

|| Dhairyam Sarvatra Sadhanam || Shri Shivalingeshwar Shikshan Sanstha's Sankh Shri.R.K.Patil Arts, Commerce and Science College, Sankh. Tal.Jath, Dist.Sangli. 416 412. College Code : 616 Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4) PH : 02344-299127. Mob. : (O) 7448000616.

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Department of English B.A. English

PROGRAM OUTCOMES:

- 1. Students will be able to appreciate literary and linguistics developments of different countries and different periods.
- 2. Students will comprehend major trends, movements, and isms and different critical and linguistics approaches.
- 3. Students will develop acumen to appreciate, interpret and critically evaluate prescribed text.
- 4. Students will be able to interpret, analyse and evaluate different varieties of written and spoken English.
- 5. Students will be able to analyse unseen poem and prose stylistically.
- 6. Students will learn different approaches to syllabus design and methods of teaching.

PROGRAM SPECIFIC OUTCOMES:

- 1. To understand the major and minor forms of literature.
- 2. To develop interest in literature and language.
- 3. To understand the short stories, poems, novels and dramas.
- 4. To know the literary theories, terms and concepts of Criticism.
- 5. To appreciate the literary works.
- 6. To understand the structure and function of grammatical units.

Department of English		
Course	Outcomes	
BA.III (English) English Paper- I(EnglishForCommunication)	 The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. The students will be able to face job interviews confidently and efficiently. The students will be able to acquire soft skills required at workplaces and in real life. The students will be able to learn group behavior and team work. 	
Paper No. VII		
(DSE-E11 Introduction To Literary Criticism)	 Students are able to understand the major trends in criticism. Students are able to interpret critical concepts. Students are able to study the original contributions to literary criticism. 	
	4. Students are acquainted with literary and critical movements.	
Paper No. VIII (DSE-E12 English Poetry)	 Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India. Students will be able to appreciate and analyze the poems properly. Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements. Students will have an insight into poetry and they will be able to make a lively and interesting reading. 	
Paper No. IX (DSE-E13 English Drama)	 Students are able to understand different forms of drama. Students are able to relate drama to their ideological or socio-political contexts. Students are able to improve their creative and imaginative faculties through the reading of drama. Students are able to know about various aspects of the drama. 	
Paper No. X	1. Students are able to understand different forms of novel.	

(DSE-E14 English Novel)	2. Students are able to relate novels to their ideological or socio-political contexts.	
	3. Students are able to improve their creative and imaginative faculties through the reading of novels.	
	4. Students are able to know about various aspects of the novel.	
Paper No. XI (DSE-E15 Language And Linguistics)	 Students know the concept of communication. Students are familiar with varieties of the English language. Students know different levels of study of the English language. Students know basic units of grammar. 	
Paper No. (B.Sc. III) English For Communication	 The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. The students will be able to face job interviews confidently and efficiently. The students will be able to acquire soft skills required at workplaces and in real life. The students will be able to learn group behavior and team work. 	
Paper No. BA-II(SEM-VI)(English For Communication)	 The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. The students will be able to face job interviews confidently and efficiently. The students will be able to acquire soft skills required at workplaces and in real life. The students will be able to learn group behavior and team work. 	
Paper No. XII (DSE-E136	 Students are able to understand the major trends in criticism. Students are able to interpret critical concepts. 	
Introduction To Literary Criticism)	 Students are able to study the original contributions to literary criticism. Students are acquainted with literary and critical movements. 	
Paper No. XIII (DSE-E137 English Poetry)	 Students will be able to trace the development of Indian. Students will be able to appreciate and analyze the poems properly. 	

	 Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements. Students will have an insight into poetry and they will be able to make a lively and interesting reading. 	
Paper No. XIV (DSE-E138 English Drama)	 Students are able to understand historical and psychological concept of the Drama. Students are able to relate drama to their ideological or socio-political contexts. Students are able to improve their creative and imaginative faculties through the reading of drama. Students are able to know about various aspects of the drama. 	
Paper No. XV (DSE-E139 English Novel)	 Students are able to understand development of novel. Students are able to understand aspect of novel. Students are able to relate novels to their ideological or socio-political contexts. Students are able to improve their creative and imaginative faculties through the reading of novels. 	
Paper No. XVI (DSE-E140 Language And Linguistics)	 Students know words and phrases. Students know and identify elements and types of clauses. Students know types of sentences. Students know the different ways of structuring clauses. 	
Paper No. (B.Sc. III) English For Communication	 The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. The students will be able to face job interviews confidently and efficiently. The students will be able to acquire soft skills required at workplaces and in real life. The students will be able to learn group behavior and team work. 	
Paper No. (English For Communication)	 The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. The students will be able to face job interviews confidently and efficiently. 	

	3. The students will be able to acquire soft skills required at workplaces and	
	in real life.	
	4. The students will be able to learn group behavior and team work.	
	 The students will be able to learn to value and respect others' opinions and views and develop democratic attitude. The students will be able to face competitive examinations confidently and efficiently with adequate linguistic confidence. The students will be able to acquire professional skills required in media writing such as writing editorials. The students will be able to learn to appreciate and enjoy reading poetry and prose passages. 	
Paper No. III		
(DSC-C5 Literature and Cinema)	 The students will be able to understand film and its relationship to literature. The students will be able to acquire film literacy through a working knowledge of basic film terminology. The students will be able to develop critical approaches to engage with film adaptations The students will be able to establish a clear understanding of literature through film adaptations of literary texts. 	
Paper No. VI (DSC-C30 Partition Literature)	 The students will be able to understand cause and effect of Partition event. The students will be able to explain the hidden human dimensions of the partition. The students will be able to understand the impact of partition on society. The students will be able to understand historical events. 	
Paper No. (B.Com II) (English For BusinessCommunication)	 The students will be able to describe and recommend sales products. The students will be able to narrate function of the product. The students will be able to learn how to use English for talking to the customers. The students will be able to learn how to use English for discussing prices, discount, etc. 	
Paper No. BA. PART-II SEMESTER -IX (English For Communication)	1. The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.	

	 2. The students will be able to face job interviews confidently and efficiently. 3. The students will be able to acquire soft skills required at workplaces and in real life. 4. The students will be able to learn to value and respect others' 	
Paper No. V	opinions and views and develop democratic attitude.	
(DSC-C29 Literature and Cinema)	 The students will be able to understand film and its relationship to literature. The students will be able to acquire film literacy through a working knowledge of basic film terminology. The students will be able to develop critical approaches to engage with film adaptations The students will be able to establish a clear understanding of literature through film adaptations of literary texts. 	
Paper No. IV (DSC-C6 Partition Literature)	 The students will be able to understand effect of Partition on Women. 1. The students will be able to know the term of Home and Exile. 2. The students will be able to explain the hidden human dimensions of the partition. 3. The students will be able to understand the impact of partition on society. 4. The students will be able to understand historical events. 	
Paper No. B.Com II (English For Business Communication)	 The students will be able to describe and recommend sales products. The students will be able to narrate function of the product. The students will be able to learn how to use English for talking to the customers. The students will be able to learn how to use English for discussing prices, discount, etc. 	
Paper No. I BA. PART-I SEMESTER -I (English For Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language competence. The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces. 	

Paper No. I B.Sc. PART-I SEMESTER -I (English For Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language and business competence. The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
Paper No. I B.Com. PART-I SEMESTER -I (English For Business Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language and business competence. The students will be able to learn how to use English for discussing prices, discount, etc.
Paper No. II BA. PART-I SEMESTER -II (English For Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language competence. The students will be able to acquire professional skills required in telephonic communication.
Paper No. II B.Sc. PART-I SEMESTER -II (English For Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language and business competence. The students will be able to communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
Paper No. II B.Com. PART- ISEMESTER -II (English For Business Communication)	 The students will be able to acquire communication skills. The students will be able to understand human values through poems and prose. The students will be able to improve the language and business competence. The students will be able to speak in English at private sector.



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Department of Economics

Program Outcomes (POs) Program Specific Outcomes (PSOs) Course Outcomes (COs)

Department of Economics

Program Outcomes (POs)

After completing the graduation in Economics, the student will be able to,

PO 1: Justify knowledge of Indian economy.

- PO 2: Explain market structure and pricing policy.
- PO 3: Interpret monetary policy and fiscal policy.
- PO 4: Evaluate international trade issues.
- PO 5: Predict economic growth in five-year plans.
- PO 6: Use of various research techniques in his / her future research.

Program Specific Outcomes (PSOs)

After completing the graduation in Economics, the student will be able to,

- PSO 1: Outline basic concepts of economics.
- PSO 2: Analyse economic behavior in practice.
- PSO 3: Justify historical and current events from an economic perspective.
- PSO 4: Find alternative approaches to economic problems through exposure to coursework in allied fields.
- PSO 5: Create students' ability to suggest solutions for various economic problems.
- PSO 6: Predict growth rate of Primary, Secondary and Service sector of the economy with help of economic parameters.

Course Outcomes (COs)

B. A. in Economics

After the successful completion of this course students will be able to, B.A. I Sem. I

1. Economics Course - 1 Indian Economy I

- CO 1: Explain features of Indian economy at independence era and structural changes in the Indian economy.
- CO 2: Express his / her own views on poverty and unemployment.
- CO 3: Analyse problems of social inequality and rising of economy, problems, and remedies of regional imbalance in India
- CO 4: Identify trend of population growth, impact of population on economic growth and population policy 2000.

Sem. II

2. Economics Course - 2 Indian Economy II

- CO 1: Identify changing role of agriculture in Indian Economy.
- CO 2: Outline agricultural productivity, Green Revolution, need of 2nd Green Revolution.
- CO 3: Analyse need of industrialization, Industrial Policy since 1991, Problems and prospects of Cottage and Small-scale Industries and Foreign Investment Policies since 1991.
- CO 4: Explain concept, implementation, and impact on Indian economy of Liberalization, Privatization and Globalization.

B.A. II

Sem. III

3. Economics Course - 3 Principles of Macro Economics I

- CO 1: Analyse concept of macroeconomics with definition, nature, and scope.
- CO 2: Explain concept of GNP2, NNP³, GDP, GDP at market price, Per Capita Income and Disposable Income.
- CO 3: Explicate functions of money and theories of money, Index numbers and its importance.
- CO 4: Analyse Say's market law, Keynesian theory of employment, consumption

function. investment function and multiplier.

4. Economics Course - 4 Money and Banking

- CO 1: Analyse functions of commercial banks, types of banks, investment policy of commercial banks, process of credit creation and its limitations.
- CO 2: Analyse features of bank account, opening KYC and closing account, bankers and customers rights and obligations.
- CO 3: Identify History and organizational structure of Reserve Bank of India with functions, monitory policy, and credit creation
- CO 4: Analyse process and importance of loan, advantages, and disadvantages of bank merge.

5. CC – Principles of Co-operation Paper I

- CO 1: Explain meaning, definition, features, and principals of co-operation.
- CO 2: Illustrate role of co-operation in mixed economy.
- CO 3: Explain the role of co-operative registrar.
- CO 4: Analyse role of cooperative auditor.

Sem. IV

6. Economics Course - 5 Principles of Macro Economics II

- CO 1: Explain inflation with meaning, types, causes, effects, and remedies of controlling inflation.
- CO 2: Identify Hawtrey and Schumpeter theory of trade cycles.
- CO 3: Analyse meaning, nature, and scope of Public Finance with principle of maximum social advantage. As well as taxation and budget.
- CO 4: Illustrate public debt, Deficit Financing and Fiscal Policy.

7. Economics Course - 6 Banks and Financial Markets

- CO 1: Compare Capital Market and Money market in India with Role of SEBI.
- CO 2: Demonstrate Indian Financial Institutions, like Non Bank Financial Institutions, Loan companies in India, EXIM Bank and Mutual Funds.
- CO 3: Analyse Recommendation of the Narasimham Committee of 1991 and 1998.
- CO 4: Applying E Banking Service in daily use.

8. Co-operatives in India Paper II

- CO 1: Illustrate state co-operative bank functions, importance and problems.
- CO 2: Explain the problems and remedies of co-operative marketing.
- CO 3: Analyse role and problems of consumer co-operatives as well as sugar cooperatives.
- CO 4: Analyse role of national institutions in co-operation.

B.A. III

Sem. V

9. Economics Course - 7 Principles of Micro Economics I (DSE E-71)

- CO 1: Explain Meaning, Nature, and Scope of Micro Economics as well as its importance and limitations.
- CO 2: Express his / her own views about consumer behavior.
- CO 3: Describe various parameters related to demand and supply.
- CO 4: Explain production theories and cost benefit analysis of the firm.

10. Economics Course - 8 Economic of Development (DSE E-72)

- CO 1: Explain indicators of economic development, Sustainable and green development.
- CO 2: Identify underdeveloped economies, characteristics of underdeveloped economies. affecting factors on economic development.
- CO 3: Analyse Ricardian classical approach to the development, Myrdal's theory of economic development, Rostow's stages of economic growth and balanced and unbalanced theory of growth.
- CO 4: Build up resources for economic development like Human Capital, Technology. FDI, Aids etc.

11. Economics Course - 9 International Economics I (DSE E-73)

CO 1: Explain what trade is and trade theories of Ricardian and Heckscher-Ohlin theory of international trade.

Similarities, and dissimilarities in inter-regional and international trade.

- CO 2: Clarify of gains from international trade and its measurement.
- CO 3: Explain meaning of exchange rate, PPP10 theory, concept of fixed exchange rate, flexible exchange rate and floating exchange rate.

CO 4: Explicate tariffs and quotas, free trade, and trade protection policy.

12. Economics Course - 10 Research Methodology in Economics I (DSE E-74)

- CO 1: Analyse basic concept of research and its methodology.
- CO 2: Carry out a literature review, Steps of research, features of good research design and importance of research design.
- CO 3: Use of methods of data collection in his/her research.
- CO 4: Clarify sources of primary and secondary data and importance of data collection.

13. Economics Course - 11 History of Economic Thoughts I (DSE E-75)

- CO 1: Explain thoughts of classical economist like, Adam Smith's theory of value and canon and taxation, Malthusian theory of population etc.
- CO 2: Describe economic thoughts of great economist Fredrick List on stages Economic growth.
- CO 3: Analyse thoughts of Karl Marks about economic development.
- CO 4: Manipulate scientific concept of socialism and materialist, Theory of value, Theory of Surplus value and Concept of falling rate of profit.

Sem. VI

14. Economics Course - 12 Principles of Micro Economics II (DSE E-196)

- CO 1: Analyse the economic behavior of individual firms and markets.
- CO 2: Explain a firm's profit maximizing strategies under different market conditions.
- CO 3: Justify the factor pricing.
- CO 4: Comprehension classical and Keynesian theory of interest and risk and uncertainty theory of profit.

15. Economics Course - 13 Economics of Planning (DSE E-197)

- CO 1: Analyse development of planning and planning machinery in India.
- CO 2: Evaluate sectorial performance of the Indian economy.
- CO 3: Explain NITI Ayog, need for establishment, organization, objectives, and work.
- CO 4: Identify plan models in Indian plan period.

16. Economics Course - 14 International Economics II (DSE E-198)

- CO 1: Illustrate difference between balance of trade and balance of payments.
- CO 2: Discuss the various types of foreign capital.
- CO 3: Compute the trends of Foreign Direct Investment in India.
- CO 4: Analyse the impact of international institutions on Indian economy.

17. Economics Course - 15 Research Methodology in Economics II (DSE E-199)

- CO 1: Analyse optimum size of sampling.
- CO 2: Use techniques of data analysis in research.
- CO 3: Classified the data in tabular form.
- CO 4: Clarify how to write a research proposal for grants.

18. Economics Course - 16 History of Economic Thoughts II (DSE E-200)

- CO 1: Illustrate views of Mahatma Phule on agriculture and education.
- CO 2: Explain views of Dr. Babasaheb Ambedkar on money, agriculture, and development policy. As well as Drain theory of Dadabhai Nauroji.
- CO 3: Justify views of Mahatma Gandhi views on village development, Swadeshi and Gram Swarajya.
- CO 4: Clarify economic thoughts of Gopal Krishna Gokhale, D. R. Gadgil, V. M. Dandekar and Amartya Sen.



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Department of Geography (2022-23)

B.A. (Geography)

PROGRAM OUTCOMES:

- 1. Acquire the knowledge of Geography and will correlate it with their practical life.
- 2. Demonstrate knowledge of physical and cultural features of the earth and locate them on a map.
- 3. Apply various statistical formulas to analyse data. Identify and obligate to professional ethics, moral responsibilities and scientific norms.
- 4. Involve in independent and lifelong learning. Demonstrate project management and entrepreneurial skills.
- 5. Students will read, interpret, and generate maps and other geographic representations as well as extract, analyse and present information from a spatial perspective.
- 6. Develop a sense of research to predict cause and affect relationships.

PROGRAMME SPECIFIC OUTCOMES:

- 1. Student will gain the knowledge of physical geography. They will gather knowledge about the fundamental concepts of Geography and will have a general understanding about the geomorphologic and geotectonic process and formation. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change.
- 2. Inculcating a tolerant mind-set and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography. Explaining and analysing the regional diversity of India through interpretation of natural and planning regions.
- 3. Analysing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics. Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization
- 4. Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviourism, idealism etc.
- 5. Sensitization and awareness about the hazards and disasters to which the subcontinent

is vulnerable; and their management.

6. Training in practical techniques of mapping, cartography, software, interpretation of maps, photographs and images etc. so as to understand the spatial variation of phenomena on the Earth's surface. They will learn how to prepare map based on GIS by using the modern geographical map making techniques.

COURSE OUTCOMES OF B.A. III (Geography)

Paper 7: EVOLUTION OF GEOGRAPHICAL THOUGHT

1) Student should be able to understand in-depth about the Evolution of Geographical Thought.

2) Students should be able to analyse the recent trends in geography.

3) Student should be able to make use of various models of paradigms and debates in the Geographical studies.

4) Understanding of recent trends in geography.

Paper 8: GEOGRAPHY OF INDIA

1) The student understands the dimensions and physiography of India.

2) The students are fully aware about the climatic seasons in India.

3) The student learns about soils, vegetation's, drainage systems in India.

4) The student acquires an importance of agriculture and industry in Indian economy.

Paper 9: POPULATION GEOGRAPHY

1) The student understands sources of demographic data.

2) The student learns distribution and trends of population growth in the developed and less developed countries.

3) The student understands population composition in different regions of the world.

4) The student understands the problem of over population and will be act for control population.

Paper 10: ECONOMIC GEOGRAPHY

1) Student should be able to understanding about the economic geography.

2) Student able to get knowledge about locational factors of economic activities with special reference to agriculture and industry.

3) Student able to understanding of the basic concepts related to manufacturing and major manufacturing industries (selected countries) of the world.

4) Student able to understanding of the transport and trade.

Paper 11: URBAN GEOGRAPHY

1) The student learns the importance of urban settlements.

2) The student understood the types of Urban Settlements, Site and Situations.

3) The student learns relationship between human activities and urban development.

4) The student gets knowledge of present urban problems and thinks about solutions of it.

Paper 12: POLITICAL GEOGRAPHY

1) The student understands the Political geography as a fundamental branch of Human Geography.

2) The student learns theories of Political Geography.

3) The student aware about resource conflicts and discuss regarding solutions, displacement.

4) To further the understanding of the students of uneven outcomes of political processes and the ways in which political processes are themselves affected by spatial structures.

Paper 13: FUNDAMENTALS OF MAP MAKING AND MAP INTERPRETATION

1) The student understands the elements map, and able to draw graphical scale and projection.

2) The student receives the knowledge about the analysis of landforms and its identification.

3) The student obtained the skills about map interpretation S.O.I. topographical maps and I.M.D. weather maps.

4) The students acquire different cartographic techniques and methods used for representation of demographic and physio- socio-economic database

Paper 14: ADVANCED TOOLS, TECHNIQUES & FIELD WORK IN GEOGRAPHY

1) The student obtains computer knowledge & skill of interpretation aerial photograph and satellite image.

- 2) The student gets hands of GIS and made use of GPS in day today life.
- 3) The student processes the geographical data using with different statistical methods.
- 4) The student does field work by use of modern techniques and able to write project report.



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Department of Political Science

Program Outcomes (POs) Program Specific Outcomes (PSOs) Course Outcomes (Cos)

Department of Political Science

Program Outcomes (POs)

After completing the graduation in Political Science, the student will be able to,

- PO1: Develop leadership with public vision.
- PO2: Enhance innovative approach of the student towards profession in Political Science.
- PO3: Becomes a responsible citizen will informed in fundamental right and obligations as well.
- PO4: Develop inclusive understanding of representation.
- PO5: The course curriculum inculcates among students a basic understanding of the Citizen- state relationship.
- PO6: Understanding inter-relationship between policy decisions and its effects on Society.

Program Specific Outcomes (PSOs)

After completing the graduation in Political Science, the student will be able to,

- PSO1: Learn organization of government machinery and representation.
- PSO2: Get effectiveness in translating the government philosophy into programme.
- PSO3: Deal with the concepts and dimensions of international politics.
- PSO4: Understand the constitutional and legal provision of America.
- PSO5: Understand the continuity and change within the western political traditions.
- PSO6: Critical evaluation of social economic and political variables for a proper understanding of the plurality of Indian society.

Course Outcomes (COs) B.A. in Political Science (2021-2022)

	Course Name	Course Outcomes (COs)
B.A.I	DSC (B4) Paper-I	CO1: Acquire domain Knowledge.
	Introduction to Political	CO2: Understand importance of Political Science.
	Science	CO3: Understand sub disciplines of Political Science.
		CO4: Understand Concept of State and Democracy.
		CO5: Understand Key Concepts of Political Science.
	DSC (B18) Paper-II	CO1: The students will get knowledge about making and
	Indian Constitution	philosophy of Indian Constitution.
		CO2: The students will become aware about Fundamental Rights.
		CO3: The students will become aware about Directive Principles
		and Fundamental Duties.
		CO4: The students will understand about working of Legislature,
		Executive and Judiciary.
		CO5: The students will understand about working and role of
		Judiciary.
B.A.II	DSC (D7) Paper-III	CO1: Understanding the nature and characteristics of Indian
	Political Process in India	Federalism
		CO2: Examining the Institutions of Electoral process in India.
		CO3: Discussing the party System of India.
		CO4: Analyzing the issues in Indian Politics.
	DSC (D8) Paper-IV	CO1: Analyzing the selected thought of Kautilya.
	Indian Political Thought	CO2: Analyzing the selected thought of Mahatma Phule.
	Part -I	CO3: Analyzing the selected thought of Justice M.G. Ranade.
		CO4: Analyzing the selected thought of B.G. Tilak.

	DSC (D35) Paper-V	CO1: Understanding historical background of local self-
	Local Self Government in	government
	Maharashtra	CO2: Examining the institutions of Rural local self-government.
		CO3: Examining the institutions of Urban local self-government.
		CO4: Discussing the constitutional amendments and challenges
		before local self-government.
	DSC (D36) Paper-VI	CO1: Analyzing the selected thought of M. K. Gandhi.
	Indian Political Thought -II	CO2: Analyzing the selected thought of Jawaharlal Nehru.
		CO3: Analyzing the selected thought of Justice Dr. B.R.
		Ambedkar.
		CO4: Analyzing the selected thought of M. N. Roy.
	CGE Paper- I	CO1: Explaining the Nature, scope of Public Administration.
	Public Administration	CO2: Explaining the Principles of Organization.
		CO3: Discussing the Public Corporation.
		CO4: Explaining the Changing perspective in Public
		Administration.
	CGE Paper- II	CO1: Discussing the Personnel Administration.
	Public Administration	CO2: Discussing the Financial Administration, budgetary process
		in
		India and parliamentary financial committee.
		CO3: Discussing Delegated Legislation.
		CO4: Understanding the concepts of good governance, discussing
		right to information.
B.A.III	DSE E-76 Paper No. VII	CO1: Getting basic knowledge of Political Theory.
	Political Theory	CO2: Understanding of approaches to Political Theory.
		CO3: Knowing Behavioral movement in Political Science.
		CO4: Acquiring knowledge about concepts of Power, Authority
		and Legitimacy.
	DSE E-77 Paper No. VIII	CO1: Acquiring information about various concepts in Public
	Public Administration	Administration.

	CO2: Getting knowledge about Organization, its Bases,
	Principles
	and Units.
	CO3: Getting acquainted with the budgetary process in India.
	CO4: Understanding the interface between citizens and Public
	Administration; and other agencies in society and Public
	Administration.
DSE E-78- Paper No. IX	CO1: Getting acquainted with the concepts and dimension of
International Politics	International Politics.
	CO2: To understand main theories of International Politics.
	CO3: To know the working of international and regional
	organizations and the new world order that emerged after
	the end of cold war.
	CO4: To understand India's international influencer aspects.
DSE E-79 Paper No. X	CO1: Students will be familiar with basic theory of Comparative
Comparative Politics	Politics
	CO2: Students be able to understand constitutionalism,
	federalism.
	CO3: Students shall understand party system and pressure groups
	and its functioning.
	CO4: Students shall understand classification of political
	parties and pressure groups.
DSE E-80 Paper No. XI	CO1: Students will get acquainted with the western tradition from
Western Political Thought	Plato to Rousseau
- I	CO2: Students will understand the evolution of western Political
	idea.
	CO3: Students will be able to study historical aspects of western
	state and society.
	CO4: students are expected to develop critical thinking and
	arguments
	from this course.

	DSE E- 201 Paper No. XII	CO1: Student will know modern concepts such as Feminism,
	Modern Political Concepts	Multiculturalism, Environmentalism and Civil Society etc.
		CO2: This will enable students to have comprehensive idea of
		contemporary scenario in political science.
		CO3: To know about new points of view of modern society.
		CO4:To know more about various movements.
	DSE E- 202 Paper NO. XIII	CO1: Student will know the Political System of Maharashtra.
	Politics and Movements in	CO2: They will understand the process of formation of
	Maharashtra	Maharashtra State.
		CO3: Student will know the movements, pressure groups and
		Political Parties in Maharashtra.
		CO4: This will provide comprehensive idea of
		contemporary politics of Maharashtra.
	DSE E- 203 Paper No.	CO1: Student will understand, 'what is Foreign Policy and what
	XIV	are
	Foreign Policy of India	The objectives of Foreign Policy.
		CO2: This will provide comprehensive idea of foundation of
		Indian
		Foreign Policy.
		CO3: Student will come to know India's relation with super
		powers and
		neighboring countries.
		CO4: It will bring attention of the students towards the current
		national
		and international political situation and foreign policy.
	DSE E- 204 Paper No. XV	CO1: To familiarizes students with composition, functions, and
	Comparative Government	law-
	(With special reference to	making process of legislative bodies in UK and USA.
	UK & USA)	CO2: To introduce the students with execution process of laws
		in UK
		and USA.
1		

	CO3: To introduce the Judicial System in UK and USA and
	procedure
	of adjudication.
	CO4: Students will understand the role of Pressure Groups in the
	Politics of UK and USA.
DSE E- 205	CO1: The students will understand Political views of J.S. Mill,
Paper No. XVI	Karl
Western Political Thought-	Marx, Gramsci & Hannah Arendt.
II	CO2: The students will get acquainted with various aspects of
	state
	and society with western perspective.
	CO3: Students will understand important philosophy and
	ideology of
	Political thinkers.
	CO4: To weigh the influence of modern political thinkers on
	Indian
	Society.



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Department of Sociology

Course Outcomes (COs)

Course Outcomes (COs)

B.A. I & II in Sociology

	Course Name	Course Outcomes (COs)
B.A.I	DSC (B2) Paper-I	CO1: Understand Nature of Sociology
	Introduction to Sociology	CO2: Understand Basic Concept in Sociology
		CO3: Understand Social Institutions and their functions
		CO4: Understand Key Concepts Social Groups
	DSC (B16) Paper-II	CO1: The students will knowledge Culture
	Principles of Sociology	CO2: Understand Basic Concept of Socialization
		CO3: Understand Social control
		CO4: The students will understand concept of social change.
B.A.I	Paper-I	CO1: To make acquainted with science
	Scientific Method	CO2: To import value education
	(Compulsory)	CO3: To explain the major teaching principles of causation
		CO4: To discuss the major problem of scientific method
	Paper-II	CO1: Explain the importance of Techniques of Social Research.
	Scientific Method	CO2: Explain the importance of scientific method.
	(Compulsory)	CO3: To create awareness about Science and Technology among
		students with Scientific method.
B.A.II	DSC – D3 Paper No- III	CO1: Understanding social Issues Its Classification and need of
	Social Issues in India	study. CO2: Awareness about Issues related Elderly and
		awareness about
		Female Foeticide.
		CO3: Awareness about Issues of crime and Juvenile Delinquency.
		CO4: Understanding Human Right and cyber-Crime.
	DSC – D4 Paper No- IV	CO1: Understanding of meaning characteristics elements of social
	Social Movement in India	movement.

	CO2: Awareness about peasant problem and its impact.
	CO3: Understanding Dalit movement.
	CO4: Awareness women movement.
DSC – D31 Paper No- V	CO1: Understanding meaning, Nature, and major Gender Issues.
Gender and Violence	CO2: Awareness about Domestic Violence.
	CO3: Understanding about types of violence against women.
	CO4: Awareness about women's Harassment at workplace
DSC – D32 Paper No- VI	CO1: Understanding nature subject matter and importance of
Sociology of Health	sociology of health.
	CO2: Awareness about major diseases in India.
	CO3: Understanding Health Policy in India.



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Department of History

1. History Course -1 Rise of Maratha Power I (DSC-B-1)

After the successful completion of this course students will be able to,

- Co 1: Understand the background of Rise of Maratha Power
- Co 2: Explain the contribution of chhatrapati Shivaji Maharaj in the Treaty of Purander,

Coronation, Expedition to Karnataka

Co 3: Acquaint himself with the contribution of Chh. Sambhaji Maharaj, Chh. Rajaram

Maharaj, Maharani Tarabai in Maratha War of Independence

Co 4: Know the Importance of Sources for understanding Maratha History

2. History Course - 2 Polity, Society & Economy Under the Maratha II (DSC-B-2)

- Co 1: Understand the background of polity under the Maratha Empire
- Co 2: Explain the contribution of chh. Shivaji Maharaj in the Agriculture, Industry and Trade
- Co 3: Acquaint the students with the political, socio-economic and religious life of the people during the 1600-1707 period.

Co 4: Know the Importance of policy and contribution of Shivaji Maharaj

3. History Course - 3 History of Modern Maharashtra (1900-1960) III (DSC-D-1)

- Co 1: Understand the beginnings and growth of nationalism consciousness in Maharashtra
- Co 2: Explain the contribution of Maharashtra to the national movement
- Co 3: Give an account of various movements of the peasants, workers, women and backward classes

Co 4: Know the background and events which led the formation of separate state of Maharashtra

4. History Course - 4 History of India (1757-1857) IV (DSC-B-15)

- Co 1: Acquaint himself with significant events leading to establishment of the rule of East India Company
- Co 2: Know the colonial policy adopted by the company to consolidate its rule in India
- Co 3: Understand the Structure change initiated by colonial role in Indian economy

Co 4: Explain the various against rule of the East India Company

5. History Course - 5 History of Modern Maharashtra (1960-2000) V (DSC-D-29)

- Co 1: Acquaint himself with the contribution of eminet leaders of Maharashtra
- Co 2: Know about the economic transformation of Maharashtra
- Co 3: Understand the salient feature of change in society
- Co 4: Explain the growth of education

6. History Course - 6 History of Freedom Struggle (1757-1857) VI (DSC-B-30)

- Co 1: Understand the events lead to the growth of nationalism in India
- Co 2: Acquaint himself with Major events of the freedom struggle under the leadership of Mahatma Gandhi
- Co 3: Explain the contribution of revolutionaries, Left Movement and Indian National Army
- Co 4: Know the concept of communalism and the causes and effects of the partition of India

7. History Course - 7 Social Reform In India IDS I (DSC)

- Co 1: Understand the salient features of Prominent socio- religious reform movement
- Co 2: Explain the thought and work of Mahatma Phule for radical transformation of Indian society
- Co 3: Know the measures taken by Rajashri Shahu Maharaj for emancipation of lower classes

and women

- Co 4: Understand the thought of Ambedkar on the annihilation of the cast system and untouchability in India
- Co 5: Know how the Indian constitution embodies the values of social justice and equality

8. History Course - 8 Social Reform In Maharashtra IDS II (DSC)

- Co 1: Know about the beginnings of social reform in Maharashtra by the Paramhansa Mandali and Prarthana Samaj
- Co 2: Understand the contribution of women reformrs
- Co 3: Explain the contribution of social reformers in the fight for social justice
- Co 4: Explain the role played by educational reforms in transformation of society



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Department of Commerce

PROGRAMME: B. COM.

PROGRAMME OUTCOME (POs)

- 1. Understand application of knowledge of commerce in business service sector, industry, marketing, finance, entrepreneurship development etc.
- 2. Develop communication skills and computer awareness and practical application of income tax.
- 3. Designed to equip the students for a career in financial analysis, personal financial advisor, consultants etc.
- 4. After completing the Bachelors in Commerce (B. Com.) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.
- 5. The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
- 6. The all-inclusive outlook of the course offers a number of value based and job oriented courses ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

By the end of the programme, the student will be able to

- 1. Understand the basic concepts of the commerce, management, accounting, costing, taxation and economics.
- 2. Analyze relationship among commerce, trade industry, services, management and administration.
- 3. Perform all accounting activities and can handle type of business very well.
- 4. Develop communication skills, computer awareness and rules of income tax act.
- 5. Think about commercial and professional way or point of view.
- 6. Understanding legal issue/ law relating to banking and insurance sector

COURSE OUTCOME (CO)

B.Com. I Semester- I

Course: - Management Functions and Applications Paper-I

- 1. Describe the basic principles and functions of business management.
- 2. Explain basic management concepts, principles and practices.
- 3. Illustrate the Contribution towards development of management theories.
- 4. Elaborate the concepts of Organizing, Direction and Communication.

Course: - Financial Accounting Paper-I

- Adapt basic knowledge about Accounting Concepts and Conventions, Accounting Process, Accounting Standards & IFRS
- 2. Acquaint students with accounting treatment about Amalgamation of Partnership Firms.
- 3. Demonstrate accounting for Consignment Accounts.
- 4. Understand the accounting process of Accounts of Professionals

Course: - Principles of Marketing Paper-I

- 1. Understand the concepts and principles of Marketing.
- 2. Adapt basic knowledge of practical market as well as tools and techniques of marketing to the students.
- 3. Give basic knowledge of 4P's of marketing and retailing.
- 4. Explain marketing research process and marketing information system.

Course: - Insurance Paper-I

- 1. Know the fundamentals of Insurance.
- 2. Understand procedural part and documentation in Life Insurance business and General Insurance business.
- 3. Create awareness among them to become a life Insurance Agent.
- 4. Describe the fundamentals of General Insurance.

Course: - English for Business Communication Paper-I

- 1. The students will be able to acquire communication skills.
- 2. The students will be able to understand human values through poems and prose.
- 3. The students will be able to improve the language and business competence.
- 4. The students will be able to learn how to use English for discussing prices, discount, etc.

Course: - Micro Economics Paper I

- 1. Explain Demand and consumer behavior with indifference curve.
- 2. Analyze importance of demand forecasting in business decision and various methods of demand forecasting.
- 3. Apply firm theories in business situation.
- 4. Explain production cost curves and revenue curves of the firm.

B.Com. I Semester- II

Course: - Management Functions and Applications Paper-II

- 1. Understand the concept of motivation and different theories of motivation.
- 2. Give basic knowledge about the concept of Leadership.
- 3. Describe the different concepts and Techniques of Co-ordination and Control.
- 4. Illustrate the Social and Ethical Issues in Management.

Course: - Financial Accounting Paper-II

- 1. Simulate accounting situations of Single-Entry System.
- 2. Demonstrate accounting for Conversion of Partnership Firm into a Limited Company.
- 3. Acquaint students with accounting treatment regarding Branch Accounts.
- 4. Explain the accounting process Computerized Accounting System.

Course: - Principles of Marketing Paper-II

- 1. Provide basic knowledge of concepts, principles, tools and techniques of marketing.
- 2. Understand the concepts of Consumer Behaviour and Market Selection.
- 3. Describe the Distinguishing characteristics of rural marketing.
- 4. Create awareness among them about recent developments in marketing.

Course: - Insurance Paper-II

- 1. Impart theoretical knowledge of fire insurance.
- 2. Enlighten students with different sides of marine insurance.
- Impart conceptual knowledge of Personal Accident insurance, Health insurance, Motor Insurance and Crop Insurance.
- 4. Acquaint students with the Growth of general insurance business in India.
Course: - English for Business Communication Paper-I

- 1. The students will be able to acquire communication skills.
- 2. The students will be able to understand human values through poems and prose.
- 3. The students will be able to improve the language and business competence.
- 4. The students will be able to speak in English at private sector.

Course: - Micro Economics Paper II

- 1. Explain Equilibrium of firm and industry in short run and long run with measuring producer's surplus under perfect competition.
- 2. Illustrate price determination and price discrimination under monopoly as well as measurement of monopoly power.
- 3. Interpret price war, price leadership and kinky demand curve under Oligopoly market.
- 4. Justify Ricardo's & Modern theory of rent, Money and Real wage and Wage differentials.

B.Com. II Semester- III

Course: - Fundamentals of Entrepreneurship Paper-I

- 1. To impart theoretical knowledge of Entrepreneurship
- 2. To develop Entrepreneurship qualities and skills
- 3. To acquaint students with Steps involved in the formation of Small Enterprises
- 4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Course: - Corporate Accounting Paper-I

- 1. Demonstrate accounting for issue of bonus shares, rights shares and sweat equity.
- 2. Demonstrate accounting for issue of debentures and redemption of debentures.
- 3. Explain the accounting of profit/loss prior to and after incorporation.
- 4. Practice the fundamental accounting process on Tally ERP.

Course: - Business Statistics Paper-I

- 1. To explain the scope of statistics in business and apply sampling techniques in real life.
- 2. To summarize data by means of measures of central tendency and dispersion.
- 3. To explain the merits and demerits of various measures of central tendency and dispersion.
- 4. To carryout analysis of bivariate data using simple correlation and simple linear regression.

Course: - English for Business Communication Paper-III

- 1. The students will be able to describe and recommend sales products.
- 2. The students will be able to narrate function of the product.
- 3. The students will be able to learn how to use English for talking to the customers.
- 4. The students will be able to learn how to use English for discussing prices, discount, etc.

Course: - Macro Economics Paper I

- 1. Explain the relevance of national income, concepts, and its applications in economic policy making.
- 2. Illustrate methods of measuring national income with difficulties and importance.
- 3. Justify Keynesian theory of employment.
- 4. Explain the output and employment generation process through investment and consumption.

Course: - Money and Financial System Paper 1

- 1. Explain functions of money and measurement of money supply.
- 2. Analyse functions of commercial banks and types of banks.
- 3. Interpret changing nature of banking business.
- 4. Identify recent trends in banking system.

B.Com. II Semester- IV

Course: - Fundamentals of Entrepreneurship Paper-II

- 1. To acquaint students with family business in India
- 2. To impart conceptual knowledge of Service and Agro Entrepreneurship
- 3. To aware students about Business Plan and Project Report
- 4. To inspire the students through successful stories of Entrepreneurs

Course: - Corporate Accounting Paper-II

- 1. Demonstrate accounting for redemption of Preference Shares.
- 2. Compute the value of shares as per distinct methods and differentiate between them.
- 3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act, 2013.
- 4. Practice the store accounting through Tally ERP.

Course: - Business Statistics Paper-II

- 1. understand discrete and continuous random variables, their respective probability distributions.
- 2. Identify the applications of Binomial, Poisson and normal distributions.
- 3. Measure trend and seasonal variations in time series data.
- 4. Compute and interpret simple and weighted index numbers.

Course: - English for Business Communication Paper-IV

- 1. The students will be able to describe and recommend sales products.
- 2. The students will be able to narrate function of the product.
- 3. The students will be able to learn how to use English for talking to the customers.
- 4. The students will be able to learn how to use English for discussing prices, discount, etc.

Course: - Macro Economics Paper II

- 1. Apply practical decisions at their business level in future.
- 2. Analyse public finance system of state and its impact on economy.
- 3. Justify the trade and business practices through international trade theories and other relevant concepts.
- 4. Explicate the international monetary exchange system and determination of rate exchange.

Course: - Money and Financial System Paper II

- 1. Apply e banking services.
- 2. Prepare provide consultancy and guidance for investment in financial markets.
- 3. Analyse business practices of NBFCs and AIFIExpected Skills Impartation.
- 4. Identify administrative structure, Functions and Role of NHB and EXIM Bank.

B.Com. III Semester- V

Course: - Business Regulatory Framework Paper -I

- 1. Know the Essential element and Kinds of Contract
- 2. Describe the different labor law.
- 3. Understand the Sale of Goods Act, 1932 and Goods and Services Tax (GST)
- 4. Describe the Indian Partnership Act-1932 and Limited Liability Partnership Act 2008

Course: - Modern Management Practices Paper-I

- 1. Impart knowledge of modern management
- 2. Understand concepts of Customer Relationship Management (CRM)
- 3. Know the concepts of emotional and social intelligence
- 4. Understand the concept of lean and talent management

Course: - Co-operative Development Paper I

- 1. Explain meaning, definition, features, and principals of co-operation.
- 2. Identify agriculture and non-agriculture credit co-operative institutions,
- 3. Analyse types, management, progress, and problems of urban co-operative banks.
- 4. Analyse role and problems of consumer co-operatives as well as sugar co -operatives.

Course: - Business Environment Paper I

- 1. Explain relationship between business environment and sustainable development.
- 2. Justify food security and agriculture renewal action plan.
- 3. Explicate 1991's industrial policy, MSME's, progress of industrial sector in globalization etc.
- 4. Identify problems of Indian economy like as population, unemployment and poverty, inequality of income etc.

Course: - Advanced Accountancy Paper-I

- 1. Practice the preparation of financial statements of banks.
- 2. Demonstrate accounting for farms and hire purchase system.
- 3. Simulate accounting situations of insurance claim.
- 4. Explain the accounting process on Tally with GST.

Course: - Advanced Accountancy Paper-II (Auditing)

- 1. Understand the concept and types of audits
- 2. Identify the residential status and its implication on tax liability
- 3. Understand the concept of exemption from income
- 4. Know the computation of income from various sources as well as total income

Course: - Advanced Costing Paper- I

- 1. Understand the basic concepts of cost accounting.
- 2. Classify the cost and apply the same for cost determination.
- 3. Understand the cost accounting procedure in respect of materials.
- 4. Know the application of cost accounting in determination of labour cost.

Course: - Advanced Costing Paper- II

- 1. Identify the meaning of overheads and its classification
- 2. Understand different methods of absorption of overheads.
- 3. Find out the reasons for difference between profit as per cost and financial accounts.
- 4. Understand meaning of activity-based costing and its practical application.

Course: - Advanced Banking Paper I

- 1. Explain Regulatory Framework for Banking in India.
- 2. Understand the important laws relating banking sector.
- 3. Knowledge of legal provisions for banking business practices.
- 4. Understand different provisions under cyber-Laws.

Course: - Advanced Banking Paper II

- 1. Explain Retail and Corporate Banking systems.
- 2. Understand the Retail and Corporate Banking Practices.
- 3. Apply the knowledge in banking business.
- 4. Analyse differentiates Retail and Corporate Banking.

Course: - Business Regulatory Framework Paper -II

- 1. Develop awareness about the Company Act- 2013
- Understand the Security Exchange Board of India Act-1992, Consumer Protection Act-1986 and Competition Act-2002
- 3. Apply the practical aspects of Business Transactions and Cyber Laws
- 4. Impart knowledge of Negotiable Instrument

Course: - Modern Management Practices Paper-II

- 1. Impart knowledge of total quality management.
- 2. Understand the Japanese and Chinese Management Practices
- 3. Know the concept of Event and Performance Management
- 4. Understand the concept of time and stress management

Course: - Co - operative Development Paper II

- 1. Illustrate cooperative legislations and fund management.
- 2. Interpret institutional arrangement for cooperative education and training.
- 3. Clarify nature and elements of audit of co-operative housing societies.
- 4. Analyse responsibilities and powers of cooperative auditor.

Course: - Business Environment Paper II

- 1. Explain implementation and impact of Liberalization, Privatization and Globalization on Indian Economy.
- 2. Justify economic planning and service sector in India.
- 3. Identify relationship between Indian rupee and foreign currency with multinational corporations.
- 4. Extend objectives and performance of IMF, IBRD, WTO and SAARC.

Course: - Advanced Accountancy Paper-III

- 1. Practice the preparation of cost sheet.
- 2. Demonstrate accounting for financial statement analysis and ratio analysis.
- 3. Understand and Practice the preparation of cash flow statement.
- 4. Explain the accounting process on Tally with GST.

Course: - Advanced Accountancy Paper-IV (Taxation)

- 1. Understand the basic concepts of income tax and basis of charge.
- 2. Identify the residential status and its implication on tax liability.
- 3. Understand the manner of computation of total income.
- 4. Know the basic concepts about GST.

Course: - Advanced Costing Paper- III

- 1. Understand the concepts of job and unit costing.
- 2. Know the applications of process costing and joint product and by product accounting.
- 3. Understand procedure of contract costing and its practical implementation
- 4. Identify meaning of service costing and its application.

Course: - Advanced Costing Paper- IV

- 1. Know the applications of marginal costing in decision making.
- 2. Understand the concept of standard costing and analysis of variances.
- 3. Know the concept and types of budgets and concept of budgetary control.
- 4. Understand prospects of cost accounting standards.

Course: - Advanced Banking Paper III

- 1. Explain the Importance of Head Office of the Bank.
- 2. Understand the Structure of Branch Office Small and Medium Bank Branch.
- 3. Understand the Structure of Branch Office Large Bank Branch.
- 4. Explain Nature and Importance of Information and System Audit of the Banks.

Course: - Advanced Banking Paper IV

- 1. Understand the nature and structure of Financial Market in India.
- 2. Understand business practices in money market.
- 3. Understand business practices in capital market.
- 4. Understand functioning of different Intermediaries in Financial Markets.



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COURSE SPECIFIC OUTCOMES

Hindi Department

1. Paper VII/XII (विधा विशेष का अध्ययन)

- 1. छात्रों में मानवीय मूल्यों को ववकसित करने में सहायक ।
- 2. छात्रों में लेखन की तकनीक में सहायक ।
- 3. छात्रों में संवाद कौशल्य ववकसित करने में सहायक ।

2. Paper VIII/XIII (साहित्यशास्त्र)

- 1. साहित्यिक सिद्दांतो की जानकारी प्राप्त करने में सहायक ।
- 2. साहित्यिक आलोचना प्रववध् ववकसित करने में उपयुक्त ।
- 3. साहित्यिक विधाओं का पररचय कराने में उपयुक्त ।

3. Paper IX/XIV (हिंदी साहित्य का इतिहास)

- 1. हिंदी साहित्य का उदभव एवं विकास की प्रक्रिया जानने में सहायक ।
- 2. मानवीय मूल्यों को ववकसित करने में सहायक ।
- 3. प्राचीन कववयों से लेकर आधुनिक कववयों का पररचय कराने में उपयुक्त ।

4. Paper X/XV (प्रयोजन मूलक हिंदी)

- 1. हिंदी भाषा का व्यवहार में प्रयोजन कराने में सहायक ।
- 2. रोजगार के अविरो की जानकारी देने में उपयुक्त ।
- 3. रोजगार संबंधी कौशल्य निर्माण में सहायक ।

5. Paper XI/XVI (भाषाविज्ञान)

- 1. हिंदी भावषक का उदभव एवं विकास की प्रक्रिया समझने में सहायक ।
- 2. हिंदी भावषक कौशल्य तथा व्याकरण की जानकारी देने में उपयुक्त ।
- 3. भावषक अंगो का विकास करने में उपयुक्त ।



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A. COURSE SPECIFIC OUTCOMES:

B.A.-III Sub- Kannada Sem-v (Paper-VII)

- 1) The History of ancient Kannada Literature
- 2) Get acquainted pre-old Kannada and medieval Kannada literature.
- 3) Get acquainted characteristics and origination from pre-old Kannada literature and medieval Kannada literature.
- 4) Learn about different forms of Kannada literature

B.A.-III Sub- Kannada Sem-v (Paper-VIII)

- 1) Get acquainted about Indian poetry and it's History.
- 2) To realized Kavya swarup, Lakshana and Prayojanagalu (Benefits)
- 3) Get acquainted about Dhwani siddhant (Sound Theory) and Ras siddhant (Ras Theory)
- 4) To learn about Alankaragalu.

B.A.-III Sub- Kannada Sem-v (Paper-IX)

- 1) Students leraned the method of reading from old kannada literature
- 2) Studied the poets and works in old kannada literature.
- 3) To Know the champa literary features were realized.
- 4) To Know Pamp Bharat, Patra Chitran and language style

B.A.-III Sub- Kannada Sem-v (Paper-X)

- 1) To Introduction of kannada Grammer of Keshirajan Period.
- 2) To acquaint Sanghya Prakaran, Sandhi Prakaran, Samas Prakaran and Nam Prakaran
- 3) Different Communication skills were learned.

B.A.-III Sub- Kannada Sem-v (Paper-XI)

- 1) Students became interested in folk culture
- 2) Learn about different genres of folk literature.
- 3) To Encouraged to collect local folklore.

B.A.-III Sub- Kannada Sem-VI (Paper-XII)

1) Acquainted about Origin of New kannada literature and It's

2) Known about periods of new kannada an literature.

3) Get acquainted writers from new kannada and works.

B.A.-III Sub- Kannada Sem-VI (Paper-XIII)

1) Understood about Poetry and theories of various scholarly

- 2) Understood about Rudranatakad Vishay vastu and language style
- 3) Get acquainted about various types of chandassu

B.A.-III Sub- Kannada Sem-VI (Paper-XIV)

- 1) Known about various generes of mediaeval kannada literature.
- 2) Known about social parody in the sarvadhyan vachanagalu 3) Known about kirtan sahitya, Bhakti, Tatwa and literature values.

B.A.-III Sub- Kannada Sem-VI (Paper-XV)

1) Get acquainted about origin of kannada language and Its development

- 2) personality evolves through different language case.
- (3) Known kannada language species.

B.A.-III Sub- Kannada Sem-VI (Paper-XVI)

1) known the history of folk literature

- 2) Introduced various generes of folk literature
- 3) Study about selected folklore story.

B.A.-II Sub- Kannada Sem-III (Paper-III)

- 1. The History of Medieval Kannada Literature
- 2. Get acquainted Medieval Kannada Literature.
- 3. Get acquainted characteristics and origination from Medieval Kannada Literature.
- 4. Learn about different from of kannada literature.

B.A.-II Sub- Kannada Sem-III (Paper-IV)

- 1) The History of modern Kannada Poetry.
- 2) Get acquainted modern Kannada Poetry.
- 3) Get acquainted characteristics and origination from modern Kannada Poetry.
- 4) Learn about different from of kannada Poetry.

B.A.-II Sub-Kannada Sem-IV (Paper-V)

- 1. Student Learned Modern Kannada Literature
- 2. Student Studies Kannada drama as a form of Literature.
- 3. Students to Know literary Competence.

B.A.-II Sub- Kannada Sem-IV (Paper-VI)

- 1. Student to Learn Modern Kannada Literature
- 2. Students to Know Kannada artical as a form of Literature with reference to the text Prescribed.
- 3. Students to get literary Competence.



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COURSE SPECIFIC OUTCOMES

Marathi Department

- १. मराठी भाषेचा व्यावहाररक जीवनामध्ये उपयोग होईल.
- २. प्रमाणभाषेच्या उपयोजनाची क्षेत्रे व रूपे यांची ओळखहोईल.
- ३. साहित्याची आकलन, आस्वाद आणण मूल्यमापनाची क्षमता ववकसित करण्यास मदत होईल.
- ४. साहित्याची समीक्षात्मक दृष्टी ववकसित होईल.
- ५. मराठी साहित्याच्या इतिहासाद्वारे विद्यार्थ्यांना साहित्याचा विकासात्मक परिचय होईल.
- ६. मराठी भाषेच्या देवनागरी सलपीचा विकासात्मक परिचय होईल.
- ७. मराठी भाषेचे शुद्लेखन आणि मुद्रित शोधन यासंबंधीच्या नियमांचा परिचय होईल.
- ८. भाषेच्या विविध कौशल्यांचा परिचय होण्यास मदत होईल.
- ९. मराठी भाषेच्या वाङ्मयीन परंपरेचा विकास समजण्यास मदत होईल.



|| Dhairyam Sarvatra Sadhanam || Shri Shivalingeshwar Shikshan Sanstha's Sankh Shri.R.K.Patil Arts, Commerce and Science College, Sankh. Tal.Jath, Dist.Sangli. 416 412. College Code : 616 Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4) PH : 02344-299127. Mob. : (O) 7448000616.

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Department of Chemistry

Program Outcomes:

- PO-1:- Student will gain fundamental knowledge of chemistry which will help the for PG studies and Research
- PO-2:- Student will be able to know good laboratory practices and lab safety.
- PO-3:- To make the learner proficient in analyzing the various observations and chemical phenomena presented to him during the course.
- PO-4:- Students will be able to apply the fundamental knowledge to address the cross-cutting issues such as sustainable development
- PO-5:- Students will be able to solve various problems by identifying the essential parts of a problem, formulate strategy for solving the problem, applying appropriate techniques to arrive at a solution, test the precision and accuracy of the solution and interpret the results.
- PO-6:- Students will be able to communicate effectively i.e. being able to articulate, comprehend and write effective reports, make effective presentations and documentation and capable of expressing the subject through technical writing as well as through oral presentation.

Program Specific Outcomes:

- PSO-1:- Students will be able to explain fundamental concepts of inorganic, physical, organic, industrial and analytical chemistry.
- PSO-2. Identify chemical formulae and solve numerical problems.
- PSO-3. Students can use modern chemical tools, Models, Charts and Equipments.
- PSO-4. Students will be able to prepare and qualify for competitive examinations
- PSO-5. Students will understand good laboratory practices and safety.

PSO-6. Students will develop research oriented skills.

Course Out comes

Course Outcomes			
B. Sc. I (NEP-2020) Semester I			
Course	Outcomes		
	After completion of these courses, students should be able		
DSC-3A Paper I	to,		
(Inorganic Chemistry)	 CO-1: To learn and understand introductory inorganic chemistry. To understand size, shape and electron distribution in shells and sub- shells of an atom. CO-2: To learn different types of bonds and nature of bonding in inorganic compounds. Calculations of different energies associated with ionic bonding. CO-3: Knowledge of nature of bonding, geometry, stability, and magnetic characters of covalent compounds by applying VBT. CO-4: Understanding of role of acids and bases in chemistry. The study is useful in all chemical areas. CO-4: To learn and understand the properties and uses of the compounds of p-block elements. 		
DSE-4A Paper II, (Organic Chemistry)	 CO-1: To understand the fundamentals and basic principles involved in organic chemistry CO-2: Toknow the spatial arrangement of atoms of organic molecule and types of stereoisomers. CO-3: To learn general properties and fundamental reactions of aromatic compounds. CO-4: To understand the basic knowledge, method of preparation and reactions of heterocyclic compounds namely Pyrrole and Pyridine. 		

Course Outcomes B. Sc. I (NEP-2020) Semester II			
Course	Outcomes		
	After completion of these courses, students should be able		
DSC-2B· Paper -III	to.		
(Physical Chemistry)	 10, CO-1: To understand basic concepts and rules of logarithms, graphs, derivative and integrations. CO-2: To gain Knowledge and coherent understanding of basic concepts in thermodynamics CO-3: To understand basic concepts in kinetics and first order, second order reactions with characteristics and suitable examples. CO-4: To know the terms such as surface tension, viscosity and refractive index with suitable examples. CO-5: To learn of basic concepts in electrochemistry, conductors and conductivity cells, measurement of conductance with suitable examples and numerical problems. 		
	problems.		
DSC-4B: Paper-IV, (Analytical Chemistry)	CO-1: To learn various analytical procedures, sampling, accuracy and precision CO-2: Toknown difference between classical and industrial chemistry, concentration terms and IPR CO-3: To know terms involved in chromatographic separation techniques CO-4: To understand various type of titrations, neutralization curves, indicators used in various titrations CO-5: To know about the chemical nature and cleansing action of soap		
Course Outcomes B. S	c. I (Chemistry Practical)		
Course	Outcomes		
Laboratory practical	After completion of these courses, students should be able		
	to , CO-1: To learn preparation of standard solution. CO-2: To determine percentage purity of the given sample. CO-3: To learn separation and identification of different cations by Paper Chromatographic technique. CO-4: Organic estimations such as acetone, Vitamin-C and ester. CO-5: Identification of organic compounds including acids, bases, phenols and neutrals. CO-6: Estimation of Aniline, Acetamide, Aspirin Tablet		

	CO-7 : To learn kinetics of reaction.			
	CO-8 : To determine viscosity of given liquids			
	CO-9: To determine the equivalent weight of Magnesium.			
Course Outcomes B. S	c. II (Chemistry)			
Semester-III				
Course	Outcomes			
	After completion of these courses, students should be able			
DSC-3C: Paper V	to,			
(Physical	CO-1: Understand the concept of conductivity and transport			
Chemistry)	number of the aqueous solutions with different applications.			
0 -	CO-2: Gain knowledge of basic concepts in thermodynamics			
	and concept of Entropy			
	CO-3: Learn and understand third order reaction and			
	methods for determination of order of reactions and			
	numerical problems.			
	CO-4: Study the behavior of gases, ideal gas as model system			
	and its extension to real gases.			
	CO-5: Study the concepts such as adsorption phenomenon.			
	dynamic nature of surface and its applications.			
DSC-4C: Paper VI	CO-1: Study the basic concepts in gravimetric analysis			
(Analytical	CO-2: Learn the different water analysis techniques			
Chemistry)	CO-3: Understand basic principle of corrosion and			
	electroplating.			
	CO-4: Study the column and ion exchange chromatography			
	CO-5: Understand of working of petroleum industries.			
	biofuels, copyrights and trademarks			
Course Outcomes B. S	c. II (Chemistry)			
Semester-IV				
Course	Outcomes			
	After completion of these courses, students should be able			
DSC-D3- Paper No.	to,			
VII (Inorganic	CO-1: Understand the basic concepts of coordination			
Chemistry)	chemistry.			
	CO-2: Study the concept of chelate formation			
	CO-3: Understand the properties of elements of 3d series.			
	CO-4: Know the properties of 4f elements.			
	CO-5: Learn the basic knowledge about inorganic semi-			
	micro analysis.			
DSC- D4 - Paper No.	CO-1: Learn about the synthesis, reactivity and applications			
VIII	of			
(Organic Chemistry)	carboxylic acids.			

	 CO-2: Study about classification, preparation and applications of amines and diazonium salts. CO-3: Understand the classification, configuration and structure of carbohydrates. CO-4: Understand the nomenclature and reactivity of aldehydes and ketones. CO-5: Study the basic knowledge conformational analysis of organic compound.
Course Outcomes B. S	Sc. II (Chemistry Practical)
Course Laboratory practical	Outcomes After completion of these courses, students should be able to,
	 CO-1: Identification of organic compounds including acids, bases, phenols and neutrals. CO-2: Preparation of organic compounds and their purification. CO-3: Organic estimations such as acetone, Vitamin-C and ester. CO-4: Separation, identification and determination of R_f values using TLC. CO-5: Understand the gravimetric analysis of Fe and Ba. CO-6: Preparation of inorganic complexes. CO-7: Able to find out the unknown concentration by performing titration. CO-8: Understand semimicro analysis. CO-9: Study the chemical kinetics of hydrolysis of ester. CO-10: Illustrate the experiment of instrumental methods such as conductometry, refractometry, polarimetry etc. CO-11: Able to measure viscosities of different liquids.

Course Outcomes B.S Semester-V	c. III (Chemistry)				
Course	Outcomes				
	After completion of these courses, students should be able				
Paper No. IX (Inorganic Chemistry)	to, CO-1: Study the theoretical concepts of hard and soft acids and bases. CO-2: Understand the metal ligand bonding in transition metal complexes. CO-3: Study basic concepts and classification of inorganic polymers. CO-4: Study classification of conductors, insulators and semiconductor CO-5: Study synthesis and structures of organometallic compounds.				
Paper No. X (Organic Chemistry)	CO-1: Study the basic concept of spectroscopy. CO-2: Understand factors affecting UV-absorption spectra. CO-3: Understand factors affecting on vibrational frequency. CO-4: Interpret IR-spectra on basic values of IR-frequencies. CO-5: Learn basic principle of NMR spectroscopy, chemical shift, shielding and deshielding. CO-5: Study instrumentation of mass spectrometry, and fragmentation pattern. CO-7: Solve the combined problem of UV, IR, and NMR.				
Paper No. XI (Physical Chemistry)	CO-1: Learn and understand quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators (Hamiltonian), learning of Schrodinger wave equation. Physical interpretation of the ψ and ψ^2 . Particle in a one dimensional box CO-2: Gain Knowledge about spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules: Rigid rotor model, Microwave oven, vibrational spectra of diatomic molecules, simple Harmonic oscillator model, Raman spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules, related knowledge will be gained by the students. CO-3: Learn and understand photochemical laws, reactions and various photochemical phenomena.				

	CO-4: Learn the various types of solutions, vapour pressure, temperature relations. CO5: Learn and understand the knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements.
Paper No. XII (Analytical Chemistry)	CO-1: Understand the basic concepts of Gravimetric Analysis and learns different types of precipitations. CO-2: Understand the flame photometry and its applications and limitations. CO-3: Understand the theory of colorimetry, applications of colorimetry and spectrophotometry CO-4: Understand the different types of electrodes, titrations and their applications CO-5: Understand the different types of chromatographic techniques and their applications
Course Outcomes B.S Semester-VI	c. (Chemistry)
Course	Outcomes
	After completion of these courses, students should be able
Paper No. XIII (Inorganic Chemistry)	to, CO-1: Understand the thermodynamic and kinetic aspects of metal complexes.
	CO-2: Study the nuclear reactions and role of radio isotopes. CO-3: Understand properties and classification of lanthanides an actinides. CO-4: Study techniques involves in extraction of iron from its ore. CO-5: Understand role of metals and non-metals in our health.
Paper No. XIV	 CO-2: Study the nuclear reactions and role of radio isotopes. CO-3: Understand properties and classification of lanthanides an actinides. CO-4: Study techniques involves in extraction of iron from its ore. CO-5: Understand role of metals and non-metals in our health. CO-1: Study the various Name reaction and reagents with examples.

CO-7: Learn different types of drugs and their synthesis and
uses.
CO-1: Learn and understand phase rule, Learn and understand One component, Two component and Three componentsystemsphasediagramswithsuitableexamples. CO-2: Gain Knowledge about basic concept of Thermodyanamics, free energy, Gibbs-Helmholtz equation and its applications, Able to solve problem related with it. CO-3: Understand basic concept of solid state chemistry, learn basic terms, Laws of crystallography, learn crystal structure analysis using X-rays CO-4: Understand kinetics of Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions: iv) chain reaction v) explosive reaction CO-5: Learn and understand the knowledge of distribution law, its modifications, applications of distribution laws,
process of extraction, determination of solubility,
CO-1: Understand the methods of manufacturing of sugar
CO-2: Understand the mechanism of manufacture of
industrial heavy chemicals. CO-3: Understand the different types of polymers and their applications
application of petrochemicals.
CO-5: Understand the different methods for nonmaterial preparations and their applications.
I
c.III (Chemistry Practical)
Outcomes
After completion of these courses, students should be able
to,
CO-1: Understand the gravimetric estimation such as Fe, Ba, Ni. CO-2: Study different types of inorganic preparations. CO-3: Understand titration and percentage purity of different types of solutions CO-4: Separation of binary mixture and identification of individual compound.

CO-5:	Preparation	of	organic	compounds	and	their
purifica	ation.					
CO-6: I	Preparation of	orga	anic deriva	atives.		
CO-7: 0	Organic estim	atio	n			
CO-8:	Understand	the	e kinetio	e reactions	and	their
mecha	nisms, energy	ofa	ctivation,	partial molar	volur	ne.
CO-9:1	Understand di	iffer	ent instru	ments such a	s p H M	/leter,
potenti	ometer, refra	ctor	neter etc.		-	
-	·					



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Department of Physics

B.Sc. (Physics)

Program Outcomes:

- 1. Apply the basic principles of Physics to the events occurring around us and also in the world.
- 2. Design and carry out experiments to understand the laws and basic concepts in science.
- 3. To acquire a wide range of problem-solving skills, both analytical as well as technical and to apply them.
- 4. To enhance the student's academic abilities, personal qualities, and transferable skills will allow them to develop as responsible citizens.
- 5. Develop a sense of research to predict cause-and-effect relationships.
- 6. Involve in independent and lifelong learning.

Program Specific Outcomes:

- 1. To understand the basic laws and explore the fundamental concepts of Physics.
- 2. Gain a wide spectrum of skills that will enable them to solve theoretical and experimental problems.
- 3. Acquire the skill to gauge the physical properties of materials.
- 4. Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics.
- 5. Apply and verify theoretical concepts through laboratory experiments.
- 6. Illustrate the principles of electricity, magnetism, thermodynamics, optics and spectroscopy

Shivaji University, Kolhapur

COURSE OUTCOME			
SEMESTER-I			
Course Code	Part	Course Outcome	
DSC A1	Mechanics-I	 Students are able to understand and identify scalar and vector physical quantities apply vector algebraic methods to elementary exercises in mechanics Students are able to solve second order, homogenous ordinary differential equations in mechanics Students are able to understand the conceptual evolution of conservation laws of momentum and energy for both single and system of particles In general, students are capable of correlating above concepts and methods in mechanics to both theoretical and experimental domains revealing analytical as well as numerical skills 	
DSC A2	Mechanics-II	 Students are able to understand and apply Newton's Law of Gravitation to celestial objects and geometry of planetary orbits under the action of central force. Students are able to solve numerical problems based on Kepler's Laws of planetary motion and understand simple concepts like weightlessness, Geosynchronous satellite and GPS Students are able to setup differential equation for simple harmonic motion and its allied cases 	

B.Sc. Part-I Physics Syllabus (NEP-2020) with effect from August, 2022

		Students are able to derive elastic constants for	
		beam supported at both ends and at one end and	
		also able to explain the phenomenon of surface	
		tension on the basis of molecular forces	
		SEMESTER II	
1. Students are able to understand the ph			
		significance of gradient, divergence and curl	
		2. Students are able to apply concepts in vector calculus	
		such as gradient, divergence and curl related to vector	
		and scalar fields using Gauss, Stokes and green`s	
	Electricity	theorem	
DSC B1	and	3. Students are able to understand and apply concepts of	
	Magnetism-I	electrostatic field, potential to point charges, electric	
		dipole and geometrically regular charged bodies	
		4. Students are able to understand and apply concept of	
		capacitor to isolated conductor, parallel plates,	
		cylindrical and spherical capacitors and allied	
		modifications in it, energy density in electric field and	
		solve numerical exercise in electrostatics	
		1. Students are able to understand importance of	
		complex numbers in analysis of AC Circuits contacting	
	F]''-	Inductance(L) Capacitor(C) and Resistance (R) and	
DSC B2	Electricity	their various configurations	
	and	2. Students are able to define and apply the concepts in	
	Magnetism-II	AC circuits such as Impedance (Z), reactance (XC and	
		XL), Admittance, Susceptance and Quality Factor (Q)	
		3. Students are able to understand and design AC	
		bridge: Owen`s Bridge and understand basic working	
		principle of Ballistic galvanometer	

		4. Students reveal mastery in basic terminology in
		network analysis for further studies and apply
		Network theorems to simple circuits
		1 Students are able to derive elastic constants for beam
		supported at both ends and at one end
		2 Students are able to derive elastic constant (eta) of a
		wire under torsional oscillations (Searle's Method)
		3. Students are able to explain the phenomenon of
		surface tension on the basis of molecular forces
		4 Students are able to derive the relation between
		surface tonsion and excess pressure
DSC A	LAB:	E Students are able to perform an experiment to
	MECHANICS	5. Students are able to perform an experiment to
		determine ST by Jaeger's method
		6. Students are able to discuss and state the
		factors affecting the ST
		7. In general, students are capable of correlating
		above concepts and methods to both
		theoretical and experimental domains
		revealing analytical as well as numerical skills
		1. In general, students are capable of applying above
		concepts in network analysis to both theoretical and
DSC B		experimental domains
	LAB	2. Students are able to understand simple elementary
	ELECTRICITY	concepts such as magnetization and intensity of
	AND	magnetization
	MAGNETISM	3. Students are able to state Biot-Savart's law and are
		capable to apply it to straight, circular wires and
		solenoid
		4. Students are able to understand concept of magnetic

		vector potential along with Ampere`s circuital law		
		5. Students are able to understand the explain the		
		phenomenon of hysteresis in magnetism		
		6. Students are able to discriminate different magnetic		
		materials based on their characteristic properties		
		D Sc. II		
		D.3C11		
		SEMESTER III		
	(Thermal	1. Know the Zeroth Law, First Law, Second Law and		
	Physics and	Third Law of Thermodynamics.		
	Statistical	2. Describe various types of Thermometers.		
DSC-C1	Mechanics - I	3. State the nature of heat transfer, transport		
		phenomena in gases behavior of gases ate different		
		temperatures.		
		4. Apply the thermodynamics laws for practical use		
	Waves and	1. Assess fluctuations and acoustic process in nature		
	Optics -I	and technology in various forms.		
		2. Analyse the mechanism and the machinery noise		
DSC-C2		levels.		
050 02		3. Distinguish between different sounds and noise levels		
		in the environment.		
		4. Solve the numerical on sound and acoustics, viscosity		
		and low pressure		
	SEMESTER IV			
	Thermal	1. Describe various thermodynamic potentials.		
	Physics and	2. Know different theories of radiation.		
DSC-D1	Statistical	3. Know the Classical Statistics and Quantum Statistics.		
	Mechanics - I	4. Solve the numerical problems using mathematical tools		

DSC- D2	Waves and	1.	Explain the phenomenon of interference, diffraction
	Optics -I		and polarization.
		2.	Interpret wavelength, resolving power and specific
			rotation.
		3.	Calculate wavelength of unknown sources.
		4.	Understand various applications of the light waves
		1.	To study the various properties of thermal physics
			like thermal conductivity.
	B.Sc. Part II	2.	To study the working of various thermometers.
	PHYSICS LAB	3.	To study the temperature coefficient of resistance by
Group I, II, III	Experiments		various methods.
	(DSC C1, C2,	4.	To understand the mechanical equivalent of heat
and IV	D1, D2 Paper		through an experiment.
	V, VI, VII,	5.	To study the motion of coupled oscillation, coefficient
	VIII)		of viscosity,
		6.	To study the optical properties using different
			instruments.
			B.ScIII
			SEMESTER V
		1.	Acquire knowledge of methods to solve partial
			differential equations with examples of important
			partial differential equations in Physics.
		2.	Apply the special functions, such as the Hermite
DSE-E1	Mathematical		polynomial, the Legendre polynomial, the Laguerre
	Physics		polynomial and Bessel functions and their differential
			equations and their applications in various physical
			problems
		3.	Use the beta, gamma and error functions in doing
			integrations.

	4. Understand maths of complex numbers and
	application of Cauchy-Riemann Equations.
	1. Describe de Broglie's hypothesis of matter waves,
	Davisson–Germer experiment.
Quantum Mechanics	2. Apply the knowledge of basic quantum mechanics, to
	set up one-dimensional Schrodinger's wave equation
	and its application to a matter wave system.
	3. Understand the Schroedinger wave mechanics and
	operator formalism.
	4. Solve the Schroedinger equation for simple 1D time-
	independent potentials
	1. Apply Lagrangian methods to solve for the motion of
	rigid bodies.
Classical	2. Apply the calculus of variations to solve minimization
Mechanics	problems and knowledge of the formulation of
and Classical	dynamics in terms of a variational principle.
Electrodyna	3. Explain the fundamental concepts of special relativity
mics	and how to perform Lorentz transformations.
	4. Solve the problems based on the motion of a charged
	particle in the presence of a uniform electromagnetic
	field.
	1. Analyse different types of digital electronic circuits
	using various tools and know the techniques to
Digital and	prepare the most simplified circuit using various
Analog	methods.
Circuits and	2. Explain the principles of oscillation and design
instrumentat	various oscillator circuits.
ion	3. Acquire the skill in using CRO for various physical
	measurements.
	4. Demonstrate knowledge of analog electrical devices,
	Quantum Mechanics Classical Mechanics and Classical Electrodyna mics Digital and Analog Circuits and nstrumentat ion

		wantinglander an analian all annulifiana and thair
		particularly operational amplifiers and their
		applications.
		1. Impart knowledge about basic nuclear physics
		properties and nuclear models for the understanding
		of related reaction dynamics.
		2. Explain how energy and other properties of
DSE-F1	Nuclear and	accelerated particle beams are measured.
	Particle	3. Describe the properties of radiation used for
	Physics	detection and the parameters that affect the
		precision, efficiency, and sensitivity of the
		measurement.
		4. Explain the interaction between elementary particles
		and their classification.
		1. Explain the Crystal systems. Crystal planes and
		directions and Miller indices
DSE-F2		2 Describe Bragg's Law and its relation to crystal
	Solid State	ctructure
	Physics	2 Illustrate the Characteristic features of various times
		of magnetic materials
		A Demonstrate on in death understanding of the band
		4. Demonstrate an in-depth understanding of the band
		structure of solids.
DSE-F3		1. Explain the change in behaviour of atoms in an
	Atomic and	externally applied electric and magnetic field.
	Atomic and	2. Understand the molecular spectra and find molecular
	Molecular	properties from molecular spectra.
	Physics and	3. Interpret the rotational and vibrational Raman
	Astrophysics	Spectra.
		4. Acquire knowledge stellar evolution of a small and
		massive star, pulsars, neutron star and black holes.
DSE-F4	Energy	1. Analyse the viability of wind and alternative energy
	1	

	Studies and	projects.
	Materials	2. Explain the field applications of solar energy.
	Science	3. Describe the biogas generation and its impact on the
		environment.
		4. Explain the phenomenon of superconductors and its
		various applications.
B.Sc. Part III	Physics	1. To study the various kind of motion through an
	Laboratory	experiment
	Experiments	2. To study the elasticity, surface tension, oscillation
		through an experiment
		3. To study the interaction of light with material
		medium and its properties
		4. To empower the student to understand the different
		aspect of electricity and magnetism.
		5. To understand the basic electronics and its
		application in daily use.
		6. To test the skill of various aspect of experimental
		physics.



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Department of Zoology B.Sc. (Zoology)

Program Outcomes:

On completion of this course a Graduate student should be able to:

- 1. Analyze interactions among the various animals of different phyla, their distribution and their relationship with the environment.
- 2. Understand the basic concepts about chordates and non-chordates, external morphology and understand the various systems.
- 3. Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- 4. To study of developmental of animal and understand the physiological processes of animals and relationship of organ systems.
- 5. Understands about various concepts of genetics, molecular biology and its importance in human health and study of insect vectors.
- 6. Gain knowledge of Agro based Small Scale industries like sericulture, apiculture, fish farming, aquaculture, dairy farming and vermicompost preparation.

Program Specific Outcomes:

- 1. Understand the biological diversity and grades of complexity of various animal forms through their systematic classification and comparative structural studies.
- 2. Understand the nature and basic concepts of developmental biology, genetics, taxonomy, applied Zoology and Biostatistics.
- 3. Explain the molecular and cellular basis of physiological functions in animals.
- 4. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Developmental biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.
- 5. Recognized the relationship between structure and functions at different levels of biological organization (e. g. Cells Organs, Organisms and Species) for the major group of animal.
- 6. Understand the applications of biological sciences in apiculture, aquaculture, agriculture, dairy farming and medicine.

Course Outcomes:

B. Sc – I (Semester – I)

Zoology Paper - I (DSC-15A Animal Diversity - I)

- 1. State the animal classification and list the various animals in a given phylum.
- 2. Comment on the modifications of common animal forms of the groups studied.
- 3. Enlist the examples of the phylum studied.
- 4. Students will be able to evaluate animals according to the level of organization, body plan, symmetry, germ layers, coelom development etc.

Zoology Paper - II (DSC-16A Cell Biology and Evolutionary Biology)

- 1. Understand the concept of a cell and study ultrastructure of prokaryotic and eukaryotic cell.
- 2. Describe the structure and functions of cell organelles.
- 3. Describe the concept of origin of life and understanding on the process and theories in evolutionary biology.
- 4. To study the distribution of animals on earth, its pattern, evolution and causative factors.

Semester - II

Zoology Paper - III (DSC-15B Animal Diversity and Insect Vector)

- 1. To study the morphology and various systems in rat.
- 2. To study mosquito born diseases with respect to their caused organism.
- 3. To study Housefly born diseases with respect to their caused organism.
- 4. To study Flea born diseases with respect to their caused organism.

Zoology Paper - IV (DSC-16B Genetics)

- 1. Explain Mendel's principle, its extension and chromosomal basis and determination of gene action from genotype to phenotype and concepts of inheritance.
- 2. Discuss Linkage, crossing Over and Sex Determination with their types and significance.
- 3. Explain the concept of mendelian genetics, gene, gene regulation and multiple alleles.
- 4. Identify genetic disorders based on karyotypes and traits.

Zoology Practical's (DSC-15A, B and 16A, B)

- 1. Identify various animals based on morphological features.
- 2. Identify the blood group in human and prepare blood smear and identify the various cells.
- 3. Stained preparation of mitochondria from oral mucosa by using Janus Green-B.
- 4. Explain the evidences of evolution.
- 5. Demonstration of Digestive system, Lungs, Heart, Kidney, Testis, Ovary and Brain of rat.
- 6. Explain the transmission cycles of pathogens vectored by major arthropod vectors including mosquitoes, Housefly and Flea.

B. Sc – II (Semester – III)

Zoology Paper - V (DSC Animal Diversity - II)

- 1. To study general characters and Classification of Protochordates, Agnatha and Pisces.
- 2. To study the general characters and various systems in frog.
- 3. To study general characters and Classification of Reptiles (Venomous and non-venomous snakes).
- 4. To write down general characters and classification of Aves and mammals.

Zoology Paper - VI (DSC Biochemistry)

- 1. To study the overall concept of cellular metabolism.
- 2. Explain the pathways of glucose breakdown and synthesis and their regulation.
- 3. Describe HMP-pathways and gluconeogenesis.
- 4. Describe the general properties and classification of enzymes.

Semester – IV

Zoology Paper - VII (DSC Reproductive Biology)

- 1. Understand the structure and hormone of pituitary gland.
- 2. Describe the female reproductive anatomies and explain how the embryo forms from the zygote and foetal development during the three trimesters of gestation.
- 3. Explain the roles played by the male reproductive tract and accessory glands in the functional maturation, nourishment, storage, and transport of sperm.
- 4. To study causes diagnosis and management of infertility in male and female.

Zoology Paper - VIII (DSC Applied Zoology - I)

- 1. Knowledge of some parasitic diseases that could be transmitted between animals and man (Zoonotic diseases).
- 2. Explain the diseases spread by bacteria.
- 3. Study of different insect pests.
- 4. To develop the knowledge of poultry in an operational farm for more profit, management, feed requirements, etc.

Zoology Practical – I

- 1. Identify animals of higher groups in Invertebrates and Vertebrates.
- 2. Distinguish between poisonous and non-poisonous snakes.
- 3. Explain the modifications and adaptations in animals.
- 4. Explain the use of tools in Pest control.
- 5. Describe External features and economic importance of freshwater and Marine water fishes and other aquaculture organisms.
- 6. Develop skill in simple biochemical laboratory procedures.

Zoology Practical – II

- 1. Identify the histological slides of reproductive organ/tissues.
- 2. Comment on merits and demerits of contraceptive devices / methods.
- 3. Perform vaginal smear technique to identify the phases of estrous cycle.
- 4. Distinguish the male and female anatomical features of reproductive system in mammals.
- 5. Identify the life cycle stages of few parasites and diseases spread by vectors.
- 6. Explain the effects of household insects on human health.

B. Sc – III (Semester – V)

Zoology Paper - IX (DSE-E29 Comparative Anatomy of Vertebrates)

- 1. Students will have understood the structures of different systems such as, integumentary, skeletal, digestive, respiratory, circulatory, nervous and sensory organs in comparative way among the vertebrate groups.
- 2. Understand comparative account of the different vertebrate systems.
- 3. Learn the comparative account of integument, skeletal components, their functions and modifications in different vertebrates.
4. Demonstrate an understanding of the evolutionary history of vertebrates and the evolutionary relationships among different groups of vertebrates.

Zoology Paper - X (DSE-F29 Molecular Cell Biology and Animal Biotechnology)

- 1. Explain the concepts of DNA replication, DNA damage and repair, and gene expression in eukaryotic and prokaryotic organisms.
- 2. Transcription and Translation in prokaryotes and eukaryotes.
- 3. Understanding the regulation of gene expression in prokaryotes using operon concept and Eukaryotes.
- 4. Learn the methods of DNA sequencing and various tools and techniques like DNA isolation, PCR, transformation, restriction of molecular biology.

Zoology Paper - XI (DSE-F30 Biotechniques and Biostatistics)

- 1. Students will understand basic principles and techniques in genetic manipulation and genetic engineering.
- 2. Students will understand gene transfer technologies for animals and animal cell lines.
- 3. Demonstrate an understanding of the concepts of mammalian cell culture.
- 4. Explain the concept and types of central tendency, correlation and regression with their properties.

Zoology Paper - XII (DSE-F31 Aquatic Biology)

- 1. Gain theoretical knowledge in hydrobiology, abiotic factors and aquatic organisms.
- 2. Comprehend the importance of estuaries, marshes, wetlands and coral reef community.
- 3. Discuss the aquatic adaptations of common freshwater forms. Illustrate the Physico-chemical properties of water.
- 4. Structures of the various endocrine glands, their development, their histology and the regulation of hormone synthesis and secretion.

B. Sc – III (Semester – VI)

Zoology Paper - XIII (DSE-E30 Developmental Biology of Vertebrates)

- 1. Explain the Types of Eggs, fertilization and Cleavage.
- 2. Students will have knowledge about early development in chick and frog embryology.
- 3. Students will learn the different aspects of early, late and postembryonic development.
- 4. Understand the development of multicellular organisms from a single cell zygote.

Zoology Paper - XIV (DSE-E32 Immunology)

- 1. Overall Immune system of human beings, cells and organs involved in immunity.
- 2. Understanding of cells and organs of immune systems...
- 3. Students are able to understand basic concepts of Immunology, properties of immune system and types of immunity.
- 4.Explain the structure, classes and function of antibodies and antigen antibody interaction.

Zoology Paper - XV (DSE-E31 Applied Zoology - II)

- 1. Explain the basic concepts of apiculture like systematics, colony organization, polymorphism, morphology and foraging.
- 2.Study of Indigenous, Exotic breeds of cattle and commercial importance of dairy farming.
- 3. Explain the importance of institutions pertinent to Pearl and prawn culture. Discuss the setup of Pearl business.
- 4. Aqua culture systems, induced breeding techniques, post harvesting techniques.

Zoology Paper - XVI (DSE-F32 Insect Vectors and Histology)

- 1. Describe the basic biology (life cycle, reproduction, host-seeking behavior) of major insect vectors.
- 2.Explain the transmission cycles of pathogens vectored by major arthropod vectors including mosquitoes, Housefly and Fleas.
- 3.To be able to describe the organs, and to differentiate their histological structures.
- 4.To be able to describe the normal structure and function of various cell types,

tissues, and organs, and to differentiate their histological structures.

B. Sc – III (Practical)

Zoology Practical – I

Comparative anatomy and developmental biology of vertebrates

- 1. Explain the anatomical features of brain, heart and skin of vertebrates.
- 2. To study of developmental study of frog.
- 3. Prepare permanent slides of chick embryo whole mounts.
- 4. Sketch, label and explain the whole mounts and transverse sections of chick embryo.
- 5. To study of histological structure of placenta.
- 6. To study the gametes of frog and rat.

Zoology Practical – II

Applied Zoology – II and Immunology

- 1. Explain the basic concepts of apiculture like casts of honey bees, Bee hive and model of bee hive.
- 2. To study of freshwater prawn culture, pearl culture and goat farming.
- 3. Identify the microscopic structure of the lymphoid organs.
- 4. Demonstrate immuno-electrophoresis technique.
- 5. Detect the human blood groups by antigen -antibody reactions.
- 6. Prepare the human blood smear to identify various blood cells.

Zoology Practical – III

Molecular biology, Animal biotechnology, Biostatistics & Biotechniques

- 1. To study microtechnique.
- 2. To study of permanent histological slides HE technique.
- 3. To study the different types of histochemical technique- AB pH- 1, AB pH- 2.5.
- 4. Explain the principle and applications of paper chromatographic technique with example.
- 5. Understand the applications of statistical tools like mean, mode, median, mean deviation, standard deviations.
- 6. Solve the statistical problems based on Central Tendency, Dispersion, Correlation and regression.

Zoology Practical – IV Aquatic biology, insect vector & diseases

- 1. Determination of pH, acidity-alkalinity and hardness of water sample.
- 2. Determination of dissolved oxygen and free CO_2 of water sample.
- 3. To study instruments used in limnology and their significance.
- 4. Description of head- origin, structure and modification; types of mouthparts and antennae.
- 5. To study the mosquito, sandfly, housefly, flea born diseases.
- 6. To study histology of mammalian organs.



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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

DEPARTMENT OF BOTANY

B.Sc. BOTANY

PROGRAM OUTCOMES

- 1. To increase knowledge of basic natural sciences
- 2. To aware about scientific knowledge
- 3. To study modern technique
- 4. To understand advanced biotechnological techniques
- 5. To create awareness about Environment and sustainability

6. Successful career in Botany like Forestry, Plant Nursery, Plant Tissue Culture, Plant Research Institutes

Programme Specific Outcomes: PSOsof B.Sc. Botany

- PSO1. Critically evaluation of ideas and arguments by collection relevant information about the plants.
- PSO2. Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences., and a depth and breadth of knowledge/expertise in the field of Plant Identification.
- PSO3. Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.
- PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.
- PSO5. Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
- PSO6. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.

Course Outcomes of B.Sc. Botany – 2023-24

Class/	Course Code and	Outcomes	
Program	Name/ Title		
B. Sc. I SEM – I NEP	P – I - 88181 - Microbes, Algae, and Bio fertilizers	 The students will develop understanding about the diversity, identification, classification and economic importance of Viruses. The students will develop understanding about the diversity, identification, classification and economic importance of Bacteria The students will develop understanding about the diversity, identification, classification and economic importance of Algae. They learn the use of Organic Biofertilizers such as <i>Rhizobium, Nostoc and Trichoderma</i> etc 	
	P – II - 88181 – Cell Biology and Analytical Techniques	 Students Gain knowledge about Cell Science Cell biology gives knowledge about cell organelles, importance and their function Understand component of cell is cell wall, Plasma Membrane, organelles and Cytoplasmic matrix. Cell organelles w. r. t. ultra structure, chemical composition and functions They Understand Research Techniques such as Microscopy, and Chromatography. 	
B. Sc. I	Paper – III- Mycology, Phytopathology and Mushroom Cultivation	 The students will develop understanding about the diversity, identification, classification and economic importance of Fungi. Understand the scope and importance of Plant Pathology. To give knowledge about plant disease, plant growth, plant metabolism and structure between different groups of plant. Know the diseases caused by fungal, bacterial, mycoplasma, nematodal and viral pathogens Understand the mushroom cultivation techniques. 	
SEM - II	Paper -IV – Archegoniate (Bryophytes and Gymnosperms)	 Understand the diversity of Pteridophytes and Gymnosperms Understand the economic importance of Pteridophytes and Gymnosperms. They understand Internal structure. They come to know the life cycle of archegoniate 	
B. Sc. I SEM – II	Botany Practical Paper	Students understand practically by handling of plant materials, Equipments and apparatus	

(Annual)	(Based on Paper I, II, III and IV)	 Students learn the Vegetative and Morphological characters of Plants. Study of diversity of Algae, Fungi, Bryophytes, Pteridophytes, and Gymnosperms. They learn the forms of Bacteria Students learn the use of bio fertilizers and organic manure. They know the structure of Prokaryotic and Eukaryotic cells. Learn the different lab techniques such as Microscopy, and Chromatography etc.
B. Sc. II	P – V Plant Systematics and Anatomy	 To know the scope and importance of the plant systematics. To understand plant morphology, nomenclature and classification To prepare and demonstrate herbarium and to understand importance of Botanical gardens. To examine internal organization of plant organs.
Sem.III	P –VI Genetics and Molecular Biology	 To understand the principles of Mendelian inheritance and gene interaction. To differentiate between structural and numerical variations in chromosomes. To know the composition and significance of nucleic acids. To summarize concept of central dogma and genetic code.
B. Sc. II Sem. IV	P – VII Plant Ecology and Economic Botany	 To understand core concepts of biotic and abiotic components. To prepare map of Phytogeographical regions of India. Know importance of plants and plant products and their utility. To understand importance and conservation of Germplasm.
	P – VIII Plant Physiology, Nursery, and Gardening Techniques	 To understand various physiological processes in plants. To understand significance and mechanism of photosynthesis. To design outlines of landscaping and home gardening. To prepare different types of gardens and to know garden equipments.
B. Sc.II SEM – II (Annual)	Practical Paper-I	 Students understand practically by handling of plant materials, equipments and apparatus 1. Students learn the Vegetative and Morphological characters of Plants. 2. Students understand the diagnostic characters of some Angiospermic plant families 3. Double staining technique 4. Maceration technique 5. They can calculate Protein sequence. 6. They practically learn isolation of DNA.
	Practical Paper -	Students understand practically

	Π	 Students learn the different ecological adaptations and ecological instruments. They know the Phytogeographical regions of India To learn the different techniques such as Chromatography. To prepare millets product. Students come to know the different horticultural techniques such as Budding, Layering, Grafting, Potting, Bonsai etc. Understand use of Ganong's respirometer Understand the Science of Heredity Mendelism laws 	
	P – IX - 79688 Genetics and Plant Breeding	 of heredity 2. Study of multiple alleles, linkage and crossing over 3. Euploidy, aneuploidy and chromosomal aberrations. 4. Understand the science of plant breeding. 	
B.Sc. III Botany Sem. V	P –X - 79689 Microbiology, Plant Pathology And Mushroom Culture Technology	 The students will develop understanding about the diversity, identification, classification and economic importance of different microbes such as viruses, bacteria etc. Understand the scope and importance of Plant Pathology. To give knowledge about plant disease, plant growth, plant metabolism and structure between different groups of plant. Know the diseases caused by fungal, bacterial, mycoplasma, nematodal and viral pathogens and Different control measures of plant diseases Understand the mushroom cultivation techniques. 	
B.Sc. III Botany Sem. V	P – XI - 79690 Cytology and Research Techniques in Biology	 Students Gain knowledge about Cell Science Cell biology gives knowledge about cell organelles, importance and their function. 1. prokaryotic and eukaryotic cell 2. Understand component of cell is cell wall, Plasma Membrane, organelles and Cytoplasmic matrix. 3. Cell organelles w. r. t. ultra structure, chemical composition and functions 4. Understand Research Techniques such as Colorimetry, Micrometry, Spectrophotometry, Thin Layer Chromatography, Microscopy etc. 	
B.Sc.III Botany Sem. V	P –XII – 79691 Horticulture and Gardening	 P-XII - 79691 Horriculture and Gardening I. To understand scope , importance & disciplines of horticulture. I. To understand scope , importance & disciplines of horticulture. I. To understand different horticultural practices & methods. To understand production technology, harvesting and preservation techniques of fruits, vegetables, Ornamentals, floriculture. Knowledge of horticulture and floriculture is useful for development of small scale industries for the youth. 	

B.Sc. III Botany Sem VI	P – XIII - 81680 Plant Biochemistry And Molecular Biology	 Students can Understand the current status of Biochemistry. Learn the scope and importance of molecular biology. Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material. (Watson & Crick Model) Gene action and regulation in governing specific functioning and characters 		
Selli. VI	P – XIV -81681 Bioinformatics, Biostatistics and Economic Botany	 students can Understand the concept of Bioinformatics and different databases and retrieval tools Understand the techniques of statistics to biological data Determine test of significance. Understand the scientific name, part used of some economically important plants. 		
B.Sc. III Botany Sem. VI	P – XV - 81682 Plant Biotechnology and Paleobotany	 Understand the biotechnology scope, significance, To learn advanced techniques and achievement. Know the transgenic technology for the improvement of quality and quantity of plant and there by product. Understand the advantages of in vitro propagation in various areas. Know the scope of Paleobotany, types of fossils and geological time scale and fossil genera representing different fossil groups. 		
	P – XVI - 81683 Biofertilizers, Herbal Drug Technology	 Study of Organic Biofertilizers such as Green Manures, <i>Rhizobium, Trichoderma</i> etc Learn the different herbal drugs and their uses. Learn the Adulterants used in herbal drugs They learn biochemical techniques to identify drug adulterants. 		
Annual Pattern	Practical paper I (Based On Paper No. X and XV)	 Students understand practicals by handling and sectioning plant materials. 1. Preparation of different culture media such as PDA and M.S. 2. Learn the tissue culture techniques. 3. Learn the plant diseases and their symptoms 4. Isolation and Quantification of DNA molecule. 5. Learn the Steps involved in genetic engineering. 6. Learn the different types and forms of Fossils such as Lyginopteris, Enigmocarpon 		
	Practical paper II (Based on Paper No. IX and XIV)	 Students understand practicals by handling and sectioning plan materials. 1. Genetic examples on Linkage, Crossing Over and Polygene inheritance 2. The Mitosis and Meiosis techniques. 3. Learn the karyotype analysis 4. To know the emasculation and Breeding technique in 		

	 various families such as Malvaceae, Poaceae, Fabaceae 5. Study of the different economically important plants Gram, Soybean, Ground Nut, Cotton, Black Pepper etc. 6. Learn the methods of Central tendency measurement Graphical data presentation. 			
Annual Pattern	Practical paper III (Based on Paper no. XI and XVI)	 students understand practicals by naturing and sectioning plant materials. 1. They know the structure of Prokaryotic and Eukaryotic cells. 2. Learn the different lab techniques such as Photomicrography, Micrometry, Spectrophotometry etc. 3. Students learn the use of biofertilizers and organic manure. 4.Learn the preparation techniques of herbal products. 5.Students come to know the different techniques to identify drug adulteration. 6. Know the techniques of Phytochemical analysis of Primary and Secondary Metabolites. 		
	Practical paper IV (Based on Paper no. XII and XIII)	 Students come to know the different horticultural techniques such as Budding, Layering, Grafting, Potting etc. Student understands the procedure of making Bonsai, Bottle garden, floral Rangoli and floral pot They can learn the use of different garden implements such as Cutter, Scissors, Sprayer and Spade. Students learn the plantation techniques of some economically important Ornamental plants such as Rose, Gerbera, Marigold They know the technique of Identification and Preparation of Hedge, Edge and Indoor Plants. Learn the Qualitative analysis techniques of Sugar, Starch, Proteins and Lipids. 		



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Department of Mathematics

Program Specific Outcomes

- 1. Students gain a sound knowledge in foundational subjects related to pure and applied mathematics.
- 2. Acquire various skills related to computational techniques and related software's.
- 3. Being able to analyze the problem and propose a solution method and finalize the solution and the process of solution in consultation with the peer group and faculty.
- 4. Develop the solution methodology and necessary software if required and prepare the report.

Course		Outcomes	
B.Sc. I (Mathematics	5)		
Theory paper:	5A	Students aquaint themselves with the idea of comp	lex numbers.
Differential Calculus		Understand Meaning and significance of	Hyperbolic
		functions and their relation with circular functions	
		3. Get to know the significance of Leibnitz's theorem, De	
		Moivre's Theorem, Euler's Theorem.	
		Understand the concept of partial differentiation and	l learn to
		apply it for various problems in science	
		and engineering.	
Theory paper:	6A	Students grasp the concept of mean value theorems	and its
Calculus		significance.	
		Study the special case of Taylor's expansion	
		Learn the meaning and significance of Indetermina	te forms and
		learn to apply it for various indeterminate limiting of	cases
Theory paper:	5B	Inderstand the meaning, motivation and significanc	e of
Differential Equations		differential equations.	

	2.	Learn how to form and solve first order first degree ordinary
		differential equations.
	3.	Learn the methods of solving equations of first order and higher
		degree.
	4.	Solving higher order ordinary linear differential equations and
		homogeneous linear differential equations with constant
		coefficients.
Theory paper: 6B Higher	1.	Study the method of solution of general second order
order Ordinary		differential equation with variable coefficients.
Differential Equations	2.	Understand the concept, formation, and method of solution of
and Partial		ordinary simultaneous equations.
Differential equations.	3.	Study the motivation and concept of partial differential
		equations. Learn methods of solving Lagrange's equation and
		Charpit's method.
Practical: CML-	1.	Students get aquainted with the field of numerical
I (Computational		computational methods and various areas covered within the
Mathematics Laboratory		subject of numerical computations with a bird's eye view of
- I)		applications.
	2.	Learn to use electronic calculators and computers for simple
		calculations of algebraic and transcendental functions that are
		frequently required in science and technology.
	3.	Teacher gets to know student specific queries and helps
		students solve their individual problems with personal
		attention.
B.Sc. II (Mathematics)		
Theory Paper: 5C Real	1.	Learning basic concepts of set theory.
Analysis – I	2.	Study the principle of mathematical induction and apply it for
		proving results.
	3.	Acquire the concept of countabilility and determine
		countable and uncountable sets.
Theory Paper : 6C	1.	Understanding of the concept of Hermitian and Skew-
Algebra – I		Hermitian Matrix and their properties.

	2.	Grasp the concept of normal form and convert given matric to
		Normal form.
	3.	Learn the concept of Eigen value and Eigen vector . To find
		Eigen values and Eigen vectors.
Theory Paper: 5D Real	1.	Study the concept of monotonic and bounded sequences.
Analysis – II	2.	Understand Epsilon-Delta concept of convergence of a
		sequence.
	3.	Study the methods of testing convergence of series.
Theory Paper : 6D	1.	Understand the concept of Cosets.
Algebra – II	2.	Learn the meaning of Normal subgroups of a group with
		examples.
	3.	Study the concept of a Permutation group with examples.
Practical : CML – II (1.	Learn to solve linear systems of equations by Gauss-
Computational		Elimination , Gauss-Jordan , Gauss Jacobi and Gauss-Seidel
Mathematics Laboratory		methods manually with use of electronic calculators .
— II)	2.	Learn root finding methods viz. Newton-Raphson method,
		Bisection method.
	3.	Learn methods for evaluating numerical values of
		integrations using trapezoidal rule, simpson's 1/3 rd rule,
		simpson's 3/8 th rule.
Practical : CML – III (1.	Learn the basic keywords of C programming language and
Computational		practice them in computer lab.
Mathematics Laboratory		Studying basic data types and input output methods in C and
- III)		practice it in computer laboratory
	3.	Apply the knowledge of C programming for preparing C
		programs for the solution of various numerical methods
		learned in the paper CML-II
	1	