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SUPPORTING DOCUMENTS FOR 2.6.1

2.6.1 COURSE OUTCOME AND PROGRAMME OUTCOMES

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GOVT DEGREE COLLEGE, TIMARNI, Dist.-Harda (M.P.) 2022-23

All PROGRAM OUTCOME

NO.	PROGRAM NAME	PROGRAM OUTCOME
1	B. A.	• B.A. (Programme) is designed in such a way that students will be exposed to the real world and • society, identifying the problems and working towards their solutions through various analytical.
2	B. Com	• After completing three years for Bachelors in Commerce (B. Com) program, students would gain athorough grounding in the fundamentals of Commerce and Finance. • The curriculum of this program offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
3	B.Sc.	• The B.Sc. program enabled the students to enhance their critical thinking, during the three years ofstudy and the curriculum prompt the mental belief and assumptions of the students. • This helps the students to take up project/practical work and evaluate the results with theirassumptions, there by leading to precision and validity of the practical knowledge Ability to handle unexpected situations by critically analyzing the problem.

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04	BBA	• Develop fundamental in-depth knowledge and understanding of the principles, concepts, values, substantive rules and development of the core areas of business such as finance, accounting, marketing, HR, operations along with the tools such as Tally, MS Excel, MS Office, etc. • This course not only enables the students to get professional qualification but also develops practical, managerial and communication skills. • To develop the culture of business and entrepreneurial aptitude among the people at large
05	BCA	• To enhance IT skills in students and provide sound knowledge of computer application andbusiness math's that can be implemented to find out solutions for various Enterprises. • To develop a skilled workforce in the numerous fields of computer application like: Database • Data ware Housing, Software communization, Data Analytics, Software engineering, Web applications etc.
06	B. Com Computer Application	• Study of this program will provide wide knowledge both in commerce and Computer softwareapplications. • Courses of this program provide bright future in the IT fields, Software, Banks, Companies, BPOsand KPOs. • These courses have opened the floodgates in the area of computers and other core industries, and another professional studies CA, ICWA etc.

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07	B.Sc. Computer Science	• Study of this program will provide knowledge of important subject of computer field, along withstudents will also get connected with subjects like mathematics and physics. • This program provides bright future in the It fields Banking Sector, Education Sector,Multinational companies, BPOs etc. • These Courses have opened the post-graduation options in various subjects like computers, mathematics, physics, management, Law etc.
8	M.Sc. Computer Science	• The M. Sc. Program gives the deep information of the subject. In this student choose differentspecialized subjects leading to the in-depth knowledge of the subject. • This leads to take decisions at intellectual, organizational and personal levels from differentperspectives of life. • Most of the students are getting selected for placements in different firms. • Students gained knowledge of advanced instrumentations and Techniques which helps them inresearch. • Students learned the skills of comprehending, analyzing, modeling and solving given problems at ahigh level of abstraction based on logical and structured reasoning.
09	MA ECONOMICS	• The introduction, development and advancement of new subjects associated with economics andtheir analytical applications decipher many unknown behaviors of human beings. • By the introduction of the conditions of rationality in the areas of Consumption, Production anddistribution, it tries to nurture rational thinking • The students of Economics can go for higher studies in the fields of Economics Business Administration and Education after attaining post-graduation in economics

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10	M.Com	• It is a master degree course in the field of commerce. It is a two-year duration programme. Thiscourse is recognized by the University Grants Commission (UGC)". After completion of this course, an M.Com. graduate can look for a career opportunity in public sector in various nationalized banks like State Bank of India, Union Bank, P.N.B., Bank of Baroda,Syndicate Bank, etc. or in private sector in roles like Assistant Manager, Company Law Assistant, Junior Accountant, Relationship Manager, Sales Officer (accounts). • Will be able to the manpower needs of companies in Accounting, Taxation, Auditing and Financial Analysis & Management. • Will Prepare students for professions in the field of Accountancy-Chartered Accountancy, Costs Management accountancy, professions in capital and commodity markets, life and non-life insurance, and professions in banks. • Learners will be able to recognize features and roles of businessmen, entrepreneur, managers, • consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision.

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11	MA Political Science	• Develop conceptual clarity of major theories and concepts of Political Science and related sub-fields. • Comprehend how power operates at different levels, personal/social/domestic and international andtheir inter-connectedness. • Analyze public policy formulations, implementation, problems and available public policy choices. • Develop critical thinking, articulate arguments on key issues of public policy and politics. • Demonstrate competency in basic social science research techniques and methods includingqualitative and quantitative methods of research design and techniques.
12	MA Sociology	• The sociological knowledge provides students scientific outlooks and attitudes to understand thehuman behavior, social issues and phenomena. • Acquiring sociological knowledge in the forms of theories and methods would make students goodsocial scientists. • The sociological knowledge would help to make students, critical and logical. • After studying this course, students would be also able to qualify theUPSC, MPSC/ UGCNET/JRF/ and other examination of Social Welfare Departments. • Students would be able to get employment opportunities in the Teaching, Research and NGOs and Private sectors.

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Course Outcome for All UG Courses

S.NO	CLASS	SUBJECT	PAPER	COURSE LEARNING OUTCOME
01	BA I Year	Sociology	Indian Society and Culture Basic concepts of Sociology (Major/Minor/Open Elective)	This paper is expected to bring familiarity among student about Indian society It will present a comprehensive, integrated and empirical profile ofIndian society It is supposed that the structure and processes operative in the society, the changing agents operating in Indian society presented in this paper will also enable students to gain a better understanding of their own situation and region. • Get an impression about the basic composition of Indian society, is histories moorings, basic philosophical foundations of the society and the institutions • The student will have extensive comprehension of Indian traditions and the opportunity to explore and express them. • They will also learn in detail about the three layers of Indian society, namely "Aranyak. Lok (grimy) and Nagar • After reading this course the student will be able to understand and strengthen local/regional employment avenues. • The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen

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				insight to distinguish between the commonsense knowledge and sociological knowledge. The conceptual learning of society, social groups, social structure, social institution etc. will get help student in their day-to-day living.
				• By student this paper student will get information about various employment opportunity to in government, corporate, N.G.O. and self-employment sector.
				• This paper gives Student an awareness of culture differences and provides them with opportunity to enhance their culture sensitivity.
				• The concepts of Indian social institution such as, family, marriage, kinship will enable student to consider their roles in solving manysocial problems
				• The theory of culture lag will make students better understand the conflict of generational gap and minimize it in due course. Teaching of culture, socialization and civilization will emphasis not only the new agencies of socialization but also their significance impersonality development.
2	BA II Year	Sociology	Basic Concepts of Social Research, Paper-I Core Course (Major I)	• This paper will help in developing research insight among the students. They will learn about the nature of scientific method and the way to attain value neutrality.

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				• It will teach students about the importance of reality and the ways to obtain objective and reliable information. • It will develop reading, writing and reasoning skills among the students. • This paper is designed to acquaint students with scientific ways of studying social phenomena. • 4. The students, well versed with this course will have many jobs opportunities in academic, fundamental and policy research projects undertaken both by the government and non-government agencies. • Social change is inevitable, hence learning about human society is incomplete without comprehension of change. This paper is designed to give the student an extensive knowledge about social change and its overall impact on society.
			A2-SOCI2T Social Change and Development, Paper-II Core Course	This paper will introduce the students with the concept, various factors, processes, and theories of social change. • It will also give them knowledge about the concept of development and its consequences. • The critical contributions would enable students to come out with understanding of policies and initiatives taken by the

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			(Major II / Minor/ Open Elective)	government, their implementation and resulting problems. • Students, well versed with this course are most likely to get job opportunities in various departments of planning and development, in NGOs which work as agencies of change and development and research institutes which deal with project and planning.
3	BA III Year	Sociology	A3-SOCI3D Foundation of Sociological Thought (Discipline Specific Elective Group 'B' Paper First)	After Completing this course students will be able to understand the followings: - • The original text of sociological thought. • They will be able to critically analyze the theoretical argument of different scholars. • Students will be able to apply sociological theories to understand the social phenomena in the practical world. • This course will be helpful to develop the deep scientific and logical understanding about Indian Society, culture, and traditions among students.
			A3-SOCI4D Crime and Society Discipline Specific Elective Group 'B' Paper II (Core Course)	By this curriculum student will successfully to gain the following knowledge • Major outcome of this course will make the students to discover and analyses the fundamental knowledge of crime. criminals and the scientific and logical understanding about the causes of crime and remove the fallacy related with these

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				• This syllabus will be helpful to avcare the students about the new patterns of crime such as organized, professional and cybercrime. • The knowledge of constitutional provisions of crits. rules of compensation and justice for victims will prove important for students. • The new provisions related with punishunent, prison and prisoners will make the thinking of students more scientific. • This course will provide students a west area of job opportunities in government, research, medical, legal, social sector and consistency etc.
			Minor/Elective Sociology of Indian Tribes	Present syllabus introduces the students about different known and unknown part of tribal society- • This syllabus will provide the scientific knowledge and demography of tribes and scheduled tribes. • Students will be able to understand the socio-cultural specialty of tribal society, their traditional economy and political organization. • Study of tribal problems, will be able to develop the feeling of co-existence in students and will turn their thinking more logical and scientific. • Study of this paper will help the students to succeed in different competitive examination and interviews.

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				• This course will provide students a vast area of job opportunities in the field of government, private, research and NGO's sector ete.
BA Economics				
04	BA I Year	Economics	Micro Economics (Major)	students will be understanding the basic principles of microeconomics. They will be able to explain concept of consumer behavior, production. They will learn about market and price determination theory.
			Indian Economics (Major/Minor/Open Elective)	Develop ideas of the basic characteristics of Indian economy and its potential on natural resources. Understand the importance, causes and impact of population growth and its distribution, and translate and relate it with economic development. Gain knowledge of the overall economy, its features, sources of revenue, how the central and state government finance its programmers and projects. Understand agriculture as the foundation of economic growth anddevelopment, analyze the progress and changing nature of agricultural sector and its contribution to the economy.
05	BA II Year	Economics	Macro Economics (Major)	• Understanding nature of macroe conomics and various sectorsinterrelationship. • Gaining knowledge on classical and Keynesian theory ofemployment their relevance.

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				- Preparing to understand various factors factors of consumptionfunction. - Accumulate knowledge on saving and investment function in aneconomy.
			Money Banking And Public Finance (Minor/Minor Open Elective) II Paper	- Demonstrate a good understanding of the fiscal framework for taxing and spending and of fiscal policy principles. - Research, and examine key issues and challenges in fiscal policyin a particular development or country context. This course provides an analysis of the economic relationships between countries, covering both trade and monetary issues. dealswith international trade theory and policy. Here the syllabus also tries to explain how the bank functions with its own functioning and public finance has also been tried to explain how the government works in income and expenditure.
06	BA III Year	Economics	Economics of Growth and Development (Group) (Major) Paper-I	In the third year of B.A., two papers are being studied as major papers in the syllabus of the students Economics of Development and Growth and Statistics, while in the Minor and Open Elective papers, Gender Economics has been presented as the subject matter where the concept of economic development and its principles are explained in development and development, along with the subject matter like economic planning In its second part, quantitative and

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				statistical science has been described as the
				science of data, along with this, gender economics has also been made its subject matter, by studying which efforts are being made to make students' employment free in the form of a new education policy.
			Statistics (Group A) (Major) Paper-II	The student has basic theoretical knowledge about fundamental principles for statistical inference. The student has knowledge aboutconstruction of point and interval estimators, and hypothesis testing; and about the evaluation of these estimators and tests. The student has insight in how to construct optimal estimators and tests.
			Gender Economics (Minor/Minor) Open Elective)	Students of the third year of Economics are getting to learn a lot from this course where one is getting acquainted with economic development and its theory, apart from this, the student is also benefiting from important concepts like economic planning, on the basis of this, information is being received on the basis of how economic benefits can be obtained on the basis of investment. Apart from this, the third paper is Gender Economics which proves very useful for the students as Minor and Open Elective because by taking this subject matter, he will not only try to understand social equality but also prove himself useful on social basis on the basis of its medium. Students will prove to be very beneficial because all the papers will prove useful in increasing employment opportunities for them

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colspan="5"	**BA Political Science**			
07	BA I Year	Political Science	Political Theory	• Understand basic Principles, Definitions of Political Science. • Interdisciplinary aspects of Political science, its relation with other social sciences such as History, Sociology, Economics, Geographyetc. • Know the salient features of state nation, Nationality, Sovereignty, Citizenship and Civil Society. • Duties Acquaint with Rights, Liberty & Equality, and Justice. • Understand the basic Philosophy of Indian Constitution. Identify various types of Government Unitary & Federal, Parliamentary and Percipiently.
			Indian Constitution (Major/Minor/Open Elective)	• Evaluates the theory of Democracy. • Evaluates the evolution and functionary of political parties andPressure Groups. • Understand the philosophy of Indian constitution. • Appreciate the various phases of Indian national movement. • Know the fundamental rights and duties and directive principlesof state policy. • Evaluate the Functionary and structural information regardingIndian parliament. • Acquaint with Union and state Executive & legislature. • Understand salient features of the supreme court & electioncommission.

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				• Identify how electoral rules in India affect election outcomes. • Understand Right to information, judicial activism.
08	BA II Year	Political Science	Course Code – A2POSC1T Western Political Thought (Major I)	• The students will understand the significance of study of Political Philosophy. • The students will know the key ideas of Greek Political thinkers Plato and Aristotle • They will be able to explain what was the ideal state according to Plato and how was it linked to his scheme of education and theory of justice. • They will be able to answer how Aristotle differed from his master Plato on the conception of justice. • They will be able to answer why Machiavelli is called the child of his age. • They will be able to answer how and why Machiavelli gave an overriding priority to pragmatism above ethics and values in operation of statecraft. • They will be able to make a distinction among Hobbes, Locke, and Rousseau on the state of nature, the law of nature, nature and form of contract and the emergence of state from the contract. • Students would learn the key ideas of idealist thinkers • Students would learn the key ideas in Marxism and will be able to answer the Socialist and communist tradition after

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				Marx in Political ideas of Lenin and Laski.
			Indian Political Thinkers (Major II/Minor/Open Elective)	Students will be able to think of Manu and Kautalya. • Students will be able to explain Social and Political Ideas of Rajaram Mohan Roy, Swami Vivekananda, Lokmanya Bal Gangadhar Tilak, Shri Aurobindo Ghosh. • They will be able to explain the key ideas of Mahatma Gandhi, Jawaharlal Nehru, Subhas Chandra Bose and Dr. Bhimrao Ambedkar • Students will be able to evaluate the ideas of M.N. Roy. Ram Manohar Lohia, Jayaprakash Narayan and Pt. Deendayal Upadhyaya. They will be able to understand the contribution of Women in Indian Political Thought.
09	BA III Year	Political Science	India's Foreign Policy (Major I) (Group-A, Paper-I)	On successful completion of this course, the students will be able to: This course will help students to develop an authentic understanding of India's Foreign Policy- its historical context, recent developments and key issues facing the country. The course will provide students with a frame work to analyses and become familiar with India's diplomatic agenda and current engagements with partner countries.

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				BA Hindi Literature	
10	BA I Year	Hindi Literature	हिन्दी गद्य (प्रश्न पत्र1) कोर कोर्स/मेजर 1		• विद्यार्थी हिन्दी गये साहित्य एवं प्रमुख रचनाओं से परिचित होंगे। • विद्यार्थियों में साहित्य अध्ययन से संवेदनशीलता एवं मानवीय गुप्तों का विकास होगा।
11	BA II Year	Hindi Literature	A2-HLIT1T हिन्दी गद्य (प्रश्न पत्र1) कोर कोर्स/मेजर 1		• विद्यार्थी हिन्दी गये साहित्य एवं प्रमुख रचनाओं से परिचित होंगे। • विद्यार्थियों में साहित्य अध्ययन से संवेदनशीलता एवं मानवीय गुप्तों का विकास होगा। • साहित्य क्षेत्र में सर्जनात्मक लेखन एवं समीक्षा के प्रति प्रेरित होंगे। उन्हें रचनाओं के प्रकाशन एवं अध्यापन के क्षेत्र में रोजगार प्राप्ति के अवसर प्राप्त होंगे।
			A2-HLIT2T अनुवाद विज्ञान (प्रश्न पत्र 2)कोर कोर्स मेजर 2 माइनर / वैकल्पिक		• विद्यार्थियों में अनुवाद कौशल का विकास होगा। • भारतीय एवं विश्व भाषा साहित्य के अनुवाद क्षेत्र में रोजगार के अवसर प्राप्त होंगे • वैश्विका प्रतिस्पर्धात्मक वातावरण के साथ सामंजस्य बनाने में संक्षस होंगे।

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12	BA III Year	Hindi Literature	A3-HLIT1D काव्यांग विवेचन एवं जनपदीय भाषा-साहित्य (बुन्देली/मालवी/बघेली) (प्रश्न पत्र I)	• विद्यार्थी काव्य के प्रमुख अंगों का अध्ययन कर काव्य को भली भाँति समझ सकेंगे । • जनपदीय भाषा एवं साहित्य का ज्ञान प्राप्त कर सकेंगे। • जनपदीय भाषा साहित्य के माध्यम से भारतीय संस्कृति की विविधता से परिचित होंगे। विद्यार्थी जनपदीय भाषा कौशल में पारंगत होंगे। क्षेत्रीय भाषाओं, बोलियों के साहित्य को संगीतबद्ध करना, नाट्यरूपांतर करना आदि के माध्यम से स्वयं के व्यावसायिक कला मंच स्थापित कर सकेंगे, देश-विदेश में प्रस्तुतियाँ दे सकेंगे।
			A3-HLIT2D जन संचार माध्यमः सिद्धान्त और अनुप्रयोग (प्रश्न पत्र II)	• एक रोजगारोन्मुखी पाठ्यक्रम है जो विद्यार्थियों को जन संचार माध्यम में कौशल प्राप्त करने एवं रोजगार प्राप्त करने में सहयोगी होगा। • विद्यार्थी महत्वपूर्ण व्यक्तियों के साक्षात्कार लेने में सक्षम होंगे 1 • विद्यार्थियों को पत्रकारिता के माध्यम से सामाजिक और राष्ट्रीय दायित्व का बोध होगा।

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			A3-HLIT2T लोक साहित्य एवं लोक संस्कृति माइनर /elective (सैद्धांतिक)	इस कोर्स का अध्ययन करने के लिए, छात्र ने हिन्दी साहित्य विषय का अध्ययन डिप्लोमा में किया हो। • विद्यार्थी लोक जीवन शैली से भिज्ञ होंगे • लोक साहित्य की विविध विधाओं का अध्ययन कर अपने ज्ञान और अनुभव से शोध कार्य करने में समर्थ होंगे। • लोक कला के क्षेत्र में कौशल विकास कर, रोजगार प्राप्त कर सकेंगे। • लोक गीत, संगीत, नाट्य अभिनय आदि में रुचि रखने वाले विद्यार्थी संगीत नाट्य एवं फिल्म आदि क्षेत्रों में नया प्रयोग करते हुए देश- विदेश में यश एवं अर्थोपार्जन कर सकेंगे।
			BA Computer Application	
13	BA I Year		Programming in C language	• To explore basics of c programming language. • To approach the programming tasks using techniques learned andwrite pseudo-code. • To choose the right data representation formats based on therequirements of the problem. • To use the comparisons and limitations of the various programming constructs and choose the right one for the

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				task inhand. ● To identify task in which the numerical techniques learned areapplicable and apply them to write program and hence use computers effectively to solve the task.
			DATA PROCESSING SOFTWARE	On the completion of this course student will be able— ● To understand the basic concept of various application ofsoftware. ● To gain knowledge of MS Word, Excel, Access and Power point. ● To Apply acquired knowledge in office automation tasks. ● To study various methods of formatting of documentation and useof spreadsheets. ● To develop and enhance presentation skill using Power point. ● To create and manage professional document using word. ● Create and manage presentation using power point.
			Elective–MS.Office	● Analyze manage and present data using excel. ● To insert a table, picture or drawing in to the documents. ● To prepare the documents to be sent as a circular letter.
			Elective-Computer Fundamental	● To review the basic concept and functional knowledge in the field of computer application.
			Major-core course	● To understand database concepts, applications, structure, need and database terminologies.

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	BA II Year		DBMS	• To know about fundamentals of Relational Algebra and recovery & backup. • To gain skills to create logical design of database, including the E-R method and normalization approach. • To explore issues of transaction processing and concurrency control.
			Open/Minor subject- introduction to ASP.NET& C#	• To acquire knowledge of back-end project management skills. • To understand fundamental of. net framework • To enrich knowledge about windows forms, controls and ASP.NET based application. • To gain proficiency in C# by building stand-alone application in the .NET framework using C# • To build data-driven application using the .NET framework# and ADO.NET • To acquire skills to create web-based application and Reports using.net technology.
15	BA III Year		Major Group-A (Discipline Specific elective)	• To understand to analyze the structure and basic architectural components involved in OS. • To display competence in recognizing and using operating system features. • To gain knowledge of implementation of different operating

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			Paper-1 Operating System	system aspect. • To apply knowledge of different operating system algorithms. • To create new apps for business point of view.	
			Major Group-A (Discipline Specific elective) Paper-II Computer Network	To learn the basic taxonomy and terminology of computer networking area. • To enrich various concepts of Protocol Hierarchies, Design Issues, Interfaces and Services including connection oriented and connection less services. • To study about OSI Layers, LAN, MAN, WAN, Internet and IEEE standard. • To build network topologies and use appropriate network tools. • To gain skills of implementation of appropriate network tools. • To gain skills of implementation of network security and socket programming.	
			Minor/Open Elective Internet & its application	On successful completion of this course, the students will be able to: • Understand the features and applications of Internet. • To trouble shoot day to day problems with internet. • To understand basics of networking and web designing to use internet effectively for official and domestic application. • To build e-commerce websites.	

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				B.Sc.
16	B.Sc. I year	Chemistry	Major I Fundamental of Chemistry / SI-CHEM1T	• Ancient Indian chemical techniques. • Various theories and principles applied to reveal atomic structure. • Significance of quantum numbers. • Concept of periodic properties of elements. • Theories related to chemical bonding. • Acid-base concept. ph, buffer. • Factors responsible for reactivity of organic molecules. • Basics and mechanism of chemical kinetics. • Properties of electrolytes.
			Major II Minor/ Open Elective Analytical Chemistry/S1 CHEM2T	• Basic concepts of Mathematics for Chemists. • Fundamentals of analytical chemistry and steps involved inanalysis. • Basic knowledge of Computer for chemists. • Basic Concepts of Chemical equilibrium. • Principles of Chromatography and chromatographic techniques.

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				• Various techniques of Spectroscopic Analysis.
17	B.Sc. II Year	Chemistry	Reactions, Reagents and Mechanisms in Organic Chemistry (Major I)	• Various organic reactions, reagents and their mechanisms, which will be helpful in understanding organic synthesis. • Application of the reactions in the various industries like pharmaceutical polymer, pesticides, textile, dyes etc. • Important Key reactions used in further study and research work. • Introductory idea about Traditional Indian Chemistry. • Chemistry of d-& f- block Elements, Basic Concepts
		Chemistry	Transition Elements, Chemo- energetic, Phase Equilibria (MajorII/Minor/Elective)	• of Coordination Chemistry. • Stereochemistry of Transition Metal Complexes. • Laws of Thermodynamics. • Concept of phase Equilibrium with reference to Solid Solution, Liquid-Liquid Mixtures, Partially Miscible Liquids. • Basic Concepts of Electrochemistry. • To learn green synthesis of organic and inorganic compounds. • To learn to prepare green ionic liquids.

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18	B.Sc. III Year	Chemistry	Group A Green and Agricultural Chemistry (Major- I)	• To understand soil profile, sampling and study minerals present in soil. • To learn to estimate organic matter of soil. •
			Group A Exercises for Development of Lab Skills Chemistry (Major- II)	At the end of the course, the learners will be- • Familiarized with the basic facilities available in laboratories. • Expected to gain Knowledge of the basic skill of organization and management of science laboratories. • Enabled to expertise in the procedures of procurement and storage of laboratory equipment & material. • Trained in the operation and maintenance of simple instruments used in science laboratories. • Enabled to develop skills in common laboratory techniques • Trained to adopt appropriate disposal procedures and safety methods suitable for Laboratories.
			Minor/Elective	• Understand importance of pharmaceutical chemistry and pharmacopeia. • Learn intellectual property rights, patents trademark and copyright.

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				• Understand Definition, Classification of the drugs with examples and structures. • Describe the structure activity relation of some important class of drugs. • Describe the overall process of drug discovery and the role played by medicinal chemistry in this process. • Relate the structure and physical properties of drugs to their pharmacological activity. • Explain physio –chemical properties related to QSAR.
Botany				
19	B.Sc.I year	Botany	Major, I Applied Botany	• Students will be understanding the significance and role ofBotany. Learnt the basic aspects of applied Botany. • Gain the knowledge about the employment opportunities in thefield of botany. • Gain the knowledge about the startup opportunities in the field ofbotany. • Learnt about the opportunities of Social Service and gain the • knowledge about the health practices.
			Major II/ Minor/ open Elective Basic Botany	• This course will be helped the students to understand thediversity of plants and evolutionary trends in the plant kingdoms.

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			(History of Botany and Indian Contribution and Diversity of Lower plants)	• It gives an accounts of plant adaptation from aquatic condition tocolonize terrestrial habitat. • The changes in morphological anatomical and reproductivestructures that propel plant evolution can be investigated. • The economic importance and significance of plants in naturewill be understood. • They will be acquainted with locally prevalent microbial diseases • of plants and humans.
20	B.Sc. II year	Botany	Major I Plant Anatomy and Embryology	• Students will learn the internal structure of plants. It will enhance the basic understanding of organization of plant body by cell and tissue. They will understand the dynamic mechanism of plant pollination, fertilization and development. They will have hand on training on section cutting.
			Major II/ Minor/Open Elective Industrial Botany	preparation of slides, study of pollen and ovules. Course will provide knowledge on plants and their parts used in various industries. Students will get an idea toto establish plant based natural product industries. Course will make the students self-reliant.
21	B.Sc. III year	Botany	Major I Plant physiology and Metabolism	Students understand the up taking the mineral, absorption and transport of water synthesis of glucose, respiration along with metabolic enzymatic activity of plants.

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			Major Paper II Ecology and forestry	Lerner will learn about the knowledge of relationship between environment and human being. Students will learn to diversity of plants endanger, rare species. Students will observation the forest landscape, analyzing data Critiquing, synthesizing, communicating identification of forest type and importance of forest in human life.
			Minor/ Open Elective	Student will be able to understand the importance of plants and their relationship with Human being. Explain how plants are of culture and traditions and how traditional medicine can cure various diseases.
		Zoology		
22	B.Sc. I year	Zoology	Diversity of Chordates and Comparative Anatomy (Paper 1) Major I	After completion of the course students will able to: Understand chordate diversity of animals and their taxonomic position. Identify the morphological and anatomical feature and basis of chordate classification. Know economic importance and present status that will develop positive attitude towards conservation of biodiversity. Differentiate the organism belonging to different taxa by studying comparative anatomy. The project, assignment will give them a flavor of research in studying biodiversity, taxonomy besides improving their writing skills and lay foundation of career in zoology.
			B.Sc. I, Major	Upon completion of the course, students will be able to:

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			II/minor/openElective Physiology and Biochemistry (Paper II)	Understand how organs function at different levels i.e. from cellular to system levels. Examine internal harmony of different body systems by learning inherent disorder and deficiencies, which is needed to maintain good health. Understand functions of bimolecular & their role in metabolism by studying biochemistry. Develop a strong foundation for research and employability skills. Improve the student's perspective of health biology through deep study of physiology.
23	B.Sc. II year	Zoology	Vertebrates and Evolution	Upon completion of the course students should be able to: Upon completion of the course students should be able to: After completion of the course, students will be able to develop a deep understanding of Chordates, Urochordata, and cephalochordates. Learn about the importance of a comparative account of the Integument and its derivatives, limbs and girdles, digestive system, respiratory system, aortic arches of heart, brain, urinogenital system, sense organs, and placenta of vertebrates. Get knowledge about evolution. Understand the fossils, study of extinct forms, zoogeographical distribution and evolution of man.
24	B.Sc. IIIYear		(Paper I) Genetics	After completion of the course, students will be able to develop a deep understanding of genetics, how genetic information transfer from one generation to another one. • Understand how transcription and translation take place in prokaryotes.

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				• Understand how mutations take place due to changes in autosomes and sex chromosome. • Understand how multiple copies of DNA form • Understand various blotting techniques
			(Paper II) Ecology Applied Zoology	• Understand the various biotic and a biotic factor of the ecosystem. • Understand the importance of Energy transfer from one tropic level to another. • Understand the population concept and community. • Understand various acts and laws to
Mathematics				
25	B.Sc. I year	Mathematics	Algebra, VectorAnalysis and Geometry paperfirst Major I	• Recognize consistent and inconsistent system of linear equation by the row echelon form of the augmented matrix using the rank of matrix. • To find the Eigen values and corresponding Eigen vectors for a square matrix. • Using the knowledge of vector calculus and geometry. • Enhance the knowledge of three-dimensional geometrical figure (eg. Cone and cylinder)
			Calculus and Differential Equation	• Sketch curves in a plane using its Mathematical properties in thedifferent coordinate system of

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			papersecond Major-II / Minor/Open Elective)	reference. • Using the derivatives in Optimization, Social science, Physics andLife science etc. • Formulate the differential equations for various Mathematicalmodels. • Using techniques to solve and analyze various Mathematical models.
26	B.Sc. II Year	Mathematics	Abstract Algebra and Linear Algebra (Major-I)	• Recognize the algebraic structures as a group, and classify them as abelian, cyclic and permutation groups, etc. • Link the fundamental concepts of groups and symmetrical figures. • Analyze the subgroups of cyclic groups. • Explain the significance of the notion of cosets, normal subgroups, and quotient groups. • The fundamental concept of rings, fields, subrings, integral domains and the corresponding morphisms. • Analyze whether a finite set of vectors in a vector space is linearly independent. Explain the concepts of basis and dimension of a vector space. • Understand the linear transformations, rank and nullity, matrix of a linear transformation, algebra of transformations and change of basis. • Compute the characteristic polynomial, eigenvalues,

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				eigenvectors, and eigenspaces, as well as the geometric and the algebraic multiplicities of an eigenvalue and apply the basic diagonalization results.
			Advanced calculus and partial differential equations (Major-II / Minor/Open Elective)	• Understand many properties of the real line R and sequences. • Calculate the limit superior, the limit inferior, and the limit of a bounded sequence. • Apply the mean value theorems and Taylor's theorem. • Apply the various tests to determine convergence and absolute convergence of an infinite series of real numbers. • Formulate, classify, and transform partial differential equations into canonical form.
27	B.Sc. III Year		Numerical Methods and Scientific Computation (Group A Paper -I)	• Understand numerical methods of find the solution of a system of linear equations. • Compute interpolation value for real data. • Find quadrature by using various numerical methods. • Solve system of linear equations by using various numerical techniques.

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				• Obtain solutions of ordinary differential equations by using numerical methods.
			Elements of Discrete Mathematics (Group A Paper-II)	• Apply the Boolean algebra, switching circuits and their applications. • Minimize the Boolean function using Karnaugh Map. • Understand the lattices and their types. • Graphs, their types and its applications in study of shortest path algorithms. • Test whether two given graphs are isomorphic. • Understand the Eulerian and Hamiltonian graphs. Represent graphs using adjacency and incidence matrices.
			Fundamentals of Boolean Algebra (Minor)	• Using the Boolean algebra in logical problems. • Minimize the Boolean function using Karnaugh Map. • Understanding the various logic gates. • Applying the circuits in logical problems.
		Physics		
				• The course would empower the students to

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28	B.Sc. I Year	Physics	Mechanics and general properties of matter	develop the idea about the behavior of physical bodies. • It will provide the basic concepts related to the motion of all the objects around us in daily life. • The students would be able to build foundation to various applied field in science and technology especially in the field of mechanical engineering. • The students will acquire the knowledge of basic mathematical methods to solve the various problem in physics • The students will be able the understand the relativistic effect and the relation between energy and mass.
29	B.Sc. II Year	Physics	Waves and Optics Major-1	After the completion of the course, the student should be able to • Develop an understanding of various aspects of harmonic oscillations and waves specially superposition of collinear and perpendicular harmonic oscillations. • Explain several phenomena of daily life that can be explained as wave phenomena. • Understand various optical phenomena, principles, workings and applications.

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				• Use the principles of wave motion and superposition to explain the Physics of polarization, interference and diffraction.
			Waves and Optics Major-2/minor/open elective	After the completion of the course, the student should be able to • Understand the basic concepts of electricity and magnetism and their applications. • Apply various network theorems and their applications in electronics, electrical circuit analysis, and electrical machines. • Understand the construction and working of ballistic galvanometer and cathode ray oscilloscope. • Understand the concept of electromagnetic waves and their reflection and refraction from a plane surface.
30	B.Sc.III Year	Physics	Group Paper -1 Quantum, Atomic And Molecular Physic	On successful completion of this course, the students will be able to- • Know the quantum mechanics and its applications. • Explain the atomic structures and X-rays. • Analyze the molecular spectra such as electronic, rotational and vibrational. • Identify the various materials using Raman spectroscopic techniques.

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				Paper-2 Solid State Physics and Electronics	On completion of the course, the students will be able to • Understand the structures of solids, space lattices and bonding of atoms in crystals. • Develop basic understanding of physical properties of matter such as specific heat, electrical conductivity and lattice vibrations in crystals. • Understand the principles related to energy bands in solid-state devices, operation of diodes and their applications. • Develop the theoretical understanding on operation of transistor, amplifiers and oscillators and their applications to electronic devices. • Understand basic concepts of modulation and demodulation.
				Group A Minor/OE Quantum Mechanics and Solid-State Physics and Devices	On completion of the course, the students will be able to • Understand the necessity of quantum mechanics and its applications. • Explain the atomic structures and X-rays. • Identify the molecular spectra such as electronic, rotational and vibrational. • Identify the various materials using the Raman spectroscopic technique. • Use different types of diodes and transistors in various electronic applications. • Analyze the amplifiers and oscillators.
Computer Science					

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31	B.Sc. I Year	Computer Science	Major (Paper I) Computer System Architecture	• Understand basic structure, operation and characteristics of digital computer. • Designing of basic combinational circuits. • Working of arithmetic and logical unit. Basic memory structure and memory hierarchy.
			Minor/Open Elective Programming methodology & Data Structure (Paper II)	• Develop simple algorithm and flow chart for problem solving paradigm. • Learn about decision and loop control structure. • 3.Getting familiar with basic data structure and their implementation.
32	B.Sc. 2nd Year		Major (Paper I) Computer Network & Information Security	• Defining & describing components of data communication like Network Protocol, Topologies, ISO Models, Data Transmission. • Various network device. • Fundamental of network information issues, laws and technologies.
			Minor/Open Elective Object oriented programming with JAVA	• Understanding object-oriented programming concept. • Understanding OOPs properties class, object, inheritance, abstraction, polymorphism, exception handling, dynamic binding, massage passing etc.
			Major (Discipline Specific elective)	• Understanding the importance of computer resources and role of operating system.

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33	B.Sc. 3rd Year			Operating System (Group - A) (Paper I)	• Understanding various process management concept, scheduling techniques', synchronization, deadlock handling, memory management, disk management, multithreading, file management etc.
				Minor/Open Elective Data Analysis & visualization with Python (Paper II)	• Understanding fundamental of Python Programming with syntax and semantics. • Understanding Python data structure like List, dictionary, tuples, sets etc. Data visualization using Matplotlib.
			B. Com		
34	B. Com I Year			Financial AccountMajor I	• Describe the role of accounting information and its limitations Equip with the knowledge of accounting process and preparation off in a accounts of sole trader • Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP. • Identify and analyze the reasons for the difference between cash book and pass book balances. • Recognize circumstances providing for increased exposure to errors and frauds.
				Business Regulatory framework(Major II)	The outcome of this course is to provide the students with practical legal knowledge Outcomes Laws of The Act, Consideration and The VariousModes of Discharge of a

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					Contract to Explain the Various Laws with Regard to The Sale of Goods and Performance of a Sale Contract and Remedial Measures, to Familiarize the Students with The Various Law with Regard to Consumer Protection in India and the Functions ofVarious Consumer Forums and, to Understand the Meaning and The Various Legislations with Regard to The Cyber Laws.
				Business organization andcommunication (Minor)	After completion of this course, it is expected that the student shallunderstand the basics of the business and will able to imbibe how any business can be organized successfully. The chapters related communication shall be able to elucidate how communication plays an important role in modern business scenario.
				Business Economics (Open elective)	• Understand how households (demand) and businesses (supply) Interact in various market structures to determine price and quantity of a good produced. • Understand the links between household behavior and theeconomic models of demand. • Represent demand, in graphical form, including the downwardslope of the demand curve and what shifts the demand curve.

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				• Understand the links between production costs and the economic models of supply. • Understand the concept of Pricing Analyze operations of markets under varying competitive conditions.
			Retail Management (Vocational)	• Understand the Fundamental Concept of Retail Management. • Understand the shopper's behavior • Understand the consumer's behavior • Understand merchandise management. • Understand visual merchandising. • Understand E-Retailing system. • Understand E-Payment system.
35	B. Com II Year		INCOME TAX LAW AND PRACTICES (MAJOR- I)	After the successful completion of the course, the students shall be able to: • Understand the basic concepts in the law of Income Tax and determine the Residential status of different persons • Identify the five heads in which income is categorized and computer income under the provisions various heads. • Understand clubbing procedures, aggregate income after set-off and carry forward of losses and

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				deduction allowed under the income tax act, and further to compute taxable income and tax liability of individuals • Develop the ability to file online return.
			Cost Accounting Major-II	• Will be expert in finding out unit cost, finding tender price, finding contract cost and finding profit • Develop decision making ability through marginal cost analysis, standard cost analysis. • Will be able to get employment as a cost analyst in small, big business.
			BUSINESS STATISTICS Minor	Apply a basic knowledge of statistics to business disciplines; • Develop the ability to analyze and interpret data to provide meaningful information to assist in management decision making activities; • Apply appropriate graphical and numerical descriptive statistics for different types of data; • Apply probability rules and concepts relating to discrete and continuous random variables to answer questions within a business context;

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				• Explain and interpret a variety of hypothesis tests to aid decision making in a business context; Use simple/multiple regression models to analyze the underlying relationships between the variables.
			APPLIED ECONOMICS (Open elective)	On successful completion of this course, students will be able to: • Demonstrate a solid understanding of the core concepts and tools of economics. • Relate basic economic theory and principles to current economic issues and evaluate related public economic policies. • Apply economic principles and reasoning to solving business problems. • Interpret charts, graphs, and tables and use the information to make informed judgments. • Communicate their knowledge and understanding of economic issues using written, verbal and visual expression. • Critically reflect on the broader social consequences of economic decision making.
			Supply Chain and Retail Management	After completion of course, students will be able to- • Understand the fundamental concept of Supply Chain Management Understand the importance of

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				(Vocational)	• Supply Chain Management. • Understand the fundamental concept of Logistics System. • Understand the fundamental concept of Warehousing. • Understand the working procedure of Warehousing & Logistics System. • Discover the aspects of Retail Market Strategy.
36	B. Com III Year			INCOME TAX LAW AND PRACTICES (MAJOR- I)	• After the successful completion of the course, the students shall be able to: • Understand the basic concepts in the law of Income Tax and determine the Residential status of different persons • Identify the five heads in which income is categorized and compute income under the provisions various heads. • Understand clubbing procedures, aggregate income after set-off and carry forward of losses and deduction allowed under the income tax act, and further to compute taxable income and tax liability of individuals.

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				• Develop the ability to file online return.
			Goods and Service tax and Custom duty (MAJOR-2)	After the successful completion of the course, the students shall be able to- • Connect with the genesis of goods and services tax (GST), decipher the constitutional amendment carried out to install in India and comprehend the composition and working of GST council. • Understand the meaning of supply under GST law Comprehend the utilization of input tax credit. • Understand the provisions for registration under GST law Know the basic concepts of customs Act and to compute the assessable value for charging customs duty.
			Management Accounting Minor	After studying this subject, the students- • Be well versed in a thorough analysis of any company's financial statements such as profit and loss account and position statement, and be able to make accurate estimates of the financial position, solvency and profitability of that company. • By studying the cash flow statement, you will get the knowledge of proper use of cash in the organization and adequate availability of cash in the organization. • After getting the knowledge of marginal cost, will

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				be able to make very important decisions for the company such as whether to make or buy the item, fix the price, stop production etc. • Learn to control costs by creating different types of budgets from budgetary control. • Prepare the managerial report of the company.
			INDIAN ECONOMY (OPEN ELECTIVE)	• On successful completion of this course, the students will be able: • To Develop ideas of the basic characteristics of Indian economy, its potential on natural resources. • To Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development. • To Grasp the importance of planning undertaken by the government of India. • To Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements. • To understand the basic sources of revenue, how the state government finance its programmers and projects. • To help the students in analyzing the present status of the Indian Economy. • To rendering the process of integration of the Indian

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				Economy with other economics of the world.
			CONSUMER AFFAIRS AND CUSTOMER CARE (Vocational)	• After completion of course, students will be able to know the concept of consumer, consumer buying process, consumer dissatisfaction and consumer markets and their related formats. • learn about consumer rights and various standards for consumer protection in India; • learn about consumer protection available under various laws; analyze the role of industry regulators in consumer protection; • learn about various issues related to consumer affairs Front Desk Manager, Retail Store Manager, Manager of Consumer.
Computer application				
37	B. Com I Year		DATA PROCESSING SOFTWARE	On the completion of this course student will be able— • To understand the basic concept of various application of • software. To gain knowledge of MS Word, Excel, Access and Power point. • To Apply acquired knowledge in office automation tasks. • To study various methods of formatting of documentation and useof spreadsheets.

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				• To develop and enhance presentation skill using Power point.
			Elective–MS.Office	• To create and manage professional document using word. • Create and manage presentation using power point. • Analyze manage and present data using excel. • To insert a table, picture or drawing in to the documents. • To prepare the documents to be sent as a circular letter.
			Elective-Computer Fundamental	• To review the basic concept and functional knowledge in the fieldof computer application. • To expose the students to computers application in the field of business.
			Vocational-Web Design	• Code a handful of useful HTML & CSS example. • Build semantic, HTML & CSS web page. • Write basic scripts • Use Names, Objects and Methods. • Add Interactivity to a Web Page. • Create Dynamic Web Pages using Java Script in HTML Forms.
38	B. Com II Year		Introduction to ASP.NET & C # (Core Course)	On the completion of this course student will be able: • To learn fundamental of. net framework • To enrich knowledge about windows forms, controls and ASP.NET based application.

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				• To gain proficiency in C# by building stand-alone application in the .NET framework using C# • To build data-driven application using the .NET framework# and ADO.NET • To acquire skills to create web-based application and Reports using.net technology.
			Vocational-Web Design using PHP	. • Discover how the web works, what makes web sites work. • Implement simple and impressive design techniques from basics to focus on goal oriented advanced-so as and user centric designs. • Use Server-Side Scripting. • Implement concept of data persistence.
39	B. Com IIIYear		Minor/Open Internet & it's Applications	On successful completion of this course, the students will be able to: • Understand the features and applications of Internet. • To trouble shoot day to day problems with internet. • To understand basics of networking and web designing to use internet effectively for official and domestic application. • To build e-commerce websites.

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			Vocational-Web Technologies	- Create different types of design formats. - Using different fonts, grids and layouts for Creating Designs in Canva. - Build Single Page Applications using AngularJS Integrate forms with AngularJS. - Organize code using modules and Configuring routes - Define business logic using controllers - Provide new behaviors to HTML using AngularJS directives. - Extend AngularJS with custom directives, filters and services - Enhance the UI using animations and Bootstrap.
BBA				
40	BBA I Year		BUSINESS MANAGEMENT (MAJOR I)	Use critical thinking skills to solve problems and make decisions based on accepted business principles. - Recognize the interrelatedness of international and domestic businesses, societies, and governments. - Execute the four functions of management: planning, organizing, leading, and controlling. - Exhibit professional behavior appropriate for the workplace.

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					- Demonstrate ability to function effectively as a team member. - Apply effective communication skills in business settings.
				COMMUNICATION SKILLS (MAJOR II)	- To Understand and apply communication theory Critically think about communication processes and messages Write effectively for a variety of contexts and audiences Interact skillfully and ethically. - Develop and deliver professional presentations Engage in scholarly inquiry and social scientific research Recognize the effects of diversity, access, and power on communication.
				BUSSINESS STATISTICS(MINOR)	To Demonstrate an understanding of the terminology used in statistics Evaluate business information using descriptive statistics Calculate and interpret probabilities Describe discrete and continuous probability distributions and calculaterelevant probabilities Estimate a population mean and population proportion using simple random samples Formulate statistical hypothesis tests.
				BASIC OF BUSSINESS	To Explains the environment of the business.

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				STUDIES (OPEN ELECTIVE)	Tells about types of companies knows about the business historylists the objectives of a business Explains the concept of management and management principles. Explains the concepts of manager and leadership. Evaluates the size and capacity of a business.
				FINANCIAL SERVICES AND INSURANCE (VOCTIONAL)	To have basic institutional and practical knowledge supported by textbooks including up-to-date information in the field of Banking and Insurance, To have knowledge of banking, insurance and capital market law besidesfundamental legal knowledge To keep up with developments in financial markets.
41	BBAII Year			HUMAN RESOURCE MANAGEMENT Major I	Demonstrate proficiency in fundamental human resources theories and concepts and how they apply to real world situations. Formulate human resources policies and practices that help promote the organization's strategic goals Students will understand how organizations link training programs to organizational needs. Students will learn how organizations evaluate jobs and design salary structure based on that. Develop an understanding of the challenges of human resources management and successfully manage and resolve conflicts.
				ORGANISATIONAL BEHAVIOUR	Students will be able to know the organizational behavior, its important and comparison of various theories of

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				Major II	organizational behavior. This outcome of organizational behavior will introduce to several theories on management framework, role of managers, skills of managers, and manager's jobs. Examine the components and theories behind leadership, power, and politics. They can analyze real situations where leadership, power, and politics are illustrated positively and negatively Analyze various Stress management and coping strategies. Compare different organizational cultures, examine characteristics of cultures, explore global implications, and examine creating and sustaining a positive culture, and assessing the impact of culture on organizational behavior.
				MARKETING RESEARCH Minor	• Discuss the scope and managerial importance of market research and its role in the development of marketing strategy. • Provide a detailed overview of the stages in the market research process. • Develop research questions and objectives that can be addressed in a research design. • Develop an appropriate market research design for the clients. • Manage the data collection process Use

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				contemporary statistical packages to calculate and report descriptive statistics from quantitative data Interpret data analysis in the context of the identified business problem • Communicate research results in written report and oral presentation formats.
42	BBAIII Year		Personnel Management and Industrial Relations Major-1	• Get a Comprehensive understanding of the elements of Personnel Management. • Derive the utility of key principles of Personnel Management. • Understanding the job duties and responsibilities of Personnel Manager and to gain practical understanding of Personnel Audit. • Understand the industrial relation and their environmental framework. • Understand the evolution of industrial relation and their modern applicability.
			Human Resource Development Major -II	On successful completion of this course, the students will be able to: • To understand the concept of Human Resource Management. • To understand the Human Resource Planning.

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				• To understand the Human Resource Development Process. • To understand the importance of Learning and Human Resource Development. • To understand the Process of Human Resource Development.
			FUNCTIONAL MANAGEMENT Minor	On successful completion of this course, the students will be able to: - • Understand the concept of Financial Management. • Understand the concept of Personnel Management. • Understand the concept of Production Management. • Understand the concept of Marketing Management. • Understand the concept of Digital Marketing • Understand the need of Business Ethics in management
		BCA		
43	BCA I year		Computer Fundamentals, Organization and Architecture	Develops simple algorithm and flow chart to solve with programmingusing top-down design principle.
			Fundamental of Computer	• In includes the basic and preliminary

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				concepts of computers. It discusses about the various units and components of Computer System. ● The course also comprises basics of computer hardware and software including the operating systems and its concepts. This is the basic step for develop an understanding about computer system.
			Elective: Computational Mathematics	• Implement trigonometric solutions for measurements in real worldscenarios. • Implement matrices and simultaneous equation to solve complexproblems. • Use statistical tools efficiently. • Use mathematical logic and predicate calculus for solving problems. ● Apply the concepts of set theory for finding solutions to set relatedproblems.
			Elective: Discrete Mathematics	• Apply the Boolean algebra, switching circuits and their applications. • Minimize the Boolean Function using Karnaugh Map. • Understand the lattices and their types. • Graphs, their types and its applications in

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				• study of shortest pathalgorithms. • Test whether two given graphs are isomorphic. • Understand the Eulerian and Hamiltonian graphs. • Represent graphs using adjacency and incidence matrices. • Understand the discrete numeric functions, generating functions andRecurrence Relations
			Elective: Probability and Statistics	• Calculate Probabilities using the addition and multiplication rules. • Recognize and understand discrete and continuous probability distribution functions, binomial, uniform and exponential probability distribution. • Calculate and interpret the correlation coefficient. • Understand the basic concepts of linear regression and correlation. • Interpret the student's t probability distribution, chi-squaregoodness-of-fit, F and Z test.
44	BCA II Year		Programming with C++& Data Structure	• Discusses concepts of object-oriented paradigm with principles ofclasses, objects and functions. • Apply algorithms, flowcharts and applications of graphs and trees tosimplify real time problems. • To understand the abstract data types stack, queue,

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				deque, and list.
			Software Engineering	• Plan a Software Engineering life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements. • To develop understanding of advance software engineering tools essential for software project management, time management. •
			Operating System	• Explain various memory management techniques and concept of thrashing Recognize file system interface, protection and security mechanisms. • Explain the various features of distributed OS like Unix, Linux,windows etc.
			RDBMS Concepts & Oracle	• Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models. • Learn and apply Structured Query Language (SQL) for database definition and database manipulation.
			Web Technology &	Explain the history of the internet and related

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			application	internet concepts that • are vital in understanding web development
			development using .Net& C#	• Discuss the insights of internet programming and implement complete application over the web. • Java Script and CSS etc. and identify the environments and • applications in the market of web site designing.
			Computer based Numerical and Statistical Techniques	• To provide conceptual understanding of various numerical methods,in particular, with reference to numerical solution of nonlinear equations and system of linear equations. • Important the orems and various formulae to be covered with anobjective of assist students to understand the fundamentals, • principles and application.
45	BCA III Year		Computer Network, Internet Technology & Security	• Identify information security goals, classical encryption techniques. • Understand, compare and apply different encryption an decryption • techniques to solve problems related to confidentiality and authentication.

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				demonstrate expertise in configuring host and network level technical security controls, to include • host firewalls, user access controls, host logging.
			Core Java	• To inculcate knowledge on Java Programming concept Knowledgeof creating java applications programs that solve simple business problem. • Knowledge of compile and execute java programs using class, • object, constructors, destructors, inheritance, etc
			MIS	• The course develops an understanding in students for the importance of Information Systems in management. • It discusses various Information System solutions like ERP, CRM,Data warehouses and the successful implementation of these technology solutions. • define an information system from both a technical and business perspective and distinguish between computer literacy andinformation systems literacy.

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				Python Programming	• To understand why Python is a useful scripting language fordevelopers. • To learn how to use exception handling in Python applications forerror handling. • To develop the skill of designing Graphical user Interfaces in • Python.
				E-Governance	• understand the concept of e-government, and the associated benefitsand drawbacks. • understand the basic principles of biometric identification andverification systems. • understand how a relational database differs from a flat database, including the function and construction of a joining table.
				Principal and Practices of management	• Specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances. • Evaluate the global context for taking managerial actions of planning, organizing and controlling. • Assess managerial practices and choices relative to ethical • principles and standards.

JITENDRA KUMAR

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				Foundation Course
46	All IYear	FC I	English Language and Indian Culture	Through this course the students will be able to: • Prepare for various competitive exams by developing their Englishlanguage competence. • Promote their comprehension skills by being exposed to a variety oftexts and their interpretations. • Build and enhance their vocabulary. • Develop their communication skills by strengthening grammar andusages. • Inculcate values which make them aware of national heritage and • environmental issues, making them responsible citizens.
47	All IIYear	FC II	English Language and Foundation	Through this course the students will be able to: • Strengthen their grammar and vocabulary. • Acquire and develop LSRW (Listening, Speaking, Reading, and Writing) skills. • Learn to think creatively and critically. After the completion of the course, students are expected to gain competency and proficiency in English language to perform at professional and personal level as well as to face competitive examinations at State and National level.
48	All IIIYear	FC II	English Language and Communication Skills	Through this course the students will be able to:

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				• Prepare for various competitive exams by developing their competence in English Language. • Promote their comprehension and communicative skills by being exposed to a variety of texts and their interpretations. • Build and enhance their language competence through regular practice. • Develop their knowledge of English Grammar and usages in a practical manner.
49	All IYear	FC I	भाषा एवं संस्कृति	• उत्कृष्ट साहित्यिक पाठो के अध्ययन रन रूचि का विकास कर विद्यार्थियों के बौद्धिक दक्षता का बढाना। • सांस्कृतिक चेतना राष्ट्रीय भावना एवं लोक संग्रह की भावना का विकास कराना। • सामान्य शब्दावली और विशेष शब्दावली के अध्ययन द्वारा भाषा एवं संस्कृति बोध का विकास करना।
				• विशिष्ट शब्दावली (बीज शब्द) की वर्ई से परिचित करवाते हुए बोध के स्तर का विकसित करना। 1. भाषा ज्ञान उत्पत्ति, इतिहास आदि के महत्व एवं प्रतियोगी परीक्षाआ हेतमानसिकता तैयार करना।
50	All IIYear	FC I	आधार पाठ्यक्रम हिंदी भाषा	• भारतीय ज्ञान परंपरा से विद्यार्थियों को अवगत एवं लाभान्वित कराना

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				• उत्कृष्ट साहित्य पाठों के अध्ययन से रूचि का विकास करना
				• भाषा ज्ञान का विकास करना
				• सामान्य शब्दावली और विशेष शब्दावली के अध्ययन द्वारा भाषा एवं संस्कृति बोध का विकास करना
				• विशिष्ट शब्दावली से परिचित करवाते हुए बौद्ध स्तर को विकसित करना
				सांस्कृतिक चेतना और राष्ट्रीय चेतना का विकास करना
51	All III Year	FC I	आधार पाठ्यक्रम हिंदी भाषा	• इस पाठ्यक्रम के अंतर्गत अध्ययन से हिंदी विषय के प्रसिद्ध रचना का एवं उनकी प्रसिद्ध साहित्यिक रचनाकरो एवं उनकी रचनाओं से परिचित हो सकेंगे
				• पठित रचनाओं के माध्यम से विद्यार्थी देश की सभ्यता एवं संस्कृति से परिचित हो सकेंगे
				• पाठ्यक्रम के अध्ययन से विद्यार्थियों के व्यक्तित्व का बहुमुखी विकास होगा एवं रोजगार के अवसर उपलब्ध होंगे
				• विशिष्ट शब्दावली से परिचय करवाते हुए विद्यार्थियों के बौद्धिक स्तर को विकसित करना
52	All I Year	FC II	Yoga and Meditation	completion of this course, student will be able to: • Equip themselves with basic knowledge about their personality. • To learn to handle themselves well in all life situations,

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				To learn techniques of gaining good health.
53	All I Year	FC II	Environment	• To study about environment and ecosystems. • To study about different types of natural resource. • Knowledge and concept of biodiversity and its conservation. • Basic knowledge and concept of causes, effect and control ofdifferent type of environmental pollution. • To study population growth and its impact on environment.
54	All II Year	FC III	Environment	• Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. • Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. • Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. • Reflect critically about their roles and identities as citizens, • consumers and environmental actors in a complex, interconnected world.

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55	All III Year	FC III	Digital awareness & Cyber Security Compulsory for all Third-Year students	After completing the course, student will be able to : ● Make optimum use of web browsers, search engines and Chatbots ● Creating e-mail account, sending, receiving and managing emails. ● Describe reporting procedure of phishing emails. ● Identify email phishing attack and preventive measures. ● Configure security settings in Mobile Wallets and UPIs. ● Practice safe, legal and ethical means of using Information Technology. ● Practice and use the various online financial and government services of day-to-day use. ● Understand the basic concepts related to E-Commerce and digital payments. ● Discuss cyber security aspects, RBI guidelines and preventive measures against digital payment frauds. ● Explore and learn the online available courses of his/her interest. ● Use the Digi locker and Academic Bank of Credit. ● Describe the concept of Cyber security and issues and

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				challenges associated with it. .
				● Explain the process of reporting cybercrime at Cybercrime Police Station/ at online platform.
				● Appreciate various privacy and security concerns on online social media.
				● Guide through the reporting procedure of inappropriate content.
				● Perform privacy and security settings for popular social media platforms.
Open Elective NCC				
56	All I Year	NCC	Open Elective	• Know about the history of NCC its organization and incentives ofNCC for their career prospects. • Acquire knowledge of duties and conduct of NCC cadets. • Understand about difference NCC camp and their conducts. • Understand the concept of national integration and its importance. • Understand the concept of self-awareness and emotionalintelligence. • Understand the concept of critical and creative thinking. • Understand the process of decision making and problem solving.

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				• Understand the concept of team and its functioning.
57	All Year II Year	NCC	Open Elective	The students will understand the role of NCC in different walks of life. They will come to know the importance of time management, national integration, social services, and community development. Give awareness to the youth about environment and importance of tree plantation in developing a clean and pollution free environment. Learn the road safety rules
58	All III Year	NCC	Open Elective	The students will understand the role of NCC in different walks of life. They will come to know the basic information of map reading, Field Crafts, Fire discipline, Civil defense and disaster managements It also give awareness to the youth about different weapons of Army, Navy and Air Force. They will also come to know about the importance of Yoga for health and concentration. Students will also know the procedure of SSB and interview skills.
Vocational Subject				
59	All I Year	DTP		• Understand basic of computer and its related terminology. • Write edit & print document using Ms-word & Excel. • Understand various software used for desktop publishing and would be able to create and design

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				document with text and graphics like newspaper ad, wedding card, visiting cards, greeting cards etc. ● Using PageMaker, CorelDraw & Photoshop, understand color concept in printing.
60	All I Year	Personality Development V1- PSY-DEVT		After studying this course, the student will be able to– ● To cultive skills for successful life and learn to handle failures. ● To learn the process of goal setting and SWOT analysis. ● To understand the importance of time and stress management. ● To develop care skill for employability. ● To develop effective communication skills. To realize the role of technology in personality development.
61	All *Year*	V2- PSY- DVT		After studying this course, the student will be able to: Students will gain knowledge about the basics of Personality Dynamics. ● Students will learn to implement techniques of Personality Development. ● Students will develop skills of self-resilience and assertiveness in their personality. ● Students will learn Interview skills.

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					• Students will be able to understand about the importance of life skills needed for personality development
62	All Year	I	Organic Farming		• Prepare media for protected cultivation. • Demonstrate irrigation and fustigation, green house operations irrigation and fustigation, care and miniatous of protected structure. • Demonstrate special horticultural practices in protected cultivation. • Identify and control of insect-past and diseases harvest and post-harvest practices.
63	All Year	I	Accounting andTally		• Understand the elements of electronic accounting process. • Apply the basics of accounting with the help of sophisticatedsoftware like Tally. • Create a company, ledgers and groups creation, stock groups, stock items, stock units formation, various vouchers entry etc in tally software. • Make adjustment entries through Tally and produce financialstatements like P & L account balance sheet etc. Develop skills to prepare account manually and

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				computerized
			Course Outcome for Pg Course	
01	MAI Sem	Sociology	Classical Sociological Tradition I	• Students will get further in-depth knowledge about the classical theories of eminent sociologist Emile Durkheim as well as classicaltheories of Max Weber and Wilfred Pareto which enriched the subject of sociology.
			Methodology of SocialResearch-I	• Students are able to understand Nature of Scientific Method in Social Science Research. Quantitative and qualitative approach toResearch. And Promotes towards research.
			Rural Society in India I	• Students will get to know Major Agrarian Movements in India,Globalization and its Impact on Agriculture, as well as Rural. • Reconstruction in India.
			Urban Society in India I	• Student will be able to understand the classical sociological traditionas urban and city dimension. • Student will be aware to the emerging trends in urbanization. • Student will be able to understand the changing occupational structure and its impact a social structure.

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02	MAII Sem	Sociology	Classical Sociological Tradition II	• Students will get further in-depth knowledge about the classical theories of eminent sociologist Emile Durkheim as well as classicaltheories of Max Weber and Wilfred Pareto which enriched the • subject of sociology.
			Methodology of SocialResearch-II	• Students will understand how to collect, analyze and interpret empirical evidence in sociological research and they will be acquainted about the role of evidence in social sciences and how to conduct both qualitative and quantitative sociological research.
			Rural Society in India II	• Students will get to know Major Agrarian Movements in India, Globalization and its Impact on Agriculture, as well as RuralReconstruction in India.
			Urban Society in IndiaII	• Student will be able to understand the classical sociological traditionas urban and city dimension. • Student will be aware to the emerging trends in urbanization. Student will be able to understand the changing occupationalstructure and its impact a social structure.
				• The ability to understand the evolution of sociology of Family and Kinship, and related theoretical

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03	MAIII Sem	Sociology	Sociology of kinship marriage & Family	developments. • The ability to examine the major issues in family and kinship bothat the global as well as at the Indian context. • The ability to analyses the changing nature of contemporary kinship • relations in the modern world.
			Indian Society and Culture	• To develop an understanding of social environment • To develop an understanding of cultural environment Understanding the linkages among social, cultural and scientific/business environment.
			Sociological essay	• Sociology is a subject that covers vast sub-topics under it. The studyof the society, the social changes, social lives and social causes is what is known as sociology. The word sociology has been derived from a Latin and Greek word. In layman terms, sociology means • understanding human behavior.
			Criminology	• Through the development of an understanding of theories of crime, law and criminal justice system students can demonstrate the role of criminological theory as framework for understanding crime rates, patterns and forms of crime and changing profile of Criminals and crime.

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04	MAIV Sem	Sociology	Theoretical perspective in sociology	• The ability to comprehend the key ideas of the leading socialthinkers in contemporary times. • The ability to examine major schools of thoughts and theoretical perspectives in Sociology.
			Sociology of change & Development	• Ability to comprehend concept of development from various sociological perspectives with global, comparative, and historicaldimensions. • Ability to examine the emerging perspectives in developmentsociology. • Ability to grasp the contemporary issues and challenges centered on the ideas and practices.
			Political Sociology	• Provides knowledge of major theoretical approaches in politicalsociology. • Provides a broad introduction to the rich research about civilsociety, citizens, culture and behavior, how these fields have developed over time and where they stand today. • Acquire habits of socio-political information: finding, sorting andcritical examining. • Reflect on the utility of political sociology as a way to understand social problems.
			Industrial Sociology	• Ability to describe the concepts and theoretical

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					• perspectives related to the workings of an industrial society • Ability to explain and apply their understanding to specific issues of industrial organization and industrial relations Ability to examine these concepts in the specific context of India.
MA Economics					
05	MA I Sem	Economics	Advanced Economic Analysis I		• To provide the knowledge about consumer behavior regarding market and production units of the firm and get knowledge of various Production theory
			Macro Economics		• To provide the conceptual knowledge regarding economics policies at national and international level. Theories of employment and student understand concept of money component.
			Public Economics		• To develop the conceptual frame work about government public economics policies and annual budgeting.
			Quantitative Techniques		• To provides the statistical and mathematical approach to understand economic principles and policies.
			Advanced Economic		• This is a capstone course that focuses on applying economic modelling and analytical techniques acquired

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06	MAII Sem	Economics	Analysis II	during the BEc(Adv) degree to important contemporary economic questions. Enrolment isrestricted to BEc(Adv) students. By the end of the course, the students will have learned how advanced economic research is employing economic theory and analytical tools to standard macroeconomic problems. Fields of application may include therole of income, wealth and uncertainty to consumption and savings decisions; the determinants of investment, growth and unemployment.
			Montary Economicsand Banking	• The course provides analytical tools and empirical models for research in the monetary and banking fields to have a good understanding of the basic concepts of monetary and banking economics, empirical theories and models covering money demand and money supply monetary policy and its transmission to the economy, monetary policy framework, inflation, central banking, financial and banking sectors.
			Research Methods and statistical inference	• Understand the limitations of particular research methods develop skills in qualitative and quantitative data analysis and presentation. The student has basic theoretical knowledge about fundamental principles for statistical inference. The student has knowledge about construction of point and interval estimators, and

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			International	This course proJAvIiNdes an analysis of the economic relationships
			Economics	between countries, covering both trade and monetary issues. deals with international trade theory and policy. You will explore important topics such as why countries trade with each other and theeffect of international trade on welfare and income distribution. the course considers international macroeconomics. Covering key topics such as the balance of payments accounts, open economy income identities, the liquidity trap, and the effect of currency valuations, you will gain a comprehensive understanding of the current policy environment and its impact on international trade relations.
07	MAIII Sem	Economics	History of economics thought	• The history of economic thought is the study of the philosophies of different thinkers and theories in the subjects that latter became political economy and economics, from the ancient world to the • present day in the 21^{St} century. Transfer of academic and technical knowledge and technology aswell as foreign direct investment (FDI) flows can motivate

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				economic growth; • economic growth might create the conditions for a country to have acompetitive advantage in the trade with other countries; • Trade and economic growth are independent; • There is a negative relationship between trade and economic growth, which is usually attributed to imports being higher than exports that affect economic growth negatively. • Student also understand how to reduce global poverty and improvepeople's living conditions and standards; to support sustainable economic, social and institutional development; and to promote regional cooperation and integration.
			Labor economics	• This course is designed to introduce students to economic models ofthe labour market, both theoretical and empirical. Illustrations from current policy debates are used. After completing this course, students will be able to describe key features of the labour market, analyse models of the labour market in order to make predictions concerning the impact of public policy recommendations, and evaluate existing data relating to these predictions. Topics include the

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				supply of labour and accumulation of human capital; demand forlabour in competitive and non-competitive markets; labour unions; the determination of equilibrium wages; wage discrimination; policies such as minimum wage laws, welfare reform, and trade.
			Industrial economics	• This course provides an introduction to current theory and empiricalwork in Industrial economics. • Starts by examining the internal structure of firms. It then moves on to the analysis of various aspects of strategic interaction between firms and the determinants of industrial structure. Finally, it discusses the role of policy in the context of competition and industrial policies and regulation. The emphasis will be throughout on understanding how the theoretical tools can be used to analyse real world issues. The theory will be confronted against empirical evidence, and its implications for public policy and business strategy will be discussed.
08	MAIV Sem	Economics	Economics of growthof Development	• The course covers the following topics: the meaning and measurement of economic development, growth theories, poverty and income distribution, the role of geography and institutions, fertility and population

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				growth, the role of credit markets and microfinance, health and nutrition, education, female empowerment.
			Indian Economic policy and issues	• Understand the basic structure of Indian Economy • Analyse the reasons behind income inequality and unemployment • Comprehensively interpret the reasons for low productivity inagriculture. • Explain the need of industrial planning and growth to fosterEconomic Development Justify the growth rate of the economy on account of planning.
			AgricultureEconomics	• Understand the agricultural policies and its effect on sustainableagricultural development. • Understand the globalization and its impact on agriculturaldevelopment. • Expose the students to production economics principles and theirapplications. • Train the students in production economics tools for agricultural decision making Able to acquire knowledge and analytical skills inaddressing the issues of agricultural marketing. • Enhancing expertise in improving the performance of the

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			Demography	• Understand the core social demographic variables, and how thesevariables influence population growth, composition, and structureUse demographic tools in understanding public health issues Knowledge attitude and practices. • Discuss global demographic regimes and impact on public health. • Identify appropriate sources of data, perform basic demographic analyses using various techniques and ensure their comparability across populations.
MA Political Science
09	MA I Sem	PoliticalScience	Modern Indian political Thought	• Student enable to understands overview of Indian Political Thought, Genesis and Development. • Student enable to understand Mahatma Gandhi's important ideas – Satya Ahinsa, Shanti, Dharma, Swadeshi, Satyagraha etc. • Students enable to understand thoughts of modern Indian political Thinker's with special ref. to Gandhi Nehru, Ambedkar, Lohiya, M.N.Rai, Arvind Ghosh and Dindayal Upadhyay.

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			Comparative Politics	The purpose of this Course is to acquaint the students with the Sub Discipline of Comparative Politics with the Following outcomes: - • Student enable to understand the significance of the comparativemethodology. • Student enable to understand the dynamics of domestic politics across the countries.
			International Relation& contemporary political issues	• Student know a brief history of international relations andcontemporary political issues. • They understand the importance of regional like SARRC, OPEC, ASEAN.
			Major ideas & issues in Public Administration	Students are able to • Understand important concepts nature, opproaches and theories ofpublic administration. • Understand the tallest developments in the field of public administration.
10	MA II Sem	PoliticalScience	Western political thought	• Understand characteristic of Greek political thought. Understand thoughts of western political thinkers plato AristotleMachiavelli, gobbes locke, rousseau etc. .
			Politics of South Asian Counties	• Understand the key political and social issues in contemporary South Asia and the public debates surrounding them; • Interpret and utilize multiple approaches and types of knowledge to inform their arguments about politics and

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				society in South Asia; Demonstrate strong oral and written communication skills.
			International Organization	Student enable to • Know the nature and evolution of international organizationAnalysis of efforts to maintain peace in world by U.K. Know the structure functions various organs of the U.K.
			Research methodology	• Student enable to Know the nature of social research, its importance and uses Understand tools and techni ques of date collection. Know application of computer in social science research.
11	MAIII Sem	PoliticalScience	Indian Government and politics	• Student enable to understand the Philosophy and salient features ofthe Indian constitution. • Student enable to appreciate the fundamental rights and duties and¬ the lirective principle of state policy. • Student enable to know the functioning and reforms of union executive union legistature and political parties.
			State Politics in india	• Students enable to know the functioning of state executive andstate legislature. • Students enable to understand the problem areas of

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				state politicsin¬ india. • Students enable to introduce the leading institutions of state political¬ system and to the changing nature of these institutions.
			International Law	• Students enable to know the origin and development of international law meaning nature scope and sources of international law. • Students enable to understand relationship between international law¬ and national law, law of neutrality and rights and duties ofneutral powers.
			Indian Foreign policy	• Students enable to know meaning nature principles and determinates of foreign policy. • Students knows India relations with U.S.A, Russia, China, Pakistan, Bangladesh, Shri Lanka, Nepal and Bhutan.
12	MAIV Sem	PoliticalScience	Federalism in India and local self-Government	• Students enable to know the nature of Indian federal system andcenter state relations in India. • Students enable to know about Zakariya commission report and their¬ effect on Indian federalism. Students enable to understand development of local – self —¬ • government after independence and 73rd and 74th

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				constitutionalamendments.
			Govt. and politics of M.P.	• Students enable to know formation of Madhya Pradesh Division of Madhya Pradesh and Determinates and Characteristics of Madhya Pradesh Politics. • Students enable to know administration in Madhya Pradesh Districts administration & Rural – Local self – Government in Madhya Pradesh.
			Advance Political Theory	• Student enables to know meaning nature and significance ofpolitical theory. • Student enables to appreciate the procedure of different theatricalideas in political theory. • Students enable to projects the global and interdisciplinary • orientation of political theory.
			Diplomacy and Human Rights	• Students enable to understand objectives, method, techniques,limitations and historical evolution of diplomacy. • Students enable to understand diplomacy as an instrument ofnational policy. • Students enable to know nature and origin of development of • concept of human rights.

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				M.Com	
13	M.Com I Sem			Management Concept	• To make the students understand the basic conceptual knowledge and scope of management function.
				Business Environment	• To make the students understand the changing nature of thebusiness environment in the context of national economy. • To understand the economic, social, political factors that determines the business utility of a nation.
				Advanced Accounting	The objective of this course is to familiarize the students with practical application of advance accounting methods with reference to current scenario.
				Cost Analysis and Control	• The objective of this paper is to provide necessary and detailed information about cost accounting in a practical way.
14	M.Com II Sem			Corporate Legal Framework	• The objective of this course is to provide basic concept, rules, regulation about corporate legal framework.
				Functional Management	• The objective of this paper is to provide basic knowledge about functional management
				Advance statistics Analysis	• The objective of this course is to achieve a deep understanding of particular statistical methods and to learn to use some advanced tools for analyzing and developing statistical methods.
				OrganizationBehaviors	• The purpose of this paper is to examine and critically

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				assess a number of key concepts and issues associated with behavior in organizations as well as change models and approaches that set out to explain the management of change in an organizational context
15	M.Com III Sem		Accounting for Managerial Decision	• The objective of this course is to familiarize the students with various tools and techniques of management accounting which isuseful for taking managerial decision in current scenario.
			Entrepreneurship Skill Development	• The objective of this course is to familiarize the students with entrepreneurship skill development programs so that they can become self-employed.
			Managerial Economics	• The objective of this course is to provide detailed information about those aspects of economics which are relevant for decisionmaking.
16	M.Com IV Sem		InternationalMarketing	• This course will enable students to learn analytical skills required to develop international marketing plans and develop the marketing mix elements in the international environment.
			Rural Agriculture Marketing	• The objective of this paper is to provide knowledge about basic concept of Rural Agriculture Marketing.
			Advertisement andSales Promotion	• Through this course Advertisement and Promotion students will

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				learn about the principles and significance of advertisement and sales promotion techniques for setting up business.
			Consumer Behavior	• To develop an understanding of consumer behavior from a variety of perspectives (multicultural, interdisciplinary, etc.) and to develop and evaluate marketing strategies intended to influence those behaviors.
M.Sc. CS				
17	M.Sc. I Sem	MSCS-101	Discreet mathematics structure	a) Perform operations on various discrete structures such as sets, functions, relations, and sequences. b) Ability to solve problems using Counting techniques, Permutation and Combination, Recursion and generating functions. c) Apply algorithms and use of graphs and trees as tools to visualize and simplify Problems. d) Apply algorithms and use of graphs and trees as tools to visualize and simplify Problems. e) Use of K-Maps and Truth Tables to construct and verify correctness of a Boolean expression. Course Outcomes: Upon completing the course, students will be able to: • Learn a particular set of mathematical facts and know how to apply them. • Think logically and mathematically. • Use and analyze

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				recursive definitions. • How to count some different types of discrete structures. • Techniques for constructing mathematical proofs and to reason about the efficiency of an algorithm.
		MSCS-102	Programming skillswith C++	To Understand the basic language implementation techniques. Develop ability to learn new languages more quickly. To understand the concept of functional programming language. Develop ability to learn and write small programs in different programming languages.
		MSCS-103	Computer organization andarchitecture	a) Study of logic gates and realization of OR, AND,NOT AND XORFunctions using universal gates. b) Design and implement combinational circuits like half adder/full adder, half subtractor/full subtract or, code converters, comparators,MUX/DEMUX. c) Design and implement sequential circuits like flip-flops, counters and shift registers d) Study of 8-bit DAC and 8-bit ADC. a) Apply the principles of number system, binary codes and Boolean algebra to minimize logic expressions. b) Develop K-maps to minimize and optimize logic functions up to 5 variables. c) Acquire knowledge about various logic gates and logic families and analyze basic circuits of these families. d) Design various combinational and sequential circuits such asencoders, decoders and counters using multiplexers and flip

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				– flops. e) Describe and compare various memory systems, shift registers and analog.
		MSCS-104	Office tools	• Describe the usage of computers and why computers are essentialcomponents in business and society. • Utilize the Internet Web resources and evaluate on-line e-businesssystem. • Solve common business problems using appropriate InformationTechnology applications and systems. • Identify categories of programs, system software and applications.Organize and work with files and folders. • Describe various types of networks network standards and communication software.
18	M.Sc.II Sem	MSCS-201	Data structure and algorithm	• Understand and remember algorithms and its analysis procedure. • Introduce the concept of data structures through ADT includingList, Stack, Queues. To design and implement various data structure algorithms. To introduce various techniques for representation of the data in the real world.
		MSCS-202	Advance computer networks	To develop application using data structure algorithms. Compute the complexity of various algorithms. a) Understand computer network basics, network architecture, TCP/IP and OSI reference models. b) Identify and understand various

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				techniquesand modes of transmission. c) Describe data link protocols, multichannel access protocols and IEEE 802 standards for LAN. d) Describe routing and congestion in network layer with routing algorithms and classify IPV4 addressing scheme. e) Discuss the elements and protocols of transport layer. f) Understand network security and define various protocols such as FTP, HTTP, Telnet, DNS.
		MSCS-203	Advanced RDBMS	a) Define database system concepts and apply normalization to the database. b) Explain the basic processing and optimization techniques for high level query. c) Describe different transaction processing concepts and use different concurrency control techniques. d) Discuss different types of databases such as object oriented and distributed databases. e) Identify different types of database failures and techniques to recover from such failures. f) Discuss advanced database technologies and products used in enterprise. DBMS LAB:- a) Implement Basic DDL, DML and DCL commands. b) Understand Data selection and operators used in queries and restrict data retrieval and control the display order. c)Write sub queries and understand their purpose. d) Use Aggregate and group functions to summarize data. e) Join multiple tables using differenttypes of joins f) Understand the PL/SQL architecture and write PL/SQL code for proc.

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		MSCS-204	Information Storage management	1. Master the basic concepts and appreciate the applications of databasesystems. 2. Master the basics of SQL and construct queries using SQL. 3. Be familiar with a commercial relational database system (Oracle) bywriting SQL using the system 4. Be familiar with the relational database theory, and be able to writerelational algebra expressions for queries. 5. Mater sound design principles for logical design of databases, including the E-R method and normalization approach.
9	M.Sc.III Sem	MSCS-301	Linux and Shell Programming	Be familiar with basic database storage structures and access techniques: file and page organizations, indexing methods includingB-tree, and hashing. Master the basics of query evaluation techniques and and query optimization. Be familiar with the basic issues of transaction processing and concurrency control. (optional) Master working successfully on a team by design and development of a database application system as part of a team. Textsand Other Course Materials: Choose appropriate UNIX/Linux operating system commands to makeeffective use of the environment to solve problems • Write efficient, effective scripts with documentation • Research the

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				Internet for information and resources utilizing new commands.
		MSCS-302	Compiler design	a) Understand the basic concepts of Computation formal languages, automata and grammar types, as well as the use of formal languages and reduction in normal forms b) Demonstrate the relation between regular expressions, automata, languages and grammar with formal mathematical methods c) Design push down automata, cellular automataand Turing machines performing tasks of moderate complexity d) Analyze the syntax and formal properties, parsing of various grammars such as LL(k) and LR(k) e) Describe the rewriting systems and derivation languages . Students will try to learn: 1. To learn fundamentals of Regular and Context Free Grammars andLanguages To understand the relation between Regular Language and Finite Automata and machines. 3. To learn how to design Automata's and machines as Acceptors,Verifiers and Translators. 4. To understand the relation between Contexts free Languages, PDAand TM. 5. To learn how to design PDA as acceptor and TM as Calculators. 6.To learn how to co relate Automata with Programs and Functions.

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		MSCS-303	Programming Skills with JAVA	To learn database programming using Java To study web development concept using Servlet and JSPTo develop a game application using multithreading. To learn socket programming concept
		MSCS-304-Elective(iii)	Software Engineering	a) Plan a software engineering process life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements. b) Able to elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project. c) Analyze and translate a specification into adesign, and then realize that design practically, using an appropriate software engineering methodology. d) Know how to develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice. e) Able to use modern engineering tools necessary for software project management, time management and software reuse.
				• To study the basic technologies that forms the foundations of BigData. • To study the programming aspects of cloud computing

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20	M.Sc.IV Sem	MSCS-401	Big Data Analytics	• with a viewto rapid prototyping of complex applications. • To understand the specialized aspects of big data including bigdata application, and big data analytics. • To study different types of case studies on the current research and applications of the Hadoop and big data in industry
		MSCS-402	Multimedia and Computer Graphics	• The course introduces the basic concepts of computer graphics. It provides the necessary theoretical background and demonstrates the application of computer science to graphics. The course furtherallows students to develop programming skills in computer graphics through programming assignments.
		MSCS-403	PHP & MYSQL	• This course provides the knowledge necessary to design and develop dynamic, database-driven web pages using PHP that powers many websites. It originally started out as a way to make dynamic websites by generating html. Because of its roots, it is very easy to insert bits and pieces of PHP inside of standardHTML/XHTML code. Participants will be using MySQL which is a popular relational database management system. It is the standard database system available on web hosting sites. Althoughit works with many different programming languages, it is frequently paired with PHP.
				• Demonstrate a good understanding of the basic

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		MSCS-404 Elective-II	Enterprise Resource Planning	issues in ERPsystems • Analyse the strategic options for ERP identification and adoption • Design the ERP implementation strategies Understand the need of Business Systems and Processes throughstrategic analysis of ERP systems.

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