array, two-dimensional array, pointer data and pointer variables.	B.Sc.(H) Maths – III	32357503 / C++ Programming

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Name of the Faculty Member: Kashif Ahmed. Department: Mathematics, Year: 2017-18

Month	Theory/Practical	Topics	Course	Paper code
January	Theory	Fundamental operation with vectors in Euclidean space n , Linear combination of vectors, dot product and their properties, Cauchy-Schwarz inequality, Triangle inequality, Projection vectors. Some elementary results on vectors in n ; Matrices: Gauss–Jordan row reduction, Reduced row echelon form, Row equivalence, Rank. Linear combination of vectors, Row space, Eigenvalues, Eigenvectors, Eigenspace, Characteristic polynomials, Diagonalization of matrices.	Generic Elective-I	32355202
February	Theory+Practical	Introduction to compartmental models, Lake pollution model (with case study of Lake Burley Griffin), Drug assimilation into the blood (case of a single cold pill, case of a course of cold pills, case study of alcohol in the bloodstream),	B.Sc.(H) Maths – I	32351202
February	Theory	Definition and examples of vector space, Some elementary properties of vector spaces. Subspace, Span of a set, a spanning set for an eigenspace, Linear independence and dependence, Basis and dimension of a vector space, Maximal linearly independent sets, Minimal spanning sets. Application of rank: Homogenous and non-homogenous systems of linear equations; Coordinates of a vector in ordered basis, Transition matrix.	Generic Elective-I	32355202
	Theory+Practical	Exponential growth of population, Limited growth of population, Limited growth with harvesting.	B.Sc.(H) Maths – I	32351202
March	Theory	Linear transformations: Definition and examples, Elementary properties. The matrix of a linear transformation, Linear operator and similarity. Application: Computer graphics, Fundamental movements in a plane; Homogenous coordinates, Composition of movements. Kernel and range of a linear transformation, Statement of the dimension theorem, examples.	Generic Elective I Year	32355202
	Theory+Practical	Interacting population models, Epidemic model of influenza and its analysis, Predator-prey model and its analysis.	B.Sc.(H) Maths – I	32351202
April	Theory	One to one and onto linear transformations, Invertible linear transformations, isomorphism, isomorphic vector spaces. Orthogonal and orthonormal vectors, orthogonal and orthonormal bases, orthogonal complement, statement of the projection theorem and examples. Orthogonal projection onto a subspace.	Generic Elective -I	32355202
	Theory+Practical	Equilibrium points, Interpretation of the phase plane, Battle model, Epidemic model and its analysis.	B.Sc.(H) Maths – I	32351202

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Name of the Faculty Member: Dr. Jaspreet Kaur

Department: Mathematics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper code/ Name
July	Multivariate Calculus (Theory 4+Practical 8) GE-Calculus	Def. function of several variables, graphs of two variable functions, Limit and continuity of two and three variable. Partial derivatives, Higher order partial derivatives, Tangent planes, Total differential. Practical based on these topics in maxima software. Epsilon-delta def of limit of a function, one sided limit, limits at infinity, asymptotes, differential of a function.	B.Sc(H) Mathematics IInd year B.Sc(H) Physics Ist Year	Multivariate Calculus GE- Calculus
August	(Theory 5) Same as above	Chain rule, Maxima minima for functions of two variables, Lagrange multiplier, Def of vector field, Divergence and curl. Practical based on these topics. Concavity, points of inflection, curve tracing, indeterminate forms, L'Hopital rule, volumes by slicing, volumes by washer method, cylindrical shell method	Same as above	Same as above
September	Same as above	Double integrals over rectangular and non-rectangular regions, double integrals in polar coordinates, Triple integrals over simple solids, Triple integrals in cylindrical and spherical coordinates, Line integrals introduction. Practical based on these topics.	Same as above	Same as above
October	Same as above	Line integrals computation, application of line integrals, surface integrals, Green's theorem, Stokes theorem and Divergence theorem. Practical based on these topics.	Same as above	Same as above
		Length of plane curves, Area of surface of revolution, improper integration, Polar coordinates, Graphs in polar coordinates, Vector valued functions and results on vector valued functions.		

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Name of the Faculty Member: Dr. Jaspreet Kaur Department: Mathematics. Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper Name
January	Ring theory and Linear Algebra I (Theory 2 Tutorial 2) Complex Analysis (Theory 4+ Practical 8)	Definition and examples of rings, Properties of rings, subrings, integral domains and fields, characteristic of a ring, ideals. Question based on these topics from the recommended book discussed in tutorial classes. History of complex numbers, Functions of complex variable, Limit and continuity of functions of complex variables Practical: finding modulus, conjugate and argument of complex numbers, Geo. Interpretation of addition/sub and multiplication/division of complex nos., roots of unity and factors of polynomial	B.Sc(H) Mathematics IInd year B.Sc(H) Mathematics IIIrd year	Ring theory and Linear Algebra I Complex Analysis
February	Same as above	Ideal generated by a subset, factor rings, operations on ideals, prime and maximal ideals. Question based on these topics from the recommended book discussed in tutorial classes. Differentiability of complex functions, Cauchy-Riemann equations, Analytic functions, Elementary functions such as complex exponential, Complex log and Complex trigonometric functions. Practical: Image of certain sets such as unit circle, disk, line segments under elementary function and bilinear mappings.	Same as above	Same as above
March	Same as above	Ring homomorphism, properties of ring homomorphisms. Question based on these topics from the recommended book discussed in tutorial classes. Contour integration, ML-inequality theorem and applications, antiderivatives, Cauchy – Goursat theorem, Liouvilles theorem, fundamental theorem of algebra, Cauchy integral formula Practical: Verification of CR-equations Computation of contour integrals. Graphs of real and imaginary parts of complex functions.	Same as above	Same as above
April	Same as above	Isomorphism theorems for rings, The field of quotients. Question based on these topics from the recommended book discussed in tutorial classes. Complex sequences and series, complex power series, Taylors theorem, Laurent theorem, Singular points, Types of singular points, Poles and residues. Practical based on the above topics.	Same as above	Same as above

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	ent: Mathe	y member: Ms. Archana Chopra		
Year: 20				
Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
	Theory	Equivalence relations, Functions, Composition of functions.	B.Sc(H) Mathematics 1st Sem	Algebra 32351102
July	Theory	Definition of the limit, Sequential criterion for limits, Criterion fornon-existence of limit.	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351301
	Tutorial	Discussion on limits	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351302
		Invertibility and inverse of functions, One-to-onecorrespondence and the cardinality of a set.	B.Sc(H) Mathematics 1st Sem	Algebra 32351102
August	Theory	Algebra of limits of functions with illustrations and examples, Squeeze theorem. Definition and illustration of the concepts of one-sided limits, Infinite limits and limits at infinity. Definitions of continuity at a point and on a set, Sequential criterion for continuity, Algebra of continuous functions, Composition of continuous functions.	B.Sc(H) Mathematics3rd Sem	Theory of Real Functions 32351301
	Tutorial	Doubts discussion and Exercise Questions	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351302
		The Euclidean algorithm. Well ordering principle, The division algorithm in Z	B.Sc(H) Mathematics 1st Sem	Algebra 32351102
Septemb er	Theory	Various properties of continuous functions defined on an interval, viz., Boundedness theorem, Maximum-minimum theorem, Statement of the location of roots theorem, Intermediate value theorem and the preservation of intervalstheorem. Definition of uniform continuity, Illustration of non-uniform continuity criteria, Uniform continuity theorem. Test-1	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351301
	Tutorial	Doubts discussion and Exercise Questions	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351302





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		Divisibility, Modular arithmetic and basic properties ofcongruences. Test	B.Sc(H) Mathematics 1st Sem	Algebra 32351102
October	Theory	Differentiability of a function, Algebra of differentiable functions, Carathéodory's theorem and chain rule.: Relative extrema, Interior extremum theorem, Mean value theorem and its applications.	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351301
	Tutorial	Doubts session and presentations based on exercisequestions	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351302
		Statements of the fundamental theorem of arithmetic and principle of mathematical induction.	B.Sc(H) Mathematics 1st Sem	Algebra 32351102
Novembe r	Theory	Intermediate value property of derivatives- Darboux's theorem. Taylor polynomial, Taylor's theorem and its applications, Taylor's series expansions of , sin x e x and cos.Test-2	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351301
	Tutorial	Exercise Questions and Presentations	B.Sc(H) Mathematics 3rd Sem	Theory of Real Functions 32351302

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Month	Theory/ Practical/ Tutorials	Topics	Course	Paper code/ Name
		Definitions and examples of pointwise and uniformly convergent sequence of functions. Motivation for uniform convergence by giving examples. Theorem on the continuity ofthe limit function of a sequence of functions.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
January	Theory	Graphs of simple concrete functions such as polynomial, Trigonometric, Inverse trigonometric, Exponential and logarithmic functions. Limits and continuity of a function including epsilon-delta approach, Properties of continuous functions including Intermediate value theorem.	B.Sc(Prog) 2nd Sem	Calculus and Geometry 42351201
		Finite and infinite sets, Examples of countable and uncountable sets; Absolute value of the real line; Bounded sets, Suprema and infima, Statement of order completeness property of R, Archimedean property of R.: Real sequences, Convergence, Sum and product of convergent sequences, Order preservation and squeeze theorem.	B.Sc(Prog) 4th Sem	Real Analysis 42354401
	Tutorial	Practice questions based on exercise.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
		Practice questions based on exercise problems.	B.Sc(Prog) 4th Sem	Real Analysis 42354401

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		The statement of the theorem on the interchange of the limitfunction and derivative, and its illustration with the help of examples. The interchange of thelimit function and integrability of a sequence of functions. Pointwise and uniform convergence of series of functions, Test	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
		Differentiability, Successive differentiation, Leibnitz theorem, Recursion formulae for higher derivatives.	B.Sc(Prog) 2nd Sem	Calculus and Geometry 42351201
Februar y	Theory	Monotone sequences and their convergence; Proof of convergence of some simple sequences. Subsequences and the Bolzano–Weierstrass theorem (statement and examples); Limit superior and limit inferior of a bounded sequence (definitionand examples); Statement and illustrations of Cauchy convergence criterion for sequences. Definition and anecessary condition for convergence of an infinite series, Geometric series, Cauchy convergence criterion for series;	B.Sc(Prog) 4th Sem	Real Analysis 42354401
	Tutorial	Presentations based on exercise questions and doubt session.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
		Presentations based on exercise questions and doubt session.	B.Sc(Prog) 4th Sem	Real Analysis 42354401
		Theorems on the continuity, derivability and integrability of the sum function of a series offunctions. Cauchy criterion for the uniform convergence of series of functions, and the Weierstrass M-test for uniform convergence. Definition of a power series, Radius of convergence.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
March	Theory	Rolle's theorem, Lagrange's mean value theorem with geometrical interpretations and simple applications, Taylor's theorem, Taylor's series and Maclaurin's series, Maclaurin's expansion of functions such as sinx, cos x, log(1+x), e^x, (1+x)^m.	B.Sc(Prog) 2nd Sem	Calculus and Geometry 42351201





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		Positive term series, State the integral test and prove the convergence of p-series, Comparison test, Limit comparison test and examples. D'Alembert's ratio test, Cauchy's root test; Alternating series, Leibnitz's test; Absolute and conditional convergence. Sequences and series offunctions, Pointwise and uniform convergence. Test-1	B.Sc(Prog) 4th Sem	Real Analysis 42354401
	Tutorial	Practice session and doubts discussion.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
		Practice session and doubts discussion.	B.Sc(Prog) 4th Sem	Real Analysis 42354401
		Theorems on the continuity, derivability and integrability of thesum function of a series of functions. Differentiation and integration of power series, Statement of Abel's Theorem and its illustration with the help of examples. Test	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
	Theory	polynomial approximation and error estimation. Functions of two or more variables, Graphs and Level curves of functions oftwo variables, Partial differentiation up to second order. Test	B.Sc(Prog) 2nd Sem	Calculus and Geometry 42351201
April		Uniform norm, Cauchy general principle for uniform convergence of series of functions, Weierstrass M- test. Definition of power series, Radius and interval of convergence, Power series expansions and their properties. Riemann Integration and examples, Integrability of Continuous and Monotone Functions. Test-2.	B.Sc(Prog) 4th Sem	Real Analysis 42354401
	Tutorial	Presentations based on exercise questions and doubt session.	B.Sc(H) Mathematics 4th Sem	Reimann Integrationand Series of Functions 32351402
		Presentations based on exercise questions and doubt session.	B.Sc(Prog) 4th Sem	Real Analysis 42354401





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Name of the Faculty member: Ms. Rajni Gupta Department: Mathematics Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper code/ Name
July	Theory	Introducing R, using R as a calculator; Explore dataand relationships in R	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
	Practical	Introduction to R software and Rstudio. Practice on Rbased on topics done in theory.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
August	Theory	Reading and getting data into R: Combine and scan commands, viewing named objects and removing objects from R, Types and structures of data items with their properties, Working with history commands, Saving work in R.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
	Practical	Practice based on the topics covered in theoryclasses. Exercise questions discussion.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
September	Theory	Manipulating vectors, Data frames, Matrices and lists; Viewing objects within objects, Constructing data objects and their conversion. Summary statistics for vectors. Test-1	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
	Practical	Practice based on the topics covered in theory classes. Practical Test -1 . Discussion based onsample questions.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R

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				42353503
October	Theory	Data frames, Matrices and lists; Summary tables.Stemand leaf plot, Histograms, Density function and its plotting, The Shapiro-Wilk test for normality, The Kolmogorov-Smirnov test.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
	Practical	Practice based on the topics covered in theoryclasses. Exercise questions discussion.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
November	Theory	Plotting in R: Box-whisker plots, Scatter plots, Pairsplots, Line charts, Pie charts, Cleveland dot charts, Bar charts; Copy and save graphics to other applications. Test-2	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503
	Practical	Practice based on the topics covered in theory classes. Practical Test -2. Working in R based onbigger data excel sheets from govt. websites.	B.Sc(Prog) Chem+Comp. Sci 5thSem	SEC-3 Statistical Software: R 42353503





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Name of the Faculty member: Ms. Rajni Gupta

Department: Mathematics

Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper code/ Name
January	Tutorial	Practice questions and Doubt session	B.Sc(H) Mathematics 6th Sem	DSE: Linear Programming & Theoryof Games 32357611
		Practice questions and Doubt session	B.Sc(Prog) Chem+Comp Sci 6thSem	DSE: Probability & Statistics 42357602
	Theory	Transportation problem and its mathematical formulation, northwest-corner method, least costmethod and Vogel approximation method for determination of starting basic feasible solution. Algorithm for solving transportation problem.	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
		Computer Algebra Systems (CAS), Use of a CAS as a calculator, Simple programming in a CAS. Computing and plotting functions in 2D.	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Practical	Transportation problem on Excel Solver	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
		Introduction to mathematica software and practice ofcommands.	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
		Practice questions and Doubt session. Presentation	B.Sc(H) Mathematics 6th Sem	DSE: Linear Programming &

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	Tutorial			Theoryof Games 32357611
February		Exercise Questions and Doubt session	B.Sc(Prog) Chem+Comp Sci 6thSem	DSE: Probability & Statistics 42357602
rebluary		Assignment problem and its mathematical formulation, Hungarian method for solving assignment problem, traveling salesperson problem.	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
	Theory	Customizing Plots, Animating Plots, Producing table ofvalues, Working with piecewise defined functions, Combining graphics. Factoring, Expanding and finding roots of polynomials, Working with rational and trigonometric functions.	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Practical		B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
		Practice over mathematics and discussion of exercisequestions.	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Tutorial	Exercise Questions and Doubt session	B.Sc(H) Mathematics 6th Sem	DSE: Linear Programming & Theoryof Games 32357611
		Practice questions of Exercise and Doubt session	B.Sc(Prog) Chem+Comp Sci 6thSem	DSE: Probability

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& Statistics 42357602



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March	Theory	Network models, minimum spanning tree algorithm, shortest-route problem, maximum flow model. Test-1	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
		Computing limits, First and higher order derivatives, Maxima and minima, Integration, computing definiteand indefinite integrals. Solving general equations. Test-1	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Practical	Network related questions on solver. Exercisequestions.	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
		Practice based on topics done in theory. PracticalTest-1	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Tutorial	Practice questions and Doubt session. Presentations	B.Sc(H) Mathematics 6th Sem	DSE: Linear Programming & Theoryof Games 32357611
April		Practice questions and Doubt session	B.Sc(Prog) Chem+Comp Sci 6thSem	DSE: Probability & Statistics 42357602
Дрії		Project network, CPM and PERT.	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604
	Theory	Performing Gaussian elimination, Operations(transpose, determinant, and inverse), Minors and cofactors, Solving systems of linear equations, Rank and nullity of a matrix, Eigenvalue, Eigenvector and diagonalization. Test-2	B.Sc(Prog) Chem+Comp. Sci 4thSem	SEC- II Computer Algebra System 42353404
	Practical	Project problems on solver. Practical Test	B.Sc(Prog) Chem+Comp Sci 6thSem	SEC: Transportation and NetworkFlow Problems 42353604





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Computer Science Department





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Name of the Faculty Member: Ms. Hunny Gaur

Department: Computer Science

Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper code/ Name
July	Theory + Practicals	 Introduction to web design: HTML, DTD Creating HTML documents (web pages) Understanding basic HTML elements 	Generic Elective for BA/BSc Hons, II Year	Computer Networks & Internet Technologies (32345301)
August	Theory + Practicals	 Creating list, tables, hyperlinks, web forms Working with images and frames Introduction to CSS Enhancing web pages using CSS 	Generic Elective for BA/BSc Hons, II Year	Computer Networks & Internet Technologies (32345301)
September	Theory + Practicals	 Introduction to Java Script Making dynamic web pages using Java Script What is a Computer Network How communication occur in a network 	Generic Elective for BA/BSc Hons, II Year	Computer Networks & Internet Technologies (32345301)
October	Theory + Practicals	 Components of data communication Types of networks and network models Wired and wireless transmission media Network topologies 	Generic Elective for BA/BSc Hons, II Year	Computer Networks & Internet Technologies (32345301)
November	Theory + Practicals	 Network devices Understanding internet terms and applications 	Generic Elective for BA/BSc Hons, II Year	Computer Networks & Internet Technologies (32345301)

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Name of the Faculty Member: Ms. Hunny Gaur

Department: Computer Science

Year: 2017-18

Month	Theory/ Practical	Topics	Course	Paper code/ Name
January	Theory + Practicals	 Introduction and importance of data security Understanding terms: threat, vulnerability, flaw, exploit, attack Working with ceaser and rail-fence cipher Introduction to symmetric and asymmetric key cryptography 	Generic Elective for BA/BSc Hons, II Year	Information Security & Cyber Laws (32345401)
February	Theory + Practicals	 Risk analysis and process Security policies Understanding terms: authentication, data protection What are Internal and external threats etc. 	Generic Elective for BA/BSc Hons, II Year	Information Security & Cyber Laws (32345401)
March	Theory + Practicals	 Information gathering techniques: Tools for scanning, spoofing and password cracking Working with John the ripper and Ophcrack What is session hijacking Safety tools: firewall, IDPS 	Generic Elective for BA/BSc Hons, II Year	Information Security & Cyber Laws (32345401)
April	Theory + Practicals	 What is digital crime Cyber forensics Difference between Digital and electronic signatures Cyber laws 	Generic Elective for BA/BSc Hons, II Year	Information Security & Cyber Laws (32345401)





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Physical Education Department

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Name of the Faculty Member: SUJAY JOHN K

Year: 2017-18

Department: PHYSICAL EDUCATION

Month		Topics	Course	Paper Name	Paper Code
	Theory	Health Education: Meaning, Concept and Principles Health – Importance, Components, Health Promoting Behaviours		Health Education Anatomy and Physiology GE II	12555321
	Practical	Asanas and Therapeutic Value : Karnapeedasana, Padmasana, Dhanurasana	GE		
	Tutorial				
July	Theory	WHOLISTIC PERSONALITY DEVELOPMENT - Unit 1 Introduction to Personality & holistic Personality, Meaning and Definition of Personality & holistic Personality. Introduction to the acronym CAKE		Holistic Personality Development SEC	62553339
	Practical	Measuring self-responsibility of 24 hours recall method.	SEC		
	Tutorial				





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	Theory	Unit-I Physical Activity and Wellness Concept, Benefits of Participation in Physical Activities with Specific Reference to Health Concept, Components, Significance with specific reference to Positive Lifestyle, Quality of Life.			
	Practical	Introduction : Walking, Jogging, Running, Calisthenics, Rope Skipping, Cycling, Swimming, Circuit Training, Weight training, Adventure Sports	SEC	Wellness and Fitness SEC	62553503
	Tutorial				
	Theory	UNIT-I Meaning and definition of Sports, Motivation towards Sports for fun, competitions, Health, rehabilitation. UNIT-II Meaning and definition; Components of health related Physical Fitness.			
	Practical	Practical 1, 2 and 3	GE	Sports for All GE III	62555501
	Tutorial				
	Theory	Role of Personal Hygiene, Mental Hygiene, Sleep Hygiene, Occupational Hygiene in PE & sports Role of Different Agencies in Promoting Health (WHO, UNICEF, Local Bodies)		Health	
August	Practical	Asanas and Therapeutic Value : Sarvangasana, Paschimottanasana, Chakrasana,	GE	Education Anatomy and Physiology	12555321
	Tutorial	EN'S		GE II	

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Theory	Components of holistic Personality in relation to existing knowledge on personality and character building. PEST MOVES. Holistic personality as represented by the car and its four wheels.			62553339	
Practical	Measurement of holistic personality	SEC	Holistic Personality Development SEC		
Tutorial			020		
Theory	Unit-II Fitness Fitness – Concept, Components (Health Related, Skill Related, Cosmetic),				
Practical	Significance; Aerobic and Anaerobic Exercise, Target Heart Rate, Warming Up, Conditioning, Cooling Down,	SEC	Wellness and Fitness SEC	62553503	
Tutorial					
Theory	UNIT-III SPORTS FOR FUN: Fun, Games Festival; Organizing Games Festival; Games Festival Facility; Sports Clubs. SPORTS FOR COMPITITIONS: Competition; Sports Selections; Sports participation and sports competitions.				
Practical	Practical 4, 5 and 6	GE	Sports for All GE III	62555501	
Tutorial					
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	Theory	Need and Importance of Anatomy & Physiology in PE Definition and Description of Cell, Tissue, Organ and System Brief Introduction to Skeletal System, Muscular System, Circulatory System, Respiratory System		Health	
	Practical	Asanas and Therapeutic Value : Matsyasana, Ardhmatsyendrasana, Usthrasana	GE	Education Anatomy and Physiology	12555321
	Tutorial			GE II	
	Theory	UNIT-II: PHYSICAL PERSONALITY DEVELOPMENT			
September	Practical	Personality development prescription to type A, type B and type C mental personality people. Application of MEN Acronyms.	SEC	Holistic Personality Development SEC	62553339
	Tutorial				
	Theory	Unit II: 2. General Principles of Training: Introduction, Significance and Benefits of each Principle			
	Practical	General Principles of Training: Practical Training and Concept of Training	SEC	Wellness and Fitness SEC	62553503
	Tutorial	OHEN'S			

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	Theory	UNIT-IV SPORTS FOR HEALTH: Health; Diagnosis of ill-health, Prevention and Treatment of ill health and Sports. SPORTS FOR PHYSIOTHERAPY: Physiotherapy & Handicap. Exercise and Sports for physiotherapy. Testing of progress physiotherapy.			
	Practical	Practical 7, 8, 9	GE	Sports for All GE III	62555501
	Tutorial				
	Theory	Effects of Exercise on different systems of the body Concepts Warming-up, Conditioning, Cooling-down Fatigue, Stitch, Cramp, Oxygen Debt, Second Wind Maximum Heart Rate, Vital Capacity, Stroke Volume, Temperature Regulation, Lactate Threshold and VO2 max.	GE	Health Education Anatomy and Physiology GE II	12555321
	Practical	Asanas and Therapeutic Value : Mayurasana, Shirshasana, Vajrasana Demonstrate Warming-up / Conditioning / Cooling-down exercises.			
October	Tutorial			GEII	
	Theory	UNIT-III: MENTAL & SPIRITUAL PERSONALITY DEVELOPMENT	050	Holistic Personality	00550000
	Practical	Personal identity measurement from health variables. Personality measurement from fitness and from wellness variables.	SEC	Development SEC	62553339





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Tutorial				
Theory	Unit III: Effects of Exercise on Skeletal, Muscular, Circulatory and Respiratory			62553503
Practical	Basic Anatomical and Physiology of Selected Systems of the Human Body	SEC	Wellness and Fitness SEC	
Tutorial				
Theory	UNIT-V SPORTS FOR CHALLENGED POPULATIONS: Visually, Auditory, Physical and Modified Sports. SPORTS FOR FIGURE & PERSONALITY: Meaning, concept and definition of Figure; disfigure effects; weight control, exercise and Sports.			
Practical	Practice of Measurement of Health Parameters on Self and others	GE	Sports for All GE III	62555501
Tutorial				





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Department: PHYSICAL EDUCATION

Name of the Faculty Member: SUJAY JOHN K

Year: 2017-18

Month		Topics	Course	Paper Name	Paper Code
	Theory	Unit 1: Total Fitness: Physical Activity, Concept; Types, Components of Physical Fitness and Principles	GE	Fitness, Wellness and Nutrition	12555260
	Practical	Measurement of Fitness Components			
January	Tutorial				
January	Theory	Unit 1: Posture Concept - Good or Bad; Types; Effects and Deformities		Posture, Athletic Care and First Aid	12555422
	Practical	Identifying Different Postural Deformities - Stretches associated	GE		
	Tutorial				

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Theory	Unit 1 Balanced Education and Unit 2 Health Concept, Types and Importance of difference factors			
Practical	Measurement of body height, weight, BMI, and Pulse rate.	GE Balance Education		62555629
Tutorial				
Theory	Unit I Introduction and overview of Sports Industry and Sports Marketing; Contingency Framework for Strategic Sports Marketing		Sports Industry and Marketing	62553601
Practical	Marketing Plan: Environmental Factors and Product Plan Draft bibliography/works cited	SEC		
Tutorial				
Theory	Unit-I:: Audio-Visual Aids in Physical Education Role of Media and Public Relations in Physical Education		Media and Careers in Physical Education	62553440
Practical	Organising an event / intramural / tournament	SEC		
Tutorial			SEC	

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	Theory	Unit II: Wellness: Positive Lifestyle; Quality of Life; Factors effecting Wellness; Wellness Programmes			
	Practical	Anthropometric Measurements; Calculating BMI and WHR	GE	Fitness, Wellness and Nutrition	12555260
	Tutorial				
	Theory	Postural Deformities and their Corrective Exercises Illnesses due to improper posture			
February	Practical	Active and Passive Exercises	GE	Posture, Athletic Care and First Aid	12555422
	Tutorial				90 90 90 90 90 90 90 90 90 90 90 90 90 9
	Theory	Unit 3: Wealth: Concept HRPF, Principles of Physical Fitness and Technology used to develop fitness			
	Practical	Meditation techniques and importance of man-made and natural environment.	GE	Balance Education	62555629
	Tutorial				

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	Theory	Environment and Structure of the Sports Industry; Overview of the Strategic Sports Marketing Process ownership Structure, Major and Minor Pro League Sports; Amateur Sports; Unorganized Sports			
	Practical	Understanding the Sports Industry in India	SEC Industry a	Sports Industry and Marketing	
	Tutorial				
	Theory	Unit-II: Professional Courses in Physical Education and Sports Careers in Fitness, Health, Physical Education, Sports Management and Sports Journalism		Media and	
	Practical	News Reporting for Print Media	SEC	Careers in Physical Education	62553440
	Tutorial			SEC	
	Theory	Unit IIII: Nutrition: Concpet and Fundamental of Diet and Nutrition; Gimmicks. Energy Balance Equation			
March	Practical	Wellness Program ONE - Able Bodied Health Fitness and Wellness	GE Fitness, Wellness and Nutrition	12555260	
	Tutorial				
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	Theory	Unit II: Athletic Care Injuries - Principles of Injury prevention; Common Injuries in Sports and Management			
	Practical	Asanas wit hTherapeutic Benefits	GE	Posture, Athletic Care and First Aid	12555422
	Tutorial				
	Theory	Unit IV: Physical Fitness and Wellness Introduction and inter relation between the concepts, factors influencing both concepts			
	Practical	Importance of healthy environmental choices with the help of meditation, exercise and nutritional habits	GE	Balance Education	62555629
	Tutorial				
	Theory	Unit II Social Impact of Sports, Sports and Culture: Commercialization : Legal and Ethical Issues; Competition and Aggressiveness as Dominant Social Values			
	Practical	Developing and Pitching Sponsorship proposal	SEC	Sports Industry and Marketing	62553601
0	Tutorial	OF NO.			

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	Theory	Careers in Fitness, Health, Physical Education, Sports Management and Sports Journalism		Media and	
	Practical	News Reports for Electronic Media	SEC	Careers in Physical Education	62553440
	Tutorial			SEC	
	Theory	Unit III: Weight Management: Obesity, NCD, Health Related Problems associated with Obesity Weight Management through Behavioral Modifications	Fitness, GE Wellness and Nutrition		
April	Practical	Wellness Program TWO - Challenged Populations		Wellness	12555260
	Tutorial				
	Theory	Unit III: First Aid, Ergogenic Aids and Rehabilitation; Therapeutic Modalities; Muscle Strengthening	Posture, Athletic Care and First Aid		
	Practical	PRICE and FIRST AID		Athletic Care	
	Tutorial				

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	Theory	Unit 5 Longevity and relation with Success and Happinesss			
	Practical	Skills to Managem of wellness.	GE	Balance Education	62555629
	Tutorial				
	Theory	Unit III Economic Impact of Sports Globalization and Sports, Implementing and Controlling the Strategic Sports Marketing Process			
	Practical	Developing a budget plan for an event Athlete branding	SEC	Sports Industry and Marketing	62553601
	Tutorial				
	Theory	E Organization of Intramural / Extramural Competitions and/or Physical Education and Sports Events -Seminar, Clinic, Lecture	SEC Media and Careers in Physical Education		
	Practical	Create a Presentation for a sports event using audio visual aids		Careers in Physical	62553440
	Tutorial				

