

GOVT. COLLEGE BALRAMPUR (C.G.)

Name and subject code of the subject conducted in the college

S.n.	Department	Course Code	Subjects	Subject Code	course outcome
1			Sociology	13	Course outcome:- Students would be able to gain knowledge about the emergence and development of Sociology and the pioneers of the subject like Auguste Compte, Karl Marx, Emile Durkheim, Max Weber, Vilfredo Pareto etc. and some of their important classical theories along with the development of sociological thoughts in India.
2			hindi lit.	03	Course outcome: 1. Students will know the life philosophy and literary features of Kabir Das. 2. In this question paper, students understand the composition skills of Malik Muhammad Jayasi and his different description. 3. Students will get the knowledge about Surdas and his Bal Leela. 4. Students will learn the composition process of Goswami Tulsi Das and the samanywad of Tulsi. 5. Students will learn about the love poetry of Ghananand and the free poetry stream of Ritikaal.
3			FC Hindi Bhasha for BA, BSC, B.COM	01	Course Outcome: Students are able to: 1. To understand the basic concept and subject of Hindi language 2. To make the importance of functional Hindi & its Branches. 3. To understand various aspect of Hindi language with a process to reach method and giving new mode and direction. 4. To make a attempt in different area and theory such as vocabulary and vice versa 5. To understand in the hindi language more in a border area then mary confined to subject. 6. Evaluating the concept of Hindi from past to present and making the society more closely through literature.

4	B A I - 101	Political Science	11	Course Outcome: 1. To demonstrate knowledge of key thinkers and concepts 2. To understand the nature, methods and significance of political thought. 3. To analyse the theory of ancient & medieval political thought of Greek and India. 3. To appreciate the ideas of them in context of classification of government, law and revolutions and slavery.
5		FC English Lang.	02	Course Outcome: They get acquainted with the different forms of poetry, prose, fiction and drama. The courses offered enable the students to get exposed to advanced level of grammatical patterns and usages in English. They are able to improve their skills to speak and write English accurately.
6		english Lit.	04	Course Outcome: English majors will be able to: Identify literary techniques and creative uses of language in literary texts. Adapt their texts to particular audiences and purposes. Articulate a thesis and present evidence to support it
7		History	09	Course Outcome: Identify and define various kinds of sources and understand how evidences are notified. Compare and contrast various stages of progress from Indus valley civilization to Vedic age and analyze the Jain, Buddhist and Vedic faiths. Increase the awareness of transition from territorial states to emergence of empires.
8		ENVIRONMENTAL STUDIES	99	Course Outcome: An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function. An Environmental Studies major will be able to apply lessons from various courses through field experiences. (a) Creating the awareness about environmental problems among people. (b) Imparting basic knowledge about the environment and its allied problems. (c) Developing an attitude of concern for the environment. (d) Motivating public to participate in environment protection and environment improvement.

9	Sociology	13	<p>Course Outcome: 01: The students understand the origin of sociology and its scientific and professional importance. 02: The students understand the basic concepts like, society, community, social group, culture, values, role and status etc. 03: The students understand the agencies of socialization and social control.</p>
10	hindi lit.	03	<p>Course Outcome:</p> <ol style="list-style-type: none"> 1. Students will learn the poetic features of Nirala, looking at the semantic and shadowy features inherent in Nirala's poems. 2. Along with studying the poetry of Maithilisharan Gupta, students will also study the nationality of Maithilisharan Gupta. 3. Along with reading the poems of Makhanlal Chaturvedi, popularly known as an Indian soul, students will study the spirit of nationalism not in those poems.
11	FC Hindi Bhasha for BA, BSC, B.COM	01	<p>Course Outcome:</p> <p>Students can work anywhere in India, as they know Hindi - Our National Language. In many other countries also, Hindi is used as an Official Language as well as second Language. So they can easily be employed easily in those countries also. As they are Practicing Translation from Hindi to English and English to Hindi and some other Languages as well, they can become Translators in many Central Govt Offices. They are learning Poetry and Grammar -so they can become creative writers or poets are authors. By Reading and observing Drama's and one act plays they can become good actors. By having good communication skills and command over language one can becomes good speaker. Having good command over particular language one can present himself in better way. Learning Hindi in non-Hindi region definitely one can achieving anything.</p>

12	Arts	B A II - 102	Political Science	11	Course Outcome: 1. Understand the world, country, society and have awareness of ethical problems, social rights, values and responsibility to the self and to others. 2. Understand and follow changes in patterns of political behaviour, ideas and structures.
13			FC English Lang.	02	Course Outcomes 1. Enable students to attain various perspectives in reading poetry like gender, race, caste, ethnicity, religion, region, environment and nation. 2. To familiarize the learners with different forms of poetry from across the world. 3. Helps to create awareness among the learners about different forms and themes of poetry produced across the globe in the history of literature.
14			english Lit.	04	Course Outcomes 1. The students are able to identify the linguistic structures of poetic texts: symbols, metaphors, and other tropes. 2. Able to locate diverse points of view within a single text and to understand the rationale of polyphony. 3. Enable students in reading literary/cultural texts closely, beyond the literal and recognize the dominant voice/s within the text and its agendas.
15			History	09	Course Outcomes 1- Understand the foundation of the Delhi sultanate and the Sultanate administration. 2- Recognise the Socio, economic and religious conditions under Vijayanagar Empire. 3- Identify the condition of India under the Mughal Empire.4- Explain the Administration and art and architecture of Mughals.

16	Sociology	13	<p>Course Outcomes: 1. The student will be able to analyze a specific social concept as it pertains to the operation of social institutions. 2. An understanding of social problems and their study in sociology. 3. An understanding of the different concepts related to social change.</p>
17	hindi lit.	03	<p>Course Outcome:</p> <p>1. Students will learn the history of Chhattisgarhi language and literature, as well as study the works of major ancient authors of Chhattisgarhi literature.</p> <p>2. Students will also study the posts of poet Dharamdas, along with the essays of Lakhan Lal Gupta, the essayist of Chhattisgarhi literature.</p> <p>3. Students will be able to critically interpret the prose and poems of Dr. Vinay Pathak composed by contemporary writer Satyabhama.</p>
18	FC Hindi Bhasha for BA, BSC, B.COM	01	<p>Course outcome:</p> <p>Understanding the origin of Hindi language and Identifying the dialects of Hindi language family. Analysing the development of Khariboli Hindi. Understanding the concept of history of literature. Understanding the basis of the nclassification of Hindi language Understanding the importance and basis of the names given to each period of Hindi literature. Understanding the history of development and Communication Skills in Hindi. Develop Approach of Hindi Linguistics & Grammar. Get information about the Literary Theories. Learn the literary works on the basis of the foundation laid by the scholar.</p>

19	B A III - 103	Political Science	11	<p>Course Outcome: Students will be able to compare and contrast the functioning of governments and political systems in this course. The students will understand the importance of comparative method in making the discipline more positivist and scientific. The political system does not function in isolation. It operates in its own legal, economic, socio-political, and cultural environment. This paper introduces students to concepts and techniques that may be used to comprehend various political regimes in terms of the origins and functioning of governmental institutions. They will be able to critically evaluate key features of electoral democracy, such as party system, how it operates in different kinds of political regimes, the relationship between the government and the governed in democracy and dictatorship. Also, they will be able to describe how the media has altered the shape of elections and how it affects democratic elections, public opinion in different political systems.</p>
20		FC English Lang.	02	<p>Course Outcome: 1. Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioural attitude through literary subjects and shaping the students socially responsible citizens. 2. To enhance employability of the students by developing their linguistic competence and communicative skills</p>
21		english Lit.	04	<p>Course Outcome: 1. To expose students to the best examples of literature in English and to contribute to their emotional quotient as well as independent thinking and to instill universal human values through best pieces of literature in English. 2. To revise and reinforce the learning of some important areas of grammar for better linguistic competence.</p>

22			History	09	<p>Course Outcome: After successful completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Learn the foreign invasions on India and their consequences. 2. Understand the socio- economic and cultural conditions of medieval India. 3. Describe the advent of Islam in India and study the traces of Political and cultural expansion of Turks & Afghans. 4. Explain the administration, Art and architecture of Vijayanagara Rulers, Mughals and also analyze the rise of the marthas and contribution of sivaji. 5. Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels. 6. Analyze the emergence of composite culture in India.
23		B Sc I (M) -	math	26	<p>Course Outcome: 1.Calculate the limit and examine the continuity and any Course Learning Outcome (CLO). 2.understand the geometrical interpretation of differentiability. 3.Understand the consequences of various mean value theorems. 4. .Employ De Moivre's theorem in a number of applications to solve numerical problems. 5. Learn about the fundamental concepts of groups, subgroups, normal subgroups, isomorphism theorems. cyclic and permutation groups. 6. Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank. 7.Find eigen values and corresponding eigen vectors for a square matrix. 8.Understand real vector spaces, subspaces, basis, dimension and their properties.</p>

24	149	Physics	20	<p>Course Outcome: paper I 1.To develop an ability to Create Solid Models of machine components. 2. The student should be able to apply these skills to the solution of a variety of practical problems and be able to employ their knowledge to solve more complicated problems.</p> <p>paper II 1. Students should be able to calculate the electric field of a charge configuration or region of space when given its potential. 2. Students should be able to state that potential is force per unit charge, and give a conceptual description of V and its relationship to energy. 3. Apply the principles of magneto statics to the solutions of problems relating to magnetic field and magnetic potential, boundary conditions and magnetic energy density. 4. Understand the concepts related to Faraday's law, induced emf and Maxwell's equations.</p>
25		botany	26	<p>Course Outcome: 1.To understand the microbiology, plant pathology and microbial techniques which will be beneficial for agriculture and industry.</p> <p>2. To learn the life cycle of selected genera of different groups.</p> <p>3. To understand the general characteristics and affinities of bryophytes, pteridophytes and gymnosperm.</p> <p>4. To learn morphology and flower architecture of angiosperm.</p>

26		Zoology	27	<p>Course Outcome: 1. Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.</p> <p>2. Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.</p> <p>3. Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit. Explained how animals function and interact with respect to biological, chemical and physical processes in natural and impacted environments.</p> <p>4. Explained how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. Drawing upon this knowledge, they are able to give specific examples of the physiological adaptations, development, reproduction and behavior of different forms of life.</p> <p>5. Understood the applied biological sciences or economic Zoology such as sericulture, Apiculture, aquaculture, Industrial microbiology, rDNA technology and medicine for their career opportunities.</p>
27	B Sc I (B) - 150	Chemistry	21, 33	<p>Course Outcome: 1.To understand the all basic facts and concepts of inorganic and organic chemistry students will learn the atomic structure and basic concepts of organic chemistry like hybridisation conjugation field effects aroma city and reactive intermediates.</p> <p>2. Students will learn the atomic structure through the basic Concept of quantum mechanics.</p> <p>3. They will understand the chemical bonding through VBT, MOT and CFT.</p> <p>4. This organic chemistry part contains preparation and properties of aliphatic hydrocarbons.</p> <p>5. The unit has been designed to give an insight into almost all aspects of stereochemistry and to build a solid platform in this specific field.</p>

28		Computer Science	24	<p>Course Outcome: Paper I : (COMPUTER HARDWARE) Fundamental of Computer 1. Understand the history and types of computers and parallel processing concept. 2. Understand the various components of CPU. 3. Understand the concept of memory and its types. 4. Understand the various input/output devices. 5. Understand the concept of System and Application software and programming technique.</p> <p>Paper II : (COMPUTER SOFTWARE) Programming in 'C' 1. Develop programming skill and learn how to implement new software. 2. Develop programming and logical concepts which helps to build up source code of concern programming language. 3. Understand the concept of programming like Compilation, Debugging, Executing, Linking and Loading. 4. Familiar about the structure of C program. 5. Understand about the cursor movement and control structure of C program. 6. Write simple C programs using programming concepts. 7. Familiar about procedure oriented and object oriented concepts. 8. Use file handling concepts in C to develop programs for real life projects.</p>
29		ENVIRONMENTAL STUDIES	99	Course Outcome:
30		math	26	<p>Course Outcome: 1. Understand basic properties of real number system such as least upper bound property and order property. 2. Realize importance of bounded, convergent, Cauchy and monotonic sequences of real numbers, find their limit superior and limit inferior. 3. Apply various tests to determine convergence and absolute convergence of a series of real numbers. 4. Learn about Riemann integrability of bounded functions and algebra of R- integrable functions. • Determine various applications of the fundamental theorem of integral calculus. 5 Relate concepts of uniform continuity, differentiation, integration and uniform convergence.</p>

31	B Sc II (M) - 149	Physics	20	<p>Course Outcome: paper I 1. The student after undergoing this course will be able to: 1. Understand the basic concept of fluid flow and properties of fluids. 2. Understand the principles of fluid statics, kinematics and dynamics. 3. construct energy and mass balance for unsteady-flow processes. assess thermodynamic applications using second law of thermodynamics. 4. calculate thermal efficiency and coefficient of performance for heat engine. restate perpetual-motion machines, reversible and irreversible processes.</p> <p>paper II 1. Students will gain knowledge on optical phenomena, different light sources and their uses, solar cell, laser, optical fiber, and instrumentation involved. 2. explain operational principles and construction of lasers. give an account of technological issues behind laser construction. 3. describe optical components that can be used to tailor the properties of the laser.</p>
32		botany	26	<p>Course Outcome: 1. To understand the nomenclature technique and taxonomic pattern. 2. To understand the anatomical structure of flowering and plants and abnormal anatomy in special plants. 3. To learn the development biology in context to plant. 4. To understand the ecology and its profile and environmental factors. 5. To understand the plant physiology in relation to plant water relationship, photosynthesis respiration and plant growth.</p>
33		Zoology	27	<p>Course Outcome: 1. To provide Knowledge of various animals from primitive to highly evolved forms and its complexity. 2. To foster curiosity in the students for Zoology & understand potential of various branches of Zoology. 3. To equip students with laboratory skills as well as field based studies to become an successful enterpreuner. 4. To highlight biodiversity and its need of conservation. 5. To make aware about ways of conservation and sustainability. 6. To inculcate knowledge and make successful career in zoology. 7. To inculcate research attitude and aptitude among students. 8. To conduct basic and applied research which has societal and environmental value.</p>

34	Science	B Sc II (B) - 150	Chemistry	21, 33	<p>Course Outcome: 1. Know the thermodynamics and its application in all feasible systems students will also learn of all specific features of carbon and compounds. 2. To learn chemical energetics they will learn about the principle of equilibrium. 3. Able to understand electrolytic behaviour of electrolytes and the role of solubility product and pH in solutions. 4. Understand the possible modifications of aromatic compounds and alkyl halides, they will learn about different kinds of electrophilic and nucleophilic substitution reactions and their mechanism. 5. Impart knowledge to the students about organic compounds containing oxygen. Students will know the chemical reaction involved in preparation and properties of these compounds.</p>
35			Computer Science	24	<p>Course Outcome: Paper I : (COMPUTER HARDWARE)</p> <p>1. To introduce the overall organization of the microcomputers. 2. To introduce the common peripheral devices used in computers. 3. To introduce the hardware components, use of microprocessor and function of various chips used in smicrocomputer.</p> <p>Paper II : (COMPUTER SOFTWARE) HTML and OOPs using C++</p> <p>1. To introduce the internet and web related technology and learn web page designing using HTML. 2.To introduce the object oriented programming concept using C++. 3. To introduce the problem solving methodology using C++ programming features.</p>

36		ENVIRONMENTAL STUDIES	99	<p>Course Outcome: An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function. An Environmental Studies major will be able to apply lessons from various courses through field experiences. (a) Creating the awareness about environmental problems among people. (b) Imparting basic knowledge about the environment and its allied problems. (c) Developing an attitude of concern for the environment. (d) Motivating public to participate in environment protection and environment improvement.</p>
37		math	26	<p>Course Outcome: Paper 1 1. Understand Integrability and theorems on integrability. Recognize the difference point wise and uniform convergence of a sequence of functions. 2. Illustrate the effect of uniform convergence on the limit function with respect to con differentiability, and integrability. 3. Study improper integration using Riemann integration. 4. Describe fundamental properties of the real numbers that lead to the formal development of real analysis. 5. Comprehend rigorous arguments developing the theory underpinning real analysis. 6. Demonstrate an understanding of limits and how they are used in sequences, series, Construct rigorous mathematical proofs of basic results in real analysis. Paper 2 1. student will be able to perform Computations involving divisibility of Integers 2. Student will be asked to identity being- theoretic and group - theoretic properties and identify these properties to familier rings and groups. paper 3 1. To understand logical concepts and to show logical equivalences by using truth tables and rules in logics. 2. Learn concept related to counting. 3. Introduction to advanced counting</p>

38	B Sc III (M) 149	Physics	20	<p>Course Outcome: paper I 1. Failure of classical physics at the microscopic level Basic non-relativistic Quantum Mechanics Matrix representation of Quantum Mechanics They will have skills to do the following: 2. Apply principles of Quantum Mechanics to calculate observables for given wave functions Solve Schrodinger equation for simple systems like simple harmonic oscillator, hydrogen atom, particle in a box, etc. 3. Students will also gain following competence: 4. Applying non-relativistic quantum mechanics to areas like spectroscopy, nanotechnology and solid state physics.</p> <p>paper II 1. The student is able to Explain mechanical properties of solid matter, and connect these to bond type. 2. Explain how diffraction of electromagnetic waves on solid matter can be used to obtain lattice structure. Know the concept of `phonons, and how the dispersion relationship appears for different lattice structures.3. Explain how a lattice vibrates at finite temperature, and how these vibrations determine the heat capacity and conduction. Know the concept `density of states, in one, two and three dimensions. 4. Explain simple theories for conduction of heat and electrical current in metals. Classify solid state matter according to their band gaps. Understand how electrons and holes behave in semiconductors, and explain how they conduct current. 5. Explain and give simple models for Schottky and PN-junctions. 6. Explain how light emitting diodes and solar cells work. Know the basic physics behind dia, para and ferromagnetism.</p>
39		botany	26	<p>Course Outcome: 1.To learn the plant population in context to density, frequency and abundance. 2.To understand the economic importance of plants. 3. To learn the laboratory techniques and different instruments. 4.To understand the cytology and cell division. 5. To understand that tissue culture techniques. 6. To understand the importance of tissue culture micropropagation and its importance.</p>

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Zoology	27	<p>Course Outcome: 1. Understands concepts of fisheries, fishing tools and site selection.</p> <p>2. Understands about parasites and epidemiology of parasites in human and animals.</p> <p>3. Use of recombinant DNA technology in genetic manipulations and in a variety of industrial processes.</p> <p>4. Understanding of in vitro culturing of organisms and production of transgenic animals.</p> <p>5. Types of breeds in animal farming and poultry farming along with their management.</p> <p>6. Aqua culture systems, induced breeding techniques and post harvesting techniques.</p>
Chemistry	21, 33	<p>Course Outcome: 1. Gather knowledge of basic and applied areas of Analytical Chemistry as well as how to present experimental data.</p> <p>2. Understand the composition of soil and measurement of important parameters of soil.</p> <p>3. Measurement of important water quality parameters and adulterants in food items.</p> <p>4. To understand the basic concept of different types of two-dimensional chromatography and its application.</p> <p>5. To develop concept about analysis of cosmetics and metal ions in various samples using classical and instrumental method of quantitative analysis.</p>

B Sc III -

42			Computer Science	24	<p>Course Outcome: Paper I : (COMPUTER HARDWARE)</p> <ol style="list-style-type: none"> 1. To introduce the overall organization of the microcomputers and operating systems. 2. To introduce the interaction of common devices used with computers with operating software's, excluding the Assembly languages, with special reference to DOS/WINDOWS. 3. To introduce the working of hardware components, Micro-Processor and various chips used in micro-computers by operating system, without the use of electronic circuitry. 4. To introduce the use of operating systems architecture with IBM-PC & clones, excluding Assembly language, with forms an important part of hardware's. <p>Paper II : (COMPUTER SOFTWARE) RDBMS and Visual Basic</p> <ol style="list-style-type: none"> 1. To introduce Data Base Management System concepts. 2. To introduce the Relational Database Management System and Relational Database Design. 3. To introduce the RDBMS software and utility of query language. 4. To introduce basic concept of GUI Programming and database connectivity using Visual Basic.
43			ENVIRONMENTAL STUDIES	99	<p>Course Outcome: An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function. An Environmental Studies major will be able to apply lessons from various courses through field experiences. (a) Creating the awareness about environmental problems among people. (b) Imparting basic knowledge about the environment and its allied problems. (c) Developing an attitude of concern for the environment. (d) Motivating public to participate in environment protection and environment improvement.</p>

44	Commerce	B Com I - 121	I.FINANCIAL ACCOUNTING II.BUSINESS COMMUNICATION	03	Course Outcome: The process of recording, compiling, and reporting the numerous transactions occurring from corporate operations throughout time is known as financial accounting. It belongs to a specific field of accounting. You will evaluate the underlying principles of business communication, hone your writing abilities for business (applying the principles of clear communication to written communication), enhance routine business correspondence, discover how to enhance oral presentations and produce more effective reports.
45			I.BUSINESS MATHEMATICS II.BUSINESS REG. FRAME WORK	04	Course Outcome: Business mathematics offers the resources one needs to analyse and maintain these records, whereas business statistics assists in keeping track of all the basics involved in a business. Regulations and institutions that govern the entry, growth and exit of firms – including registration, licensing, inspections, property rights and others – play an important role in creating competitive markets, thereby supporting productivity gains and growth.
46			I.BUSINESS ENVIRONMENT II. BUSINESS ECONOMICS	05	Course Outcome: evaluate all the environmental factors considering with at all points such as technical, social, legal and economical aspect. make the the cost/benefit calculations of the corrective and preventive actions for environmental pollution.Demonstrate quantitative reasoning skills. Present an economic argument in quantitative terms. Demonstrate ability to solve systems of equations. Be able to conduct economic analysis using equations and graphs.
47			I. COMPUTER FUNDAMENTALS II.PC SOFTWARE & MULTIMEDIA III. PRACTICAL & VIVA VOCE	06	Course Outcome: After successfully completing this course, a student will be able to: Converse in basic computer terminology. Formulate opinions about the impact of computers on society. Possess the knowledge of basic hardware peripherals. Upon successful completion of the course, a student will be able to: • Analyze a given problem and develop an algorithm to solve the problem • Improve upon a solution to a problem • Use the 'C' language constructs in the right way • Design, develop and test programs written in 'C' • Understand the basic terminology.

48		<p>I.INDIAN TAX SYSTEM II.INCOME TAX LAW III.PRACTICAL & VIVA VOCE (TPP)</p>	07	<p>Course Outcome: Understand concepts and importance of direct tax 2. Understanding the status of persons and industries 3. Classification of allowances and calculation of income from salaries 4. Computation of annual value & deductions from income from house property. 5. To understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.</p>
49		ENVIRONMENTAL STUDIES	99	<p>Course Outcome: An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function. An Environmental Studies major will be able to apply lessons from various courses through field experiences. (a) Creating the awareness about environmental problems among people. (b) Imparting basic knowledge about the environment and its allied problems. (c) Developing an attitude of concern for the environment. (d) Motivating public to participate in environment protection and environment improvement.</p>
50		<p>I.CORPORATE ACCOUNTING II.COMPANY LAW</p>	03	<p>Course Outcome: Learning goals and objectives generally describe what an instructor, program, or institution aims to do, whereas, a learning outcome describes in observable and measurable terms what a student is able to do as a result of completing a learning experience (e.g., course, project, or unit). Company law, securities law, mergers and acquisitions, corporate finance, corporate governance, and corporate litigation are possible course topics. Legal Framework: Courses explore the statute provisions, case law, and regulatory principles that make up the legal framework that governs corporations.</p>

51			I.COST ACCOUNTING II.PRINCIPLES OF BUSINESS MANAGEMENT	04	<p>Course Outcome: Students learn about pricing, budgeting, and performance analysis to determine overall success based on predetermined objectives. Job opportunities for Cost Accounting students are excellent in India and the growth prospects are high as per the qualification of the learner. Evaluate the global context for taking managerial actions of planning, organizing and controlling. Assess global situation, including opportunities and threats that will impact management of an organization. Integrate management principles into management practices.</p>
52	Commerce	B Com II - 122	I.BUSINESS STATISTICS II.FUNDAMENTALS OF ENTREPRENEURSHIP	05	<p>Course Outcome: 1. After successful completion of the course students will be able to summarize and analyze statistical data to solve practical business related problems. 2. After successful completion of the course students will be able to interpret the relevance of statistical findings for business problem solving and decision making. 3. Identify the difference between an idea and an opportunity. 4. Assess the potential of an opportunity and to determine its viability practical, social and commercial implications. 5. Examine entrepreneurial behaviour & characteristics associated with successful entrepreneurship.</p>
53			(I)INTERNET APPLICATION AND E-COMMERCE (II)RELATIONAL DATA BASE MANAGEMENT SYSTEM III.PRACTICAL & VIVA- VOCE	07	<p>Course Outcome: 1. Understand the basic concepts and technologies used in the field of management information systems; 2. Have the knowledge of the different types of management information systems; 3. Understand the processes of developing and implementing information systems; 4. Be aware of the ethical, social, and security issues of information systems. 5. At the end of the course, the students will be able to: • Understand the basic concepts and the applications of database systems. Master the basics of SQL and construct queries using SQL. 6. Understand the relational database design principles.</p>

54		I.STATISTICAL ANALYSIS II.DIRECT TAXES :PROCEDURE & PRACTICE III.PRACTICAL & VIVA-VOCE	08	Course Outcome: 1. Students will formulate complete, concise, and correct mathematical proofs. 2. Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard techniques. 3. Students would identify the technical terms related to Income Tax. 4. Students would determine the residential status of an individual and scope of total income. 5. Students would compute income from salaries, house property, business/profession, capital gains and income from other sources.
55		INCOME TAX	03	Course Outcomes: 1. To enable the students to identify the basic concepts, definitions and terms related to Income Tax. 2. Students would identify the technical terms related to Income Tax. 3. To enable the students to determine the residential status of an individual and scope of total income.
56		INDIRECT TAX	04	Course Outcomes: 1. Understand concepts and importance of direct tax 2. Understanding the status of persons and industries 3. Classification of allowances and calculation of income from salaries 4. Computation of annual value & deductions from income from house property.
57		MANAGEMENT ACCOUNTING	05	Course Outcomes: critically analyse and provide recommendations to improve the operations of organisations through the application of management accounting techniques; demonstrate mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.
58		AUDITING	06	Course Outcomes: Articulate knowledge of fundamental audit concepts. Apply critical thinking skills and solve auditing problems through the use of case studies. Demonstrate the use of Auditing, Assurance Standards and the Code of Ethics for professional Accountants.

59	Commerce	B Com III - 123	(I)FINANCIAL MANAGEMENT (II)FINANCIAL MARKET OPERATIONS	07	Course Outcomes: Upon successful completion of Financial Management, the student will be able to: Demonstrate an understanding of the overall role and importance of the finance function. Demonstrate basic finance management knowledge. Communicate effectively using standard business terminology. Analyse how financial markets and instruments operate and how they can be used to achieve economic objectives. understand and critically engage in profits and risks faced by investors and strategies to control these profits and risks.
60			(I)PRINCIPLES OF MARKETING (II)INTERNATIONAL MARKETING	08	Course Outcomes: 1. Demonstrate an understanding of fundamental concepts of marketing. Identify the scope of marketing covering different functions of a marketing manager. Identify ethical and legal implication of marketing decisions. 2. Upon successful completion, students will have the knowledge and skills to: Classify strategies for entering export markets from extant knowledge and research. Apply core theoretical concepts in international marketing to find practical solutions to constraints of small businesses.
61			(I)INFORMATION TECHNOLOGY & ITS APPLICATIONS IN BUSINESS (II)ESSENTIALS OF E- COMMERCE	09	Course Outcomes: 1. Students will apprehend managerial decisionmaking and develop perspective of major functional areas of MIS along with conceptual study of Enterprise Resource Planning, Supply Chain Management, Customer Relationship Management, Key issues in implementation. 2. Identify the component parts of e-commerce Identify the benefits of selling online Know how to optimise and stay safe when selling online Have an outline strategy for eCommerce for your business Understand the risks around Cyber Security when trading and doing business online.
62			(I)PROGRAMING IN VISUAL BASIC (II) SYSTEM ANALYSIS DESIGN & MIS III.PRACTICAL EXERCISES	10	Course Outcomes: 1. Design, formulate, and construct applications with VB.NET. Integrate variables and constants into calculations applying VB.NET. Determine logical alternatives with VB.NET decision structures. Implement lists and loops with VB.NET controls and iteration. 2. Communicate effectively in a variety of professional contexts. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

63			(I)FUNDAMENTALS OF INSURANCE (II)MONEY & BANKING SYSTEM	12	Course Outcomes: 1. Understand the working and functioning of the Insurance Sector. Study the inter-relationship between Insurance & Risk Management. Analyze the Role of Insurance Business Intermediaries. Obtain an overview of Regulatory Framework of Insurance Sector. 2. At the end of the course, the student will able to; understand the basic concepts of banks and functions of commercial banks. Demonstrate an awareness of law and practice in a banking context. Engage in critical analysis of the practice of banking law.
64			(I)CORPORATE TAX PLANNING & MANAGEMENT (II)VIVA-VOCE II.PROJECT REPORT & PRACTICAL TRAINING	13	Course Outcomes: It will make students understand the principles underlying service tax and the basic concepts of VAT. decisions. Synthesis: This course aims at making students conversant with the concept of corporate tax planning, Indian tax laws and their implications for corporate management.
65	Arts	M A I Sem. (Hindi) 591	HINDI SAHITYA KA ITIHAS	101	Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: To understand the Origin of Hindi Literature and language. CO 2: To understand the basis of the classification of Hindi Literature. CO 3: To understand the Importance & basis of the names given in each period of Hindi Literature. CO 4: To understand the features of Adikal, Bhaktikal, Reetikal in context of Socio, cultural & political condition of that period and introduce the Writing and writers of the concerned period.
66			PRACHIN EVAM MADHYAKALIN KAVYA	102	Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: To understand the role played by the Poets of Bhakti culture in Indian literature & society. CO 2: To describe the progressive nature of Sant Kabir, Jayasi and their writings. CO 3: To describe the Rama- Bhakti poetry of Tulasidas along with the Philosophy of Bhakti Culture. CO 4: To describe the Krisna Leela poetry of Soordas by philosophy of his life. CO 5: To describe the content and skill of writings of Bihari in context of the socio cultural condition of his period.

67		HINDI BHASHA EVAM BHASHA VIGYAN	103	Expected Learning Outcomes: To help the students understand the social concepts of life style and problems faced by the farmers and common people of said period through Hindi Fiction writing.	
68		SHOD PRAVIDHI EVAM COMPUTER APPLICATION KI PRUSHTBHOMI	104	Expected Learning Outcomes: To help the students understand the concepts of reaserch and computer basics.	
69		SANT KAVI KABIRDAS	106	Expected Learning Outcomes: To help the students understand the life & social concepts of kabir das.	
70	Arts	M A II Sem. (Hindi) 592	AADHUNIK KAVY	201	Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: Identify the eminent Hindi Writers of each period. CO 2: To understand the Adhunik kavya in Hindi literature during emergency time Pre and post-independence period. CO 3: To understand the literary trends of Adhunik kavya in Hindi literature.
71			KATHA SAHITYA	202	Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: Identify the eminent Hindi Writers of modern period and to analyse its concept. CO 2 : To understand the literary trends of katha sahitya in Hindi literature.
72			BHARTIYA KAVY SHASTRA	203	Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: Identify the eminent Hindi and Sanskrit Acharya of each period. CO 2: To understand the kavya shastra ki parampara in Hindi.

73		CHHAYAWAD KAVY	209	<p>Expected Learning Outcomes: Upon the completion of this course, the students will be able to – CO 1: Identify the eminent chhayawad and chhayawad ki vishestayen. CO 2: To understand the chhayawad ke pramukh kavi Hindi literature.</p>	
74		SAMAJIK ADHIGAM AUR KOUSHAL VIKASH (PRACTICAL)	204	<p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> • To help the students understand the conceptual & strategic frame work social research. • Gets acquainted with various resource's for research. • Becomes familiar with various tools of research. • Achieves skills in various research writing. 	
75	Arts	M A III Sem. (Hindi) 593	HINDI NIBANDH EVAM ANYA GADHYA VIDHAY	301	<p>Expected Learning Outcomes:</p> <ol style="list-style-type: none"> 1.To learn the plant population in context to density, frequency and abundance. 2.To understand the economic importance of plants. 3. To learn the laboratory techniques and different instruments. 4.To understand the cytology and cell division. 5. To understand that tissue culture techniques. 6. To understand the importance of tissue culture micropropagation and its importance.
76			CHHAYAVADOTAR HINDI KAVYA	302	<p>Expected Learning Outcomes: 1, To introduce the students to the tendencies of post-Chhayavad Hindi poetry. 2, To acquaint with the development order of post-shadow Hindi poetry. 3, To give a vision of tasting, studying and re-evaluation of the creations in the perspective of the immediate form and development of post-Chhayavad Hindi poetry.</p>
77			PACHATYA KAVYA SHASTRA	303	<p>Expected Learning Outcomes: 1, To introduce the development of western literature. 2, To know the principles of western literature. 3, To make aware of new review principles. 4, To develop the critical vision of students through literary study.</p>

78		BHOUDHIK SAMPADA MANAVADHIKAR EVAM PARYAVARAN PRUSHTBHOOMI	304	<p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> • Understands the concept and place of research in concerned subject. • Gets acquainted with various resources for research. • Becomes familiar with various tools of research. • Gets conversant with sampling techniques, methods of research and techniques of analysis of data.
79		LOK SAHITYA	310	<p>Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Understanding the conception about folklore and folk culture. 2. Describing the relation and inter relation of folk culture and literature, relation of folk literature with other social sciences, facing difficulties in study of folk literature. 3. Knowing the history of Lok Sahitya in India. Describing the classification and forms of folk literature in India. 4. Studying Lok geet : sanskar geet, vrat geet, shram geet etc. 5. Describing in details the forms of folk songs, folk drama. Knowing the tradition and techniques of hindi folk drama. 6. Knowing how folk drama affected Hindi Drama and Rangmanch. 7. Understanding the folk tales, folk language, folk dance and music.
80		BHARTIYA SAHITYA	401	<p>Expected Learning Outcomes:</p> <ol style="list-style-type: none"> 1, To acquaint the students with the all India perspective of Hindi literature. 2, To give a broad introduction to the literature of non-Hindi languages. 3 To identify Indianness expressed in Indian literature. 4, To introduce translated literature in Hindi. 5, To develop the taste and evaluation of literary translation.
81		HINDI PATRKARITA	402	<p>Expected Learning Outcomes:</p> <ol style="list-style-type: none"> 1. To introduce the students to the subject of Hindi Journalism. 2. To make aware of the method of using computer in Hindi. 3. To develop the skills of the students in the practical use of Hindi in various fields.

82	Arts	M A IV Sem. (Hindi) 594	PRAYOJANMULAK HINDI	403	<p>Expected Learning Outcomes: 1: Purposeful form of Hindi was introduced.</p> <p>2: Introduction to the origin and development of Devanagari script.</p> <p>3: Introduced to various aspects of practical and practical Hindi.</p>
83			BHARTIYA MULBHASHA PALI	406	<p>Expected Learning Outcomes: 1 : The course will enable the students the sense pali bhasha philology.</p> <p>2 : It contains the tenets of Digamber Jain doctrine as well as pali language.</p> <p>3 : The history of canonical literature of both Shvetambara and Digambara is necessary for the benefit of students.</p> <p>4 : The history of classical pali bhasha literature is equally needful as it is no way inferior to Sanskrit literature. Rather, it has boosted the subsequent poets.</p>
84			LAGHU SHOD PRABANDH	404	<p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> • To help the students understand the conceptual & strategic frame work social research. • Gets acquainted with various resource's for research. • Becomes familiar with various tools of research. • Achieves skills in various research writing.
85			INORGANIC CHEMISTRY-I	101	<p>Expected Learning Outcomes: Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries.</p>
86			ORGANIC CHEMISTRY-I	102	<p>Expected Learning Outcomes: Understand the common themes running through ionic, covalent and metallic descriptions of chemical bonding, including principles of main group elements. Enhance the knowledge on metal clusters and nuclear chemistry.</p>

87	Science	M Sc I Sem. (Chemistry) 631	PHYSICAL CHEMISTRY-I	103	Expected Learning Outcomes: The master's specialization, Organic Chemistry, will give you in-depth knowledge about organic-chemical reactions with a focus on principles for effective synthesis strategies, stereo selectivity, catalysis, as well as organometallic chemistry.
88			THEORY & APPLICATION OF SPECTROSCOPY-I	104	Expected Learning Outcomes: Understand the role of symmetry in electronic spectroscopy, selection rules; Develop skills in numeracy and problem solving. The subject specific skill is the acquisition of a theoretical framework which underlies much of spectroscopy.
89			LAB COURSE-I (PRACTICAL)	105	Course Learning Outcomes: The students will acquire skills to 1. set up the apparatus for the purification, isolation, synthesis and characterization of certain compounds. 2. quantify ions by volumetric and gravimetric analysis. 3. operate and apply various spectroscopic techniques for identification and quantification.
90			LAB COURSE-II (PRACTICAL)	106	Course Learning Outcomes: At the end of course student will be able to – 1. Study the gravimetric and volumetric analysis of ores and alloy. 2. Prepare and characterize various inorganic complexes and determine its % purity. 3. To understand the chromatographic techniques. 4. Learn to calculate and understand equilibrium constant, Simultaneous determination and Effect of Temperature, time and pH on the stability of M-L systems by Colorimetry 5. Study experiments based on Thermochemistry 6. Complexometric determination using potentiometry, analysis and interpretation learn

91	Science	M Sc II Sem. (Chemistry) 632	INORGANIC CHEMISTRY-II	201	Expected Learning Outcomes: Illustrate the principles behind the Metal Ligand equilibria in solution with respect to the formation, their Kinetic and thermal stability, and determinations, crystal field theory of transition metal complexes in octahedral and tetrahedral geometry.
92			ORGANIC CHEMISTRY-II	202	Expected Learning Outcomes: Predict and account for the most commonly encountered reaction mechanisms in organic chemistry including aromatic substitution reaction, addition reactions, elimination reactions and rearrangements as well as basics of amino acids and peptides.
93			PHYSICAL CHEMISTRY-II	203	Expected Learning Outcomes: Understand concepts of partial molar properties, concept of fugacity and their determination methods including Debye-Huckel theory to strong electrolytes and also learn the thermodynamics of electrified interface.
94			THEORY AND APPLICATION OF SPECTROSCOPY-II	204	Expected Learning Outcomes: 1. Recognize spectroscopy in microwave, Rotational spectra of rigid diatomic molecules, selection rules, interaction of spectral lines 2 . Study of Vibrating diatomic molecule, energy levels of a diatomic molecule, simple harmonic and anharmonic oscillator, Scattering of light and Raman Spectrum. rotational and vibrational Raman Spectra 3. Learn Electronic spectra of diatomic molecules Born-oppenheimer approximation 4. Make Students aware of the fine structure of ESR absorption, Hyperfine structure, Double resonance in ESR, Techniques of ESR spectroscopy. 5. Understand Principles and Applications of Mossbauer spectroscopy 6. Understand concepts of Nuclear and Radiation Chemistry. 7. Applications of Radioisotopes
95			LAB COURSE-I (PRACTICAL)	205	Course learning outcomes (CLOs): The students will be able to 1. comprehend safe laboratory practices for handling laboratory equipments and chemical reagents. 2. develop experimental skills for handling of various sophisticated instruments.

96			APPLICATIONS OF SPECTROSCOPY-INORGANIC CHEMISTRY	301	<p>Course learning outcomes: The students will be able to</p> <ol style="list-style-type: none"> 1. interpret IR and Raman spectrum of inorganic complexes and assign mode of binding for ambidentate ligands 2. analyze the NQR data for chemical analysis 3. interpret EPR spectrum of coordination complexes and obtain idea about oxidation state of metal ion and ligand field 4. analyze the Mössbauer spectrum and obtain information about oxidation state as well as spin state of metal ion 5. understand the principle and instrumentation of PES and analyze the spectra for chemical analysis
97			APPLICATIONS OF SPECTROSCOPY-ORGANIC CHEMISTRY	302	<p>Learning outcomes: The intended subject specific learning outcomes-</p> <ol style="list-style-type: none"> 1. Demonstrate a good understanding of the electromagnetic spectrum and how this can be applied to the study of chemical molecules. 2. Describe the principles of spectroscopic methods such as NMR, IR and UV-Vis. 3. Demonstrate knowledge of the principles of mass spectrometry. 4. Predict number of signals, splitting patterns in the proton NMR of a compound given its structure and use this knowledge to interpret NMR spectra of simple molecules. 5. Identify the absorption frequencies of major functional groups, understand the factors that govern electronic absorption and use this knowledge to interpret IR and UV-Vis spectra of simple organic molecules. 6. Develop an ability in the combined use of mass spectrometry and spectroscopic techniques for structure elucidation.
98		M Sc III	PHOTOCHEMISTRY AND PERICYCLIC REACTION	303	<p>Course learning outcomes (CLOs): The students will be able to explain</p> <ol style="list-style-type: none"> 1. conformational analysis of cycloalkanes, reactivity, chirality, interconversion, resolution and asymmetric synthesis. 2. aromaticity, nonaromaticity and antiaromaticity in carbocyclic and heterocyclic compounds. 3. molecular orbital symmetry and possibility of thermally and photochemically pericyclic reactions. 4. basics of photochemical reactions of alkenes, carbonyl and aromatic compounds.

99	Science	Sem. (Chemistry) 633	INTELLECTUAL PROPERTY HUMAN RIGHTS & ENVIRONMENT BASICS	304	Course Outcomes: On successful completion of this course the student should be able to: 1. Distinguish and Explain various forms of IPRs. 2. Identify criteria's to fit one's own intellectual work in particular form of IPRs.3. Apply statutory provisions to protect particular form of IPRs.
100			TRIBAL STUDIES	305	Course-Outcomes- After completion of this programme the learners will be able to: Understand the tribal culture, life and their situation in India Learning-Outcomes- Students will be able to analyze the life situations, culture and society of Tribal communities.
101			GREEN CHEMISTRY	306	Course Learning Outcomes: The students will acquire knowledge of 1. Concepts of green chemistry. 2. Applications of green chemistry for sustainable development.
102			ORGANIC SYNTHESIS II	307	Course learning outcomes (CLOs): The students will be able to explain 1. mechanistic aspects in nucleophilic and electrophilic substitution. 2. reaction conditions, products formation and mechanisms of some named reactions. 3. mechanisms of addition reactions of C=C and C=O bonds and elimination reactions.
103			HETEROCYCLIC CHEMISTRY	308	Course learning outcomes (CLOs): The students will be able to 1. comprehend nomenclature of different heterocyclic compounds. 2. interpret synthesis and reactivity of fused, six membered and smaller heterocyclic compounds. 3. categorize and the importance of various natural products.

104		ORGANIC CHEMISTRY LAB (PRACTICAL)	309	<p>Course Learning Outcomes: The students will acquire skills to</p> <ol style="list-style-type: none"> 1. handle and use different organic and inorganic reagents. 2. set up organic and inorganic reactions and characterize products using spectroscopic techniques. 3. know the preparation, purification and characterization of different organic and inorganic compounds.
105		BIOINORGANIC CHEMISTRY	401	<p>Course Learning Outcomes: After the completion of the course, the students should be able to:</p> <ol style="list-style-type: none"> 1. Describe the factors that govern the stability, folding, and dynamics of proteins. 2. Explain the kinetics, thermodynamics, and mechanism of protein folding and their implications in misfolding. 3. Describe the structure and biological functions of proteins and explain the role of metals in biology. 4. Explain the roles of metals in medicinal chemistry and toxic effects of metals.
106		ENVIRONMENTAL CHEMISTRY	402	<p>Course learning outcomes (CLOs): Students will be able to explain</p> <ol style="list-style-type: none"> 1. different concepts of atmosphere, stratospheric and tropospheric chemistry, photochemical smog, acid rain, atmospheric aerosols, global climate. 2. gases in hydrosphere, organic matter in water, humic material, metals in aqueous environment. 3. chemistry of colloids with reference to environment. 4. air pollution and its control.
107		SOLID STATE CHEMISTRY	403	<p>Learning outcomes</p> <p>On completion of the course, the student should be able to: 1. describe the principles concerning solid state structures. 2. describe specific crystal structures by applying basic crystallographic concepts. 3. give an account of the generation of X-ray radiation and its effects of on matter.</p>

108	Science	M Sc IV Sem. (Chemistry) 634	PHOTOINORGANIC CHEMISTRY	405	<p>Course learning outcomes (CLOs): The student will be able to</p> <ol style="list-style-type: none"> 1. assess photochemistry and photophysical principles. 2. identify and characterize of transient intermediates by ultrafast modern techniques. 3. know the theory and application of photochemistry and photophysical principles of macromolecules.
109			MATERIAL SCIENCE	406	<p>Course Learning Outcomes: After the completion of the course, the students should be able to:</p> <ol style="list-style-type: none"> 1. Describe Unit cells, lattice types, crystal system and point defects in solids. 2. Explain X-ray and electron diffraction for crystal structure analysis. 3. Explain electrical and magnetic properties of materials. 4. Elucidate the size-dependent physicochemical properties of nanomaterials.
110			DISSERTATION (PRACTICAL)	404	<p>Course learning outcomes (CLOs): The students will be able to</p> <ol style="list-style-type: none"> 1. analyze current literature research for research topic of his/her area of expertise. 2. rationalize the research gap for new innovation. 3. comprehend expertise for writing the research reports. 4. exposure for safe laboratory practices by handling high end equipments and chemical reagents.
111			GENERAL CHEMISTRY LAB (PRACTICAL)	408	<p>Course Learning Outcomes: After the completion of the course, the students should be able to</p> <ol style="list-style-type: none"> 1. be familiar with experimental techniques for controlling chemical reactions. 2. measure various physical and chemical properties of materials and the kinetics of a chemical reaction. 3. record and interpret the UV-Vis and IR spectra for structural analysis and kinetic studies.


PRINCIPAL
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