

Sr. No.	Programme	Objectives	Programme Specific Objectives
1.	BA		<p>BA-I</p> <p><u>English Course :</u></p> <ol style="list-style-type: none"> 1. To develop positive attitude towards learning English 2. To motivate them to become enthusiastic and reflective readers 3. To enrich the vocabulary 4. To stimulate them to express themselves 5. To make them familiar with the phonetics sounds. <p><u>Punjabi Course</u> <u>ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</u></p> <ol style="list-style-type: none"> 1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ 'ਵਾਰਤਕ-ਵਿਵੇਕ' ਪੁਸਤਕ ਵਿਚ ਦਰਜ ਵੱਖ-ਵੱਖ 2 ਨਿਬੰਧਾਂ ਰਾਹੀਂ ਉਨ੍ਹਾਂ ਨੂੰ ਜੀਵਨ ਦੇ ਵੱਖ-ਵੱਖ ਪੜਾਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। 2. ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਬੌਧਿਕ ਸ਼ਕਤੀ ਵਿਚ ਵਾਧਾ ਕਰਨਾ। 3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਦੀ ਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। 4. ਵਿਆਕਰਣ ਦੀ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਟਕਸਾਲੀ ਰੂਪ, ਭਾਸ਼ਾ ਅਤੇ ਉਪ-ਭਾਸ਼ਾ ਦਾ ਅੰਤਰ ਅਤੇ ਅੰਤਰ-ਸਬੰਧ ਕਰਨਾ ਸਿਖਾਉਣਾ। 5. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਪਛਾਣ ਚਿੰਨ੍ਹਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। 6. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਦੀ ਵਿਧੀ ਸਿਖਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਉਨ੍ਹਾਂ ਨੂੰ ਯੋਗ ਅਤੇ ਢੁੱਕਵੀਂ ਸ਼ਬਦਾਵਲੀ ਵਰਤਣ ਬਾਰੇ ਸਿਖਾਉਣਾ। <p><u>Computer Course :</u> <u>Fundamentals of Information Technology</u></p> <ol style="list-style-type: none"> 1. To Provide students the knowledge about Hardware & Software 2. To make students aware about the concepts of Input and Output devices including their working 3. To impart knowledge regarding current trends of Technology

		<p><i>MS Office Automation Tools</i></p> <ol style="list-style-type: none"> 1. To open an existing file and save it with a new name 2. Perform commands from the ribbon and quick access toolbar 3. Apply formatting in Office programs <p><u>Sociology Course :</u></p> <p><i>Fundamentals of Sociology</i></p> <ol style="list-style-type: none"> 1. Introduction to the basic concept of Sociology, subject matter & importance of Sociology and origin & development of sociology 2. Understanding in brief the knowledge of human Society and Sociology. <p><u>Mathematics Course :</u></p> <p><i>Partial Differential Equation</i></p> <ol style="list-style-type: none"> 1. Solve Ordinary partial differential equation 2. Create the importance of numerical methods 3. Select the appropriate method for any particular problem 4. Assess the reliability of the partial differential technique <p><i>Analytic Geometry-</i></p> <ol style="list-style-type: none"> 1. To make students understand about the equation plan using two point form, three point form 2. Laws of point that are equidistant to two given points 3. Students learn that how to determine equation of sphere, straight line, co-axial limiting point of sphere etc. <p><i>Co-ordinate Geometry</i></p> <ol style="list-style-type: none"> 1. Students will be able to learn Basic of Parabola 2. Students will be able to learn equation of tangent. <p><i>Ordinary differential equations</i></p> <ol style="list-style-type: none"> 1. Ordinary differential equations have important applications and are a powerful tool in the study of many problems in natural science and in technology. 2. They are extensively employed in mechanics, astronomy, physics & in many problems of Chemistry and Biology. 3. Newton's Law of Mechanics make it possible to reduce the description of motion of mass points or solid bodies to solve ordinary differential equations. 4. Most important applications are in theory of oscillations & in automatic control theory. <p><i>Calculus</i></p>
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		<p>History</p> <ul style="list-style-type: none"> • History allows us to understand our past. • Provide us with insight into our cultures of origin and cross cultural awareness. • It allows us sense of the current world. • History provides valuable insight for future generations. • Prepare standards for competitive exams. 	<p>planning of house as per family needs.</p> <ol style="list-style-type: none"> 3. To acquaint the students with different types of fuels used at home and to give them knowledge regarding selection care and use of house hold utensils and electrical & non-electrical equipments. 4. To make students learn different elements and principles of art and its applications in making different color schemes and flower arrangement etc. <p><i>Family Finance Management</i></p> <ol style="list-style-type: none"> 1. To make students understand the meaning and importance of financial management (income, account keeping and budget) 2. To make students aware of different types of bank accounts and role of banks in financial management, bank loans, bank transactions namely cheques, drafts, passbooks, withdrawal forms, deposit forms and traveler’s cheque. 3. To make students know about saving its types and objectives. 4. To make students know about taxation and taxes. <p><u>Political Science Course</u></p> <p><i>Political Theory-I</i></p> <ol style="list-style-type: none"> 1. To make students understand nation’s political Institutions, Political Culture and Political ideologies and public policies. <p><i>Political Theory-II</i></p> <ol style="list-style-type: none"> 1. It includes the study of law, justice, civil rights and government. All it allows students to examine the complex nature of political power. <p><u>History Course</u></p> <p><i>Paper I- History of India(Ancient Period)</i> It reflects how step by step we become developed, main reason for settlement (agriculture). It emphasized on civilization. Such as Indus Valley Civilization.</p> <p><i>Paper - II – History of India(Medieval Period)</i> An important era in our history for development in the field of art, languages, culture and religion. Provides knowledge of mughals, maralhas, Turks, Vijaynagar Kings etc.</p> <p><u>Home Science Course</u></p> <p><i>Home Management and Hygiene</i></p> <ol style="list-style-type: none"> 1. To make the students aware of meaning and importance of Home Science 2. To make the students know how to select site, soil and locality for house, about the principles of planning a house and selection of furniture. 3. To make the students know about the element and principles of art in relation to interior decoration.
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			<p>BA-II</p> <p>Elective Course:</p> <p>English</p> <ol style="list-style-type: none"> 1. To familiarize with the terms related to DRAMA 2. To introduce students with the history of English Literature 3. To familiarize with the important texts. 4. Introduction to the nature of language and its branches. 5. To teach the basics of word formation and morphology. 6. To establish the grammatical base. <p>Hindi Elective</p> <p>d½ *jhfrdky^ ;qx ,oa jhfr lkSjHk dkU; laxzg ds ek;/e ls fcgkjh] Hkw'k.k vkfn dfo;ksa dh dkO; dyk tkudkjh fo kFkhZ izklr dj ldrs gSA</p> <p>[k½ fgUnh Hkk'kk dk mn~Hko dSls gqvk vkSj fujUrj fodflr gksrh gqbZ jktHkk'kk] jk'VªHkk'kk] laidZ Hkk'kk dk :lk xzg.k djrh gqbZ Hkh fujUrj misf{kr gks jgh gS ds ckjs esa</p>

			<p>fo kFkhZ Hkyh Hkkafr tkudkjH gkfly djrs gSA</p> <p>Xk½ t;”kadj izlkn dh dgkfu;ksa dks i<+ dj fo kFkZ;ksa ds eu esa lkfgR; ds izfr :fp mRiUu gksrh gSA</p> <p>?k½ **ipiu [kaHks yky nhikjs vkSj ikap ,dkadh^^ i<+dj fo kFkhZ ds eu esa vusd iz”u mRiUu gksrs gSa ftudk mÙkj <aw<uk gh mldk mís”; cu tkrk gSA</p> <p>Punjabi</p> <ol style="list-style-type: none"> 1.ਸਪਤਿਕਾ –ਪੁਸਤਕ ਰਾਹੀਂ ਕਵੀਆਂ ਦੀਆਂ ਵੱਖ-ਵੱਖ ਵਿਸ਼ੇ ਨਾਮ ਸਬੰਧਿਤ ਕਵੀਤਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 2. ਕਥਾ ਸੰਸਾਰ- ਪੁਸਤਕ ਵਿਚ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ, ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਯਥਾਰਥ ਵਿਸ਼ਿਆਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 3. ਵਾਰ ਕਾਵਿ- ਪ੍ਰਕਿਰਤੀ, ਵਿਸ਼ੇਸ਼ਤਾਈਆਂ ਤੇ ਵਿਕਾਸ ਤ ਚਾਣਨਾ ਪਾਇਆ ਜਾਂਦਾ ਹੈ। 4. ਪੱਛਮੀ ਆਲੋਚਨਾ ਪ੍ਰਣਾਲੀ ਨਾਲ ਸਬੰਧਿਤ 10 ਮੂਲ ਸਕੱਲਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। <p>English Compulsory</p> <p>Communications Skills</p> <ol style="list-style-type: none"> 1. To develop their intellectual personal and professional abilities. 2. To make the students learn how to comprehend. 3. To help them correlate day to day incidents with the stories and help solve their problems. 4. To give exposures to the lives of great men that will motivate them to cop-up with their personal and social constraints. 5. To develop reading and communicational skills <p>Punjabi Course</p> <p>ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. ਬੱਚਿਆਂ ਨੂੰ 'ਕਾਵਿ-ਲਹਿਰਾ' ਪੁਸਤਕ ਦੁਆਰਾ ਵੱਖ-ਵੱਖ ਕਵੀਆਂ ਦੇ ਵਿਚਾਰਾਂ ਤੋਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣੂ ਕਰਾ ਕੇ ਜਾਗਰੂਕ ਕਰਨਾ। 2. ਬੱਚਿਆਂ ਨੂੰ ਆਪਣੀ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਉਸਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। 3. ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਬਾਰੇ
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		<p><u>MUSIC</u></p> <ol style="list-style-type: none"> To enable them in understanding the emotion and esthetic sense and to prepare the students to be 	<p>ਜਾਣਕਾਰੀ ਦੇਣੀ।</p> <ol style="list-style-type: none"> ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਖਬਾਰੀ ਰਿਪੋਰਟ ਰਾਹੀਂ ਯਥਾਰਥ ਅਤੇ ਸੱਚ ਦੇ ਨੇੜੇ ਲਿਜਾ ਕੇ ਉਨ੍ਹਾਂ ਵਿਚ ਤਰਕਪੂਰਨ ਸੋਚ ਨੂੰ ਵਿਕਸਿਤ ਕਰਨਾ। <p><u>Computer Course :</u> <i>C Programming and Data Structures</i></p> <ol style="list-style-type: none"> The major objective of C language is to provide students with understanding of code organization. Ability to work with Arrays Ability to handle possible errors during program execution. To impart the basic concepts of data structures and algorithms To understand concepts about searching and sorting techniques To understand basic concepts about stacks, queues, lists, trees and graphs To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures <p><i>Database Management System</i></p> <ol style="list-style-type: none"> Multiple Users Access. No one handles the whole database alone Data Protection Data Backup and recovery Integrity Platform Independent <p><u>Sociology Course :</u> <i>Social Structure of Indian Society</i> <i>Social Change in India</i></p> <ol style="list-style-type: none"> Getting acquainted with the structure and changing nature of Indian society Understanding various segments and unity of the Indian society Discussing a brief outline of the making of the Indian Society <p><u>Course Economics :</u></p> <ol style="list-style-type: none"> To identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates. To discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over differing time horizons; To describe the main macroeconomic
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		<p>economically independent by earning with the help of this art.</p> <p>OFFICE MANAGEMENT AND SECRETARIAL PRACTICE</p> <p>1. The objective of this subject is to create job skills and entrepreneurial skills. Since job training is a part of this subject by way of which students learn to handle the office activities. Shorthand is also a part of the subject which is required in the office.</p> <p>POLITICAL SCIENCE</p> <ol style="list-style-type: none"> To make the students aware about their rights and duties which are helpful in all round development of a citizen. To give knowledge on common issues like caste, religion, corruption etc. and how the change makes the world goes round. It is helpful in UPSC competitive examination 	<p>theories of short term fluctuations and long term growth in the economy;</p> <ol style="list-style-type: none"> To critically evaluate the consequences of basic macroeconomic policy options under differing economic conditions within a business cycle. <p>Mathematics Course :</p> <p>Analysis</p> <ol style="list-style-type: none"> The real numbers, least upper bounds, countable and uncountable sets. Recognize convergent, divergent, bounded, Cauchy and monotone sequences. Calculate the limit superior, limit inferior, and the limit of a sequence. Recognize alternating, convergent, conditional and absolutely convergent series. Apply the ratio, root and limit comparison tests. Subsets of a metric space, open, closed, connected, bounded, totally bounded and compact sets. Function on a metric space, discontinuous, continuous, or uniformly continuous functions <p>Numerical Methods-II</p> <ol style="list-style-type: none"> The objectives of studying this module are to make the students familiarize with the ways of solving complicated mathematical problems numerically. Students become familiar with MATLAB and other convenient numerical software such as Microsoft Excel and with simple programming. Describing and understanding of the several errors and approximation in numerical methods. The aim is to teach the student various topics in Numerical Analysis such as solutions of nonlinear equations in one variable, interpolation and approximation. <p>Studying statics & dynamics</p> <ol style="list-style-type: none"> The primary purpose of the study is to develop the capacity to predict the effect of force & motion while carrying out the creative design function of science. This capacity requires more than a mere knowledge of physical & mathematical principles of mechanics. One of primary objectives in a mechanics
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			<p>course is to help the student develop the ability to visualize which is so vital to problem formulation maximum progress is made when the principles & their limitations are learned together with in the context of us application.</p> <p><i>Advance Calculus</i></p> <ol style="list-style-type: none"> 1. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability. 2. To understand the maximum and minimum behavior of a function of two variables. 3. To understand different indeterminate form of limit. <p><u>Physical Course :</u></p> <p><i>Paper - I</i></p> <ol style="list-style-type: none"> 1. To make them aware of the role, principle and importance of various games. 2. To make them aware of growth and development in childhood and adolescence period. 3. To give them knowledge of Yoga 4. To provide knowledge of Endocrine and Excretory System. <p><i>Paper-II</i></p> <ol style="list-style-type: none"> 1. To make them aware of various theories of learning and its importance 2. To impart knowledge about Sports Psychology, Personality, First Aid, Circulatory and Muscular System. 3. To make them ready for various games and sports such as High Jump, Discus Throw and Kho-Kho. <p><u>Home Management Course</u></p> <p><i>Family Relation and Resource Management</i></p> <ol style="list-style-type: none"> 1. To make students know meaning, types, functions and responsibilities of family; qualities of good Indian families with context to changing patterns in Modern Indian families. 2. To make students know about management of time, money and energy. 3. To make students understand different types of kitchen, selection and arrangement of furniture and accessories in different rooms. 4. Household cleaning, household pests and their control. 5. To make students understand the principles of art in clothing, its selection and care; washing and finishing of garments, stain removal and dry cleaning and to understand the social and
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			<p>psychological impact of clothing.</p> <ol style="list-style-type: none"> 6. Classification of textile fibers, their manufacture and properties. <p>Population Education</p> <ol style="list-style-type: none"> 1. To understand the concept of people, population and population awareness. 2. To study family size in relation to education poverty and social status. 3. To get acquainted with the process of demography, its nature and importance. 4. To learn the concept of population education along with its objectives and importance. 5. To study the importance of population education among school and college students and teachers. 6. To analyze size, age wise & sex wise composition and spacial distribution of population in Punjab and India. 7. To get acquainted with the components of population change; namely culture, religion, poverty, illiteracy and urbanization in Punjab and India. 8. To understand the concept of infant mortality; its causes and factors that affect mortality decline. 9. To study consequences of population growth that include; unemployment and under employment, environment pollution & socio economic development. 10. To learn the control measures to check further population growth. <p>Music Course :</p> <p>Paper - I</p> <ol style="list-style-type: none"> 1. To give the knowledge of different music terms and the history of Indian Music of Matang and Sharangder periods. 2. To make the students aware of various terms of music and contribution of great music masters. 3. To impart knowledge of Khayal Gayan Shally, Folk Music of Punjab and Gurmat Sangeet. 4. To prepare the students for stage performance. <p>Paper-II</p> <ol style="list-style-type: none"> 1. To enhance the knowledge of historical development of Indian music upto 12th Century and different Gayan Shallies. 2. To make the students aware of the role of Computer and Internet in Music. 3. To impart the knowledge of Tanpura, Gurmat Sangeet, Different Ragas and Talas. <p>Office Management And Secretarial Practice</p>
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			<p>Course :</p> <ol style="list-style-type: none"> 1. To make the students know about the requirements of an office like : furniture, papers etc. 2. To develop the knowledge of qualities of different types of letters. 3. To make the students aware of the history of typewriting and develop the skills of typing and shorthand in students by regular practice <p><u>Political Science Course</u> <i>Indian Political System-I</i></p> <ol style="list-style-type: none"> 1. To make the students know about the working of Indian political System, how it shapes Institutions of India and the constitutional relationship between the states & its citizens. <p><i>Indian Political System-II</i></p> <ol style="list-style-type: none"> 1. To make the students aware how the constitutions tries to create a balance between the liberty of citizens, the authority of the states and the cohesiveness of the society. <p><u>History Course</u> <i>Paper - III Modern India</i> Decline of Mughals and Maratha empire. Rise of regional states and European power that paves an impact on our society, economy and our Political system and revolts, movements etc.</p> <p><i>Paper - IV- History of Punjab (History of Gurus)</i> Sikhism was founded in 1469 in Punjab, the land of five rivers in northern India. The teachings of Guru Nanak Devji, show a new path to spiritualism, Sikhism is to serve humanity.</p> <p><u>Home Science Course</u> <i>Clothing</i></p> <ol style="list-style-type: none"> 1. To make the students aware of the sewing equipments and supplies used in clothing construction, parts of sewing machines, common defects of it and remedies 2. To make the students know about how to take body measurements, drafting and its importance. 3. To do practical on sewing processes, embroidery and construction of garments. <p><i>Textiles</i></p> <ol style="list-style-type: none"> 1. To make the students know about the types of textiles fibers, their manufacture and properties. 2. To make the students know about Bleaching, Finishing, Dying, Printing and Washing of different types of garments. 3. Practically doing dying, printing and washing <p><i>Psychology (Experimental Psychology)</i></p> <ol style="list-style-type: none"> 1. To make the students aware of the ways
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			<p>we learn through conditioning and importance of Reinforcement in one's life.</p> <ol style="list-style-type: none"> To make the students know the levels of processing of memory and causes of forgetting. To make students know the role of sensation in our life and its important. To make the students aware how we perceive objects and role of attention in one's life.
			<p>BA-III <u>Elective Course</u> <u>English (Phonetics and Phonology)</u></p> <ol style="list-style-type: none"> To make them aware of the literary term pertaining to poetry. To develop the imaginative skills. To provide a better understanding of the emotional senses. To provide enough information on the theoretical underpinnings of English pronunciation. To improve the accent and fluency of language. To provide different aspects and parts of English language pronunciation field. <p><i>Hindi Elective</i></p> <p>d½ HkfDr dky dh fofHkUu “kk[kkvksa dk iw.kZ Kku izklr djrs gq, ^efYydk^ dkO; laxzg esa lxq.k vkSj fuxqZ.k dfo;ksa ds ckjs esa iw.kZ tkudkj izklr dj ldrs gSaA</p> <p>[k½ /kzqoLokfeuh ukVd dks i<+us ls gekjh lkaLd`frd fojklr IH;rk laLd`fr vkSj bfrgkl dh tkudkj fo kFkZ;ksa ds Kku esa o`f) djrh gSA</p> <p>Xk½ fofHkUu fucU/kdkjksa ds fucU/kksa ds ek;/e ls fo kFkhZ fHkUu&fHkUu “kh`kZdks }kjk Kku izklr dj ldrs gSA</p> <p>?k½ egknsoh dk x lkfgR; dks i<+ dj fo kFkhZ mu dh xgjkBZ;ksa esa Mwc tkrs gSaA</p> <p><i>Punjabi</i></p> <ol style="list-style-type: none"> ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ ਪੁਸਤਕ ਵਿੱਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੁੱਢਲੇ ਕਵੀਆਂ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਰਾਹੀਂ ਪ੍ਰਕ੍ਰਿਤੀ, ਧਰਮ, ਸਮਾਜਿਕ ਤੇ ਸਭਿਆਚਾਰਕ ਵਿਸ਼ਿਆਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ।

			<ol style="list-style-type: none"> 2. ਸਾਹਿਤਕ ਪਰਖ ਪੁਸਤਕ ਰਾਹੀਂ ਕਵਿਤਾ ਦੀ ਪ੍ਰਸੰਗ ਸਾਹਿਤ ਵਿਆਖਿਆ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 3. ਨਾਟਕ ਦੀ ਸਿਧਾਂਤਕ ਜਾਣਕਾਰੀ, ਤੱਤ ਅਤੇ ਰੰਗ-ਮੰਚ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 4. 'ਝਨਾਂ ਦੇ ਪਾਣੀ' ਨਾਟਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਮਾਜਿਕ ਅਤੇ ਸਭਿਆਚਾਰਕ ਰਹਿਣੀ- ਬਹਿਣੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। <p><u>English Compulsory Course :</u> <i>Communications Skills</i></p> <ol style="list-style-type: none"> 1. To develop their intellectual personal and professional abilities. 2. To make the students learn how to comprehend. 3. To help them correlate day to day incidents with the stories and help solve their problems. 4. To give exposures to the lives of great men that will motivate them to cop-up with their personal and social constraints. 5. To develop reading and communicational skills <p><u>Punjabi</u></p> <ol style="list-style-type: none"> 1. ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਵਿਧਾ ਤੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਨਾਵਲ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨੀ। ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਨਾ ਅਤੇ ਉਹਨਾਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸੁਲਝਾਉਣ ਦੀ ਤਰਕ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨੀ। 2. ਵਿਆਕਰਨ ਭਾਗ-ਤੀਜਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਆਕਰਣਿਕ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਆਕਰਣ ਦੇ ਮਹੱਤਵ ਬਾਰੇ ਦੱਸਣਾ। ਨਾਂਵ ਵਾਕੰਸ਼ ਅਤੇ ਕ੍ਰਿਆ ਵਾਕੰਸ਼ ਦੀ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਉਹਨਾਂ ਦੇ ਵਾਕਾਂ ਵਿੱਚ ਸਥਾਨ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। 3. 'ਲੋਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੋਧਕ ਮਾਨਸਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਕਾਸ ਕਰਨਾ। ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਨਾਲ ਜੋੜਨਾ ਅਤੇ ਤਰਕ ਕਰਨ ਦੀ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨਾ।
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			<ol style="list-style-type: none"> 2. To get acquainted with food groups and planning of balanced diet, Normal and Therapeutic diets. 3. To learn the concept of food presentation and its technique. 4. To enable students know the consumer rights and responsibilities, consumer forum and consumer protection acts. 5. To get students aware of malpractices, prevalent in the market i.e. adulteration, defectives weights and measures, misleading labels and advertisements etc. 6. To learn about the package label and identify the standards marks and its significance i.e. ISI, BIS, Agmark and FPO etc. <p><i>Child Development</i></p> <ol style="list-style-type: none"> 1. To make students aware of fertilization, sex determination, number of off springs, stages of prenatal development and factors affecting it. 2. To make students aware of infant care like bathing, personal hygiene, clothing, toilet cleaning and sleep ; feeding of infant – breast feeding, bottle feeding, weaning and supplementary foods ; Common ailments of children. 3. To give knowledge regarding different types of developments like physical, motor, emotional, social and moral at different stages of development. 4. To learn about habit formation, common behavioral problems and role of reward and punishment in children. <p><u>Sociology Course :</u> <i>Social Thoughts</i> <i>Social Science Research Methods</i></p> <ol style="list-style-type: none"> 1. Introduction to major Social Problems and challenges before the problem of the Indian society. 2. Awareness of Contemporary Social Problems in India. <p><u>Mathematics Course :</u> <i>Algebra-I</i></p> <ol style="list-style-type: none"> 1. This course aims to provide a first approach to the subject of algebra, which is one of the basic pillars of modern mathematics. 2. The focus of the course will be the study of certain structures called groups, rings, fields and some related structures. 3. Abstract algebra gives to student a good mathematical maturity and enables to build mathematical thinking and skill. <p><i>Discrete Mathematics –I</i></p> <ol style="list-style-type: none"> 1. Simplify and evaluate basic logic
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			<p>statements including compound statements, implications, inverses, converses, and contrapositives using truth tables and the properties of logic.</p> <ol style="list-style-type: none"> 2. Express a logic sentence in terms of predicates, quantifiers, and logical connectives 3. Apply the operations of sets and use Venn diagrams to solve applied problems, solve problems using the principle of inclusion-exclusion. 4. Determine the domain and range of a discrete or non-discrete function, graph functions, identify one-to-one functions, perform the composition of functions, find graph the inverse of a function, and apply the properties of functions to application problems. <p>Mathematical Methods</p> <ol style="list-style-type: none"> 1. The goal for the course is to gain a facility with using the transform, both specific techniques and general principles, learning to recognize when why and how it is used. <p>Algebra – II</p> <ol style="list-style-type: none"> 1. How to analyze and solve a linear system of equations 2. Important characteristics of matrices such as its four fundamentals subspaces, rank, determinant, eigen values and eigen vectors, different factorizations etc. 3. Important concepts of vector spaces such as independence, basis, dimensions, orthogonally etc. <p>Discrete Mathematics-II</p> <ol style="list-style-type: none"> 1. To impart the basic principles of Boolean algebra, logic, set theory 2. Permutations & Combinations and graph Theory 3. Be able to understand logical arguments and logical constructs <p>Physical Course :</p> <p>Paper – I</p> <ol style="list-style-type: none"> 1. To inculcate the leadership qualities in the students by involving them in Campaign and Tournaments. 2. To make them aware of various systems in the body like Respiratory System, Blood Pressure and Pulse Rate. 3. To make them aware of the importance of camping and aims & objectives of recreation. 4. To make them aware of the importance of good posture, causes of poor posture and postural deformities.
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			<p>Paper-V World History (History of Europe) How Russian revolution created socialism in Europe and french revolution opened in Europe and French revolution opened the possibility of creating a dramatic change in the way in which society was structured.</p> <p>Paper - VI- History of Punjab Emperor and Punjabi Suba demand. Reorganization of Punjab in 1966 on linguistic basis.</p> <p>Home Science Course Food Sciences & Child Development</p> <ol style="list-style-type: none"> 1. To make students know the importance & functions of food and basic food group 2. To make the students know essential food constituents, their sources, functions, requirements, deficiency and excess. 3. To make the students know about cooking methods and effect of cooking on different nutrients. 4. To make students know the importance and objectives of child development; different types of developments like physical & Motor Development, Language Development, Emotional and Social Development. <p>Nutrition, Diet Therapy & Child Care</p> <ol style="list-style-type: none"> 1. To make the students know about balances diet, meal planning, normal diet and its modification to Therapeutic diets, 2. To make the students know about pregnancy, pre-natal development, feeding of the infant, behavioral problems in children and their remedies. 3. To make the students know about the common digestive disturbances and viral infections in children <p>Psychology (Abnormal Psychology)</p> <ol style="list-style-type: none"> 1. To make the students know about the abnormal behavior, its causes and remedies. 2. To make the students know the causes of Stress, Anxiety & Depression and its remedies. 3. To give students the knowledge of Drugs and its side effects.
	B.Com (R)		<p>B.Com (R) – I A thing of Beauty</p> <ol style="list-style-type: none"> 1. This poetry section is inspiring. Poetry elicits powerful emotions and enhances the power of imagination. 2. The myth of poetry helps the students to acquire natural speech. <p>ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p>

			<ol style="list-style-type: none"> 1. 'ਕਥਾ ਰੰਗ' ਪੁਸਤਕ ਦੀਆਂ ਕਹਾਣੀਆਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਦੇ ਹਰੇਕ ਪੱਖ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 2. ਵਿਆਕਰਨ ਦੀ ਪੁਸਤਕ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਿਆਕਰਨ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਰਾਹੀਂ ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਨੂੰ ਬਣਾਉਣ ਦੀ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 3. ਉਪਰੋਕਤ ਪੁਸਤਕਾਂ ਤੋਂ ਇਲਾਵਾਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਪੜ੍ਹਾਉਣ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਮਾਤ ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ। 4. 'ਵਾਰਤਕ ਵਿਵੇਕ' ਪੁਸਤਕ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਨਿਬੰਧਕਾਰਾਂ ਦੇ ਨਿਬੰਧਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਦੇ ਵੱਖ-ਵੱਖ ਪੱਖਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 5. ਵਿਆਕਰਨ ਦੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਿੱਠੀ-ਪੱਤਰ ਦੀ ਵਿਧੀ ਸਿਖਾਉਣ ਅਤੇ ਸ਼ਬਦ ਦੀ ਅੰਦਰੂਨੀ ਤੇ ਬਾਹਰੀ ਬਣਤਰ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। <p>ਪੰਜਾਬੀ ਮੁਢਲਾ ਗਿਆਨ</p> <ol style="list-style-type: none"> 1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਨਾ। ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਵਰਣਮਾਲਾ, ਗੁਰਮੁਖੀ ਅੱਖਰਾਂ, ਲੇਖਣ-ਪ੍ਰਬੰਧ ਅਤੇ ਪੰਜਾਬੀ ਧੁਨੀਆਂ ਦੇ ਪ੍ਰਬੰਧ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। 2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲਗਾਂ-ਮਾਤਰਾਂ, ਲਗਾਖਰਾਂ ਆਦਿ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। 3. ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਵਾਉਣਾ। ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ, ਰੰਗਾਂ ਦੇ ਨਾਂ, ਫਲਾਂ-ਸਬਜ਼ੀਆਂ, ਪਸ਼ੂ-ਪੰਛੀਆਂ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜੀ ਰੱਖਣਾ ਮੁੱਖ ਉਦੇਸ਼ ਹੈ। 4. ਵਿਆਕਰਣ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਮਾਤ-ਭਾਸ਼ਾ ਨਾਲ
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			<p>ਜੋੜਨਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਗਿਆਨ ਦੇਣਾ।</p> <p>5. ਸ਼ਬਦ ਜੋੜਾਂ ਦੀ ਵਰਤੋਂ, ਸ਼ਬਦ ਬਣਤਰਾਂ, ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਅਤੇ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਹੀ ਪੰਜਾਬੀ ਲਿਖਣ ਅਤੇ ਬੋਲਣ ਵਿਚ ਪਰਪੱਕ ਕਰਨਾ।</p> <p>Financial Accounting</p> <ol style="list-style-type: none"> 1. To impart the knowledge about various accounting concepts and how financial business transactions are recorded in the books of account in different type of business organizations. <p>Business Laws</p> <ol style="list-style-type: none"> 1. The student will be able to demonstrate an understanding of the Legal Environment of Business. 2. Apply basic legal knowledge to business transactions. 3. Communicate effectively using standard business and legal terminology. <p>Computer Applications In Business</p> <ol style="list-style-type: none"> 1. Give students an in-depth understanding of why computers are essential components in business, education and society. 2. Introduce the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet, networking and mobile computing. <p>Principles Of Economics</p> <ol style="list-style-type: none"> 1. To impart knowledge regarding various micro and macro economic factors which have effect on the working of a business activities. 2. Students will learn about the markets and other governance structures organize core economic activities, such as production, distribution, and consumption, and the growth of productive resources. <p>Business Mathematics</p> <ol style="list-style-type: none"> 1. The objective of this course is to teach the mathematical concepts and principles of Matrices and determinants, compound interest and annuities, differential equations etc. and their applications in business and economics.
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			<p>2. The course involves concept understanding, problem formulation and solution, graphing, and computer application.</p> <p>Computerized Financial Accounting</p> <ol style="list-style-type: none"> 1. It teaches the students to maintain accounts with and without inventory. 2. The multilingual feature of tally helps in maintaining accounts in the different languages that are supported by tally ERP 9. 3. Students are familiarized with statutory features of Tally like VAT, CST, TCS, TDS, FBT and service tax. 4. Students are familiarized with point of sale and payroll. <p>Financial Accounting-II</p> <ol style="list-style-type: none"> 1. To help the students to acquire the basic understanding in the field of financial accounting: <ul style="list-style-type: none"> ➤ Accounting Concepts ➤ Accounting Standards ➤ Accounting Rules ➤ Different methods of accounting 2. To develop the students to be professionally competent in the following areas: <ul style="list-style-type: none"> ➤ Preparing financial statements in accordance with appropriate standards. ➤ Interpreting the business implications of financial statement information. <p>Identifying organizational information technology components and risks that can affect financial systems and prescribing appropriate controls.</p>
			<p>B.Com (R) – II</p> <p>Popular Short Stories</p> <ol style="list-style-type: none"> 1. To inculcate morality and ethics through various interesting stories. 2. Transformation of sentences is to help the students to know about the affirmative, negative and interrogative forms. <p>Eight Short Plays</p> <ol style="list-style-type: none"> 1. Imparting the knowledge of stage, play and dialogues through various characters with different cultural background 2. To convey practical way to face interview, every news and dialogue writing. <p>ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. ‘ਇਕ ਮਿਆਨ ਦੇ ਤਲਵਾਰਾਂ’ ਨਾਵਲ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਦੀ ਵਿਧਾ ਤੋਂ ਜਾਣੂ

			<p>ਕਰਾਉਣਾ।</p> <ol style="list-style-type: none"> 2. ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਦੇਸ਼ ਭਗਤੀ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਨਾ। 3. ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਧਾਰਮਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਗਤੀਵਿਧੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। 4. ਵਿਆਕਰਣ-ਭਾਗ ਦੂਜਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਵਿਆਕਰਣ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ, ਵਿਆਕਰਨ ਦੇ ਨਿਯਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਨਾ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। 5. 'ਕਾਵਿ-ਲਹਿਰਾਂ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਕਾਵਿ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਕਵਿਤਾਵਾਂ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿ: ਦੀ ਕਵਿਤਾ ਵਿੱਚ ਰੁਚੀ ਅਤੇ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰਨ ਦੀ ਆਦਤ ਵਿਕਸਿਤ ਕਰਨਾ। 6. ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਪੰਜਾਬੀ ਗੁਰਮੁਖੀ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਮਾਤ-ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਨਾ। 7. ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਕੇ ਸੁੱਧ ਲਿਖਣ ਤੇ ਬੋਲਣ ਦਾ ਵਿਕਾਸ ਕਰਨਾ। <p>ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ</p> <ol style="list-style-type: none"> 1. ਪੰਜਾਬੀ ਦੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਰਜ ਕਵਿਤਾ ਵਾਲੇ ਭਾਗ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਪੰਜਾਬੀ ਕਾਵਿ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ। ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਬੋਧਕ ਵਿਕਾਸ ਨੂੰ ਵਿਕਸਿਤ ਕਰਨਾ। 2. ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹਾਂ ਦੀ ਵਰਤੋਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣੂ ਕਰਵਾਉਣਾ ਕਿ ਕਿਸ ਤਰ੍ਹਾਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਸੁਧ ਕਰਨਾ ਹੈ। 3. ਪੈਰਾ ਰਚਨਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਤਰਕ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨਾ। 4. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-II ਕਹਾਣੀ,
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			<p>ਇਕਾਂਗੀ, ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜਨਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੇ ਸਮਾਜਿਕ ਜੀਵਨ, ਪੇਂਡੂ ਜੀਵਨ, ਧਾਰਮਿਕ ਜੀਵਨ, ਬੇਰੁਜ਼ਗਾਰੀ, ਨੈਤਿਕ-ਕਦਰਾਂ-ਕੀਮਤਾਂ ਅਤੇ ਇਸਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>5. ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਦੀ ਵਿਧੀ ਸਿਖਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਉਹਨਾਂ ਨੂੰ ਯੋਗ ਅਤੇ ਢੁੱਕਵੀਂ ਸ਼ਬਦਾਵਲੀ ਦੀ ਵਰਤੋਂ ਕਰਨਾ ਸਿਖਾਉਣਾ।</p> <p>Business Statistics</p> <ol style="list-style-type: none"> 1. The objective behind teaching business statistics is to provide a basic knowledge of the applications of mathematics and statistics to business disciplines. 2. Develop the ability to analyze and interpret data to provide meaningful information to assist in making management decisions. <p>Principles of Business Management</p> <ol style="list-style-type: none"> 1. The objective behind this subject is to provide the knowledge about different business activities likes planning in the business, organization and controlling etc. 2. Another object is how we can efficiently and effectively allocate our business resources. <p>Corporate Accounting - I & II</p> <ol style="list-style-type: none"> 1. To provide knowledge about basic corporate accounting concepts with the relevant accounting standards and how accounts are prepared in case of joint stock companies. <p>Operations Research</p> <ol style="list-style-type: none"> 1. The objective of OR as a mathematical discipline is to establish theories and solve mathematical optimization problems that translate to real life decision making problems. <p>Cost Accounting</p> <ol style="list-style-type: none"> 1. To understand the basic concepts and processes used to determine product costs, to be able to interpret cost accounting statements, to give knowledge to analyze and evaluate information for cost ascertainment, planning, control and decision making. <p>Indirect Tax</p> <ol style="list-style-type: none"> 1. To give the knowledge regarding various
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			<p>new provisions of GST and custom act.</p> <p>Income Tax Laws – I</p> <ol style="list-style-type: none"> 1. To make the students aware of various provisions regarding computation of total income of an individual and tax thereon. In this way, they can calculate tax on their income in future <p>Income Tax Laws - II</p> <ol style="list-style-type: none"> 1. To make the students aware of various provisions regarding computation of total income of H.U.F., Firm, Company and tax thereon. They also learn provisions regarding assessment procedures, advance payment of tax and TDS which will be very useful for them in their future. <p>Company Law</p> <ol style="list-style-type: none"> 1. To encourage the development of students' skills in legal reasoning and analysis through study of statutes, case law and regulatory practice relating to Company Law. 2. To introduce students to the economic function of the company as a legal structure for business. 3. To provide students with knowledge and appreciation of the major core topics in Company Law including the legal nature of the company, the legal implication of separate corporate personality, role of the board of directors and their legal duties and the legal protection of shareholders. 4. To provide students with an awareness of current policy trends and developments in Company Law.
			<p>B.Com (R) – III ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 5. ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਵਿਧਾ ਤੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਨਾਵਲ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨੀ। ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਨਾ ਅਤੇ ਉਹਨਾਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸੁਲਝਾਉਣ ਦੀ ਤਰਕ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨੀ। 6. ਵਿਆਕਰਨ ਭਾਗ-ਤੀਜਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਆਕਰਣਿਕ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਆਕਰਣ ਦੇ ਮਹੱਤਵ ਬਾਰੇ ਦੱਸਣਾ। ਨਾਂਵ ਵਾਕਾਂਸ਼ ਅਤੇ ਕ੍ਰਿਆ ਵਾਕਾਂਸ਼ ਦੀ ਜਾਣਕਾਰੀ

			<p>ਦਿੰਦੇ ਹੋਏ ਉਹਨਾਂ ਦੇ ਵਾਕਾਂ ਵਿੱਚ ਸਥਾਨ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ।</p> <p>7. 'ਲੋਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੋਧਕ ਮਾਨਸਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਕਾਸ ਕਰਨਾ। ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਨਾਲ ਜੋੜਨਾ ਅਤੇ ਤਰਕ ਕਰਨ ਦੀ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨਾ।</p> <p>8. ਵਿਆਕਰਨ ਭਾਗ ਤੀਜਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਵਾਕ ਬਣਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਅਤੇ ਵਾਕਆਤਮਿਕ ਜੁਗਤਾਂ ਦੀਆਂ ਬਰੀਕੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ</p> <p>1. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-III ਦੇ ਲੇਖਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜਨਾ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਸਮਾਜਿਕ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਧਾਰਮਿਕ ਵਿਕਾਸ ਕਰਨਾ। ਸਮਾਜਿਕ ਪ੍ਰਸਥਿਤੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>2. ਲੇਖਾਂ ਰਾਹੀਂ ਵਾਤਾਵਰਣ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ, ਉਹਨਾਂ ਦੀ ਰੋਕਥਾਮ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਸਮਾਜਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਸ਼ਿਆਂ ਸੰਬੰਧੀ ਸੂਝ ਪੈਦਾ ਕਰਨਾ।</p> <p>3. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-III ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੋਧਕ, ਮਾਨਸਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਕਾਸ ਕਰਨਾ। ਆਲੋਚਾਤਮਕ ਅਧਿਐਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ।</p> <p>4. ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ ਰਾਹੀਂ ਕਿਸੇ ਵੀ ਵਿਸ਼ਥਾਰਕ ਜਾਣਕਾਰੀ ਨੂੰ ਸੰਖੇਪ ਰੂਪ ਵਿੱਚ ਕਰਨ ਦੀ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>Management Accounting – I & II</p> <p>1. To impart the knowledge about various management accounting tools like fund flow statement, ratios, comparative statements etc. and how with the help of</p>
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			<p>these tools accounts for managerial decision making can be prepared.</p> <p>E-commerce E-commerce means business over internet, in the most layman of terms.</p> <ol style="list-style-type: none"> 1. Reach out to a larger audience - internet access is becoming so mainstream now that your product/service can reach almost everyone on the planet with a internet-enabled device. 2. Your virtual shop remains open and operational 24x7 even if you/your staff are not working- this might not be wholly true if your product is a service-which requires immediate human-intervention 3. You need not maintain the whole stock of products - again this varies for different business models and will work greatly if you have a good supplier who does not defaults on supplies and a good shipping partner/team who work in sync for delivery 4. You build your brand more quickly - as more people will know and talk and post and blog about you on social networks. 5. Once your brand is build you can diversify easily and also pull out of a certain segment if that does not works out for you with minimal losses - typical example will be Flipkart's music(tunes) store which closed off even being a great initiative. 6. For most part; setting up a website and maintaining it is lots cheaper given the plethora of hosting services available. <p>Cost Accounting –I</p> <ol style="list-style-type: none"> 1. The main objective of this paper is to make enable students familiar with the concept of cost, its classification, analysis and its control. <p>Business Environment</p> <ol style="list-style-type: none"> 1. To give knowledge about basic and special environment of business in which students study about facts of flourishing business activities in legal, global and private environment of business. <p>Fundamentals of Entrepreneurship</p> <ol style="list-style-type: none"> 1. To inculcate the entrepreneurial skills among students with the help of various concepts of entrepreneurial development. <p>Governance, Ethics And Social Responsibility Of Business</p> <ol style="list-style-type: none"> 1. To impart the information regarding the ethical practices of business and the
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			<p>various social responsibilities of business and how they help any business in growth and expansion.</p> <p>Indirect Tax To give the knowledge regarding various new provisions regarding GST and custom acts.</p>
	B.Com (H)		<p>B.Com (H) – I ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. 'ਕਥਾ ਰੰਗ' ਪੁਸਤਕ ਦੀਆਂ ਕਹਾਣੀਆਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਦੇ ਹਰੇਕ ਪੱਖ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 2. ਵਿਆਕਰਨ ਦੀ ਪੁਸਤਕ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਿਆਕਰਨ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਰਾਹੀਂ ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਨੂੰ ਬਣਾਉਣ ਦੀ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 3. ਉਪਰੋਕਤ ਪੁਸਤਕਾਂ ਤੋਂ ਇਲਾਵਾਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਪੜ੍ਹਾਉਣ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਮਾਤ ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ ਹੈ। 4. 'ਵਾਰਤਕ ਵਿਵੇਕ' ਪੁਸਤਕ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਨਿਬੰਧਕਾਰਾਂ ਦੇ ਨਿਬੰਧਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਦੇ ਵੱਖ-ਵੱਖ ਪੱਖਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 5. ਵਿਆਕਰਨ ਦੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਚਿੱਠੀ-ਪੱਤਰ ਦੀ ਵਿਧੀ ਸਿਖਾਉਣ ਅਤੇ ਸ਼ਬਦ ਦੀ ਅੰਦਰੂਨੀ ਤੇ ਬਾਹਰੀ ਬਣਤਰ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। <p>ਪੰਜਾਬੀ ਮੁਢਲਾ ਗਿਆਨ</p> <ol style="list-style-type: none"> 1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਨਾ। ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਵਰਣਮਾਲਾ, ਗੁਰਮੁਖੀ ਅੱਖਰਾਂ, ਲੇਖਣ-ਪ੍ਰਬੰਧ ਅਤੇ ਪੰਜਾਬੀ ਧੁਨੀਆਂ ਦੇ ਪ੍ਰਬੰਧ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। 2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲਗਾਂ-ਮਾਤਰਾਂ, ਲਗਾਖਰਾਂ ਆਦਿ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। 3. ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਨਾਲ ਜਾਣ-ਪਛਾਣ

			<p>ਕਰਵਾਉਣਾ। ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ, ਰੰਗਾਂ ਦੇ ਨਾਂ, ਫਲਾਂ-ਸਬਜ਼ੀਆਂ, ਪਸ਼ੂ-ਪੰਛੀਆਂ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜੀ ਰੱਖਣਾ ਮੁੱਖ ਉਦੇਸ਼ ਹੈ।</p> <p>4. ਵਿਆਕਰਣ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਮਾਤ-ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਨਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਗਿਆਨ ਦੇਣਾ।</p> <p>5. ਸ਼ਬਦ ਜੋੜਾਂ ਦੀ ਵਰਤੋਂ, ਸ਼ਬਦ ਬਣਤਰਾਂ, ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਅਤੇ ਵਿਸਰਾਮ ਚਿੰਨ੍ਹਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦੇ ਕੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਹੀ ਪੰਜਾਬੀ ਲਿਖਣ ਅਤੇ ਬੋਲਣ ਵਿਚ ਪਰਪੱਕ ਕਰਨਾ।</p> <p><i>A thing of Beauty</i></p> <ol style="list-style-type: none"> 1. This poetry section is inspiring. Poetry elicits powerful emotions and enhances the power of imagination. 2. The mythm of poetry helps the students to acquire natural speech. <p><i>Financial Accounting</i></p> <ol style="list-style-type: none"> 1. To impart the knowledge about various accounting concepts and how financial business transactions are recorded in the books of account in different type of business organizations. <p><i>Principles of Economics</i></p> <ol style="list-style-type: none"> 1. To impart knowledge regarding various micro and macro economic factors which have effect on the working of a business activities. 2. Students will learn about the markets and other governance structures organize core economic activities, such as production, distribution, and consumption, and the growth of productive resources. <p><i>Business Laws</i></p> <ol style="list-style-type: none"> 1. To provide the students with practical legal knowledge of general business laws. 2. To develop in the students an understanding of the free enterprises system and legal safeguards of the same. <p><i>Business Organizations</i></p> <ol style="list-style-type: none"> 1. To explain the basic fundamentals of business environment, organizational theory and marketing including capacity to recognize and use of relevant terminology. <p><i>Functional Management</i></p>
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			<p>1. To impart the knowledge of various management practices & functions and applications of the knowledge of business concepts and functions in an integrated manner.</p> <p>Financial Accounting-II</p> <ol style="list-style-type: none"> 1. To help the students to acquire the basic understanding in the field of financial accounting: <ul style="list-style-type: none"> ➤ Accounting Concepts ➤ Accounting Standards ➤ Accounting Rules ➤ Different methods of accounting 2. To develop the students to be professionally competent in the following areas: <ul style="list-style-type: none"> ➤ Preparing financial statements in accordance with appropriate standards. ➤ Interpreting the business implications of financial statement information. ➤ Identifying organisational information technology components and risks that can affect financial systems and prescribing appropriate controls.
			<p>B.Com (H) – II ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. 'ਇਕ ਮਿਆਨ ਦੇ ਤਲਵਾਰਾਂ' ਨਾਵਲ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਦੀ ਵਿਧਾ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। 2. ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਦੇਸ਼ ਭਗਤੀ ਦੀ ਭਾਵਨਾ ਪੈਦਾ ਕਰਨਾ। 3. ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਧਾਰਮਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਗਤੀਵਿਧੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। 4. ਵਿਆਕਰਣ-ਭਾਗ ਦੂਜਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਵਿਆਕਰਣ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ, ਵਿਆਕਰਨ ਦੇ ਨਿਯਮਾਂ ਸੰਬੰਧੀ ਜਾਗਰੂਕ ਕਰਨਾ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। 5. 'ਕਾਵਿ-ਲਹਿਰਾਂ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਕਾਵਿ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਕਵਿਤਾਵਾਂ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿ: ਦੀ ਕਵਿਤਾ ਵਿੱਚ ਰੁਚੀ ਅਤੇ ਵਿਸ਼ਲੇਸ਼ਣ

			<p>ਕਰਨ ਦੀ ਆਦਤ ਵਿਕਸਿਤ ਕਰਨਾ।</p> <p>6. ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਪੰਜਾਬੀ ਗੁਰਮੁਖੀ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਮਾਤ-ਭਾਸ਼ਾ ਨਾਲ ਜੋੜਨਾ।</p> <p>7. ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਕੇ ਸੁੱਧ ਲਿਖਣ ਤੇ ਬੋਲਣ ਦਾ ਵਿਕਾਸ ਕਰਨਾ।</p> <p>ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ</p> <p>1. ਪੰਜਾਬੀ ਦੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਰਜ ਕਵਿਤਾ ਵਾਲੇ ਭਾਗ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਪੰਜਾਬੀ ਕਾਵਿ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ। ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਬੋਧਕ ਵਿਕਾਸ ਨੂੰ ਵਿਕਸਿਤ ਕਰਨਾ।</p> <p>2. ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹਾਂ ਦੀ ਵਰਤੋਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣੂ ਕਰਵਾਉਣਾ ਕਿ ਕਿਸ ਤਰ੍ਹਾਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਸੁਧ ਕਰਨਾ ਹੈ।</p> <p>3. ਪੈਰ੍ਹਾ ਰਚਨਾ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਤਰਕ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨਾ।</p> <p>4. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-II ਕਹਾਣੀ, ਇਕਾਂਗੀ, ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜਨਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੇ ਸਮਾਜਿਕ ਜੀਵਨ, ਪੇਂਡੂ ਜੀਵਨ, ਧਾਰਮਿਕ ਜੀਵਨ, ਬੇਰੁਜ਼ਗਾਰੀ, ਨੈਤਿਕ-ਕਦਰਾਂ-ਕੀਮਤਾਂ ਅਤੇ ਇਸਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>5. ਚਿੱਠੀ-ਪੱਤਰ ਲਿਖਣ ਦੀ ਵਿਧੀ ਸਿਖਾਉਣ ਦੇ ਨਾਲ-ਨਾਲ ਉਹਨਾਂ ਨੂੰ ਯੋਗ ਅਤੇ ਢੁੱਕਵੀਂ ਸ਼ਬਦਾਵਲੀ ਦੀ ਵਰਤੋਂ ਕਰਨਾ ਸਿਖਾਉਣਾ।</p> <p>Business Statistics</p> <p>3. The objective behind teaching business statistics is to provide a basic knowledge of the applications of mathematics and statistics to business disciplines.</p> <p>4. Develop the ability to analyze and interpret data to provide meaningful information to assist in making</p>
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			<p>management decisions.</p> <p>Banking Operations and Insurance Services</p> <ol style="list-style-type: none"> 1. To make students aware about the operations, functions and management of Banking and Insurance Sector. 2. To enable students to know about the emerging trends in Banking and Insurance Sector. <p>Business Maths</p> <ol style="list-style-type: none"> 1. To identify and use mathematical relationships in everyday life. 2. To develop a positive attitude towards learning mathematics. 3. To acquire knowledge and skills for further education. <p>Auditing Practices</p> <ol style="list-style-type: none"> 1. To integrate the knowledge of accounting and auditing, including the identification & evaluation of alternatives in the preparation of Business information and audits based on incomplete and/or limited information in environments of uncertainty. <p>Corporate Accounting</p> <p>To provide knowledge about basic corporate accounting concepts with the relevant accounting standards and how accounts are prepared in case of joint stock companies.</p> <p>Indian Economy</p> <ol style="list-style-type: none"> 1. To impart the knowledge about the growth and problems of various sectors of Indian economy. <p>Company Law</p> <ol style="list-style-type: none"> 1. To acquaint the students with latest provisions of companies act 2013 along with case laws. <p>Income Tax Laws – I</p> <ol style="list-style-type: none"> 2. To make the students aware of various provisions regarding computation of total income of an individual and tax thereon. In this way, they can calculate tax on their income in future <p>Income Tax Laws - II</p> <ol style="list-style-type: none"> 2. To make the students aware of various provisions regarding computation of total income of H.U.F., Firm, Company and tax thereon. They also learn provisions regarding assessment procedures, advance payment of tax and TDS which will be very useful for them in their future. <p>Seminar</p>
			<p>B.Com (H) – III ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. ਨਾਵਲ 'ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ' ਰਾਹੀਂ

			<p>ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਵਲ ਵਿਧਾ ਤੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਨਾਵਲ ਪ੍ਰਤੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨੀ। ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਕਰਨਾ ਅਤੇ ਉਹਨਾਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸੁਲਝਾਉਣ ਦੀ ਤਰਕ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨੀ।</p> <ol style="list-style-type: none"> 2. ਵਿਆਕਰਨ ਭਾਗ-ਤੀਜਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਆਕਰਣਿਕ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਆਕਰਣ ਦੇ ਮਹੱਤਵ ਬਾਰੇ ਦੱਸਣਾ। ਨਾਂਵ ਵਾਕਸ਼ ਅਤੇ ਕ੍ਰਿਆ ਵਾਕਸ਼ਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਉਹਨਾਂ ਦੇ ਵਾਕਾਂ ਵਿੱਚ ਸਥਾਨ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। 3. 'ਲੋਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ' ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੋਧਕ ਮਾਨਸਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਕਾਸ ਕਰਨਾ। ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਨਾਲ ਜੋੜਨਾ ਅਤੇ ਤਰਕ ਕਰਨ ਦੀ ਸ਼ਕਤੀ ਪੈਦਾ ਕਰਨਾ। 4. ਵਿਆਕਰਨ ਭਾਗ ਤੀਜਾ ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਵਾਕ ਬਣਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਅਤੇ ਵਾਕਆਤਮਿਕ ਜੁਗਤਾਂ ਦੀਆਂ ਬਰੀਕੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। <p>ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ</p> <ol style="list-style-type: none"> 1. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-III ਦੇ ਲੇਖਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੇ ਵਿਰਸੇ ਨਾਲ ਜੋੜਨਾ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਸਮਾਜਿਕ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਧਾਰਮਿਕ ਵਿਕਾਸ ਕਰਨਾ। ਸਮਾਜਿਕ ਪ੍ਰਸਥਿਤੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। 2. ਲੇਖਾਂ ਰਾਹੀਂ ਵਾਤਾਵਰਣ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ, ਉਹਨਾਂ ਦੀ ਰੋਕਥਾਮ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। ਸਮਾਜਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਸ਼ਿਆਂ ਸੰਬੰਧੀ ਸੂਝ ਪੈਦਾ ਕਰਨਾ। 3. ਪੰਜਾਬੀ ਮੁੱਢਲਾ ਗਿਆਨ ਭਾਗ-III ਪੁਸਤਕ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੋਧਕ,
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			<p>ਮਾਨਸਿਕ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਵਿਕਾਸ ਕਰਨਾ। ਆਲੋਚਾਤਮਕ ਅਧਿਐਨ ਦੀ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ।</p> <p>4. ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ ਰਾਹੀਂ ਕਿਸੇ ਵੀ ਵਿਸ਼ਥਾਰਕ ਜਾਣਕਾਰੀ ਨੂੰ ਸੰਖੇਪ ਰੂਪ ਵਿੱਚ ਕਰਨ ਦੀ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।</p> <p>Corporate Governance & Social Responsibility of Business:</p> <ol style="list-style-type: none"> 1. To make the students capable to understand the concept of business ethics, corporate social responsibilities and corporate governance. 2. To make the students be able to analyze the advantages and disadvantages of running a business with business ethics and bearing corporate social responsibilities. 3. To foster students a positive attitude on business ethics and corporate social responsibilities with roles as consumers, investors, employees and entrepreneurs in adult life. <p>Production & operations Management</p> <ol style="list-style-type: none"> 1. To impart knowledge regarding various productions related technical's factors which have effect on business activities. 2. Students will learn about techniques of plant location, layout supply control in productions. <p>Indirect Tax (GST)</p> <ol style="list-style-type: none"> 1. To integrate the knowledge regarding various new provisions of GST and custom Act <p>Financial Institution and Markets</p> <ol style="list-style-type: none"> 1. To integrate the knowledge regarding how financial markets and institutions operate. It introduces financial institutions and other market participants, their roles in the financial system and the ways they interact with each other. <p>Cost Accounting</p> <ol style="list-style-type: none"> 1. To understand the basic concepts and processes used to determine product cost, to be able to interpret cost accounting statements to give knowledge to analyze and evaluate information for cost ascertainment, planning, control and decision making. <p>Management Accounting</p> <ol style="list-style-type: none"> 1. To impart the knowledge about various management accounting tools like fund flow statement, ratios, comparative statements etc and how with the help of these tools accounts
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			<p>for managerial decision making can be prepared.</p> <p>Money and Banking</p> <ol style="list-style-type: none"> 1. To impart knowledge about International Economics activities. 2. How banks and emergence of money solves the business relate problems. <p>Fundamentals of Entrepreneurship</p> <ol style="list-style-type: none"> 1. Value creation and creativity 2. Process Understanding 3. To apply and integrate disciplines 4. Enterprising Behavior <p>Financial Management</p> <ol style="list-style-type: none"> 1. Profit Maximization 2. Wealth Maximization 3. Proper estimation of total financial requirements 4. Proper mobilization 5. Proper Utilization of finance 6. Maintaining proper cash flow 7. Survival of company 8. Creating reserves 9. Proper coordination 10. Create goodwill 11. Increase efficiency 12. Financial discipline 13. Reduce cost of capital 14. Reduce operating Risks 15. Prepare capital Structure <p>E-commerce</p> <p>E-commerce means business over internet, in the most layman of terms.</p> <ol style="list-style-type: none"> 1. Reach out to a larger audience - internet access is becoming so mainstream now that your product/service can reach almost everyone on the planet with a internet-enabled device. 2. Your virtual shop remains open and operational 24x7 even if you/your staff are not working- this might not be wholly true if your product is a service-which requires immediate human-intervention 3. You need not maintain the whole stock of products - again this varies for different business models and will work greatly if you have a good supplier who does not defaults on supplies and a good shipping partner/team who work in sync for delivery 4. You build your brand more quickly - as more people will know and talk and post and blog about you on social networks. 5. Once your brand is build you can diversify easily
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			<p>and also pull out of a certain segment if that does not work out for you with minimal losses - typical example will be Flipkart's music(tunes) store which closed off even being a great initiative.</p> <p>6. For most part; setting up a website and maintaining it is lots cheaper given the plethora of hosting services available.</p>
	B.Sc (CSM)		<p>B.Sc (CSM) – I ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ</p> <ol style="list-style-type: none"> 1. ਬੱਚਿਆਂ ਨੂੰ 'ਕਾਵਿ-ਲਹਿਰਾ' ਪੁਸਤਕ ਦੁਆਰਾ ਵੱਖ-ਵੱਖ ਕਵੀਆਂ ਦੇ ਵਿਚਾਰਾਂ ਤੋਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਾਣੂ ਕਰਾ ਕੇ ਜਾਗਰੂਕ ਕਰਨਾ। 2. ਬੱਚਿਆਂ ਨੂੰ ਆਪਣੀ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਉਸਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। 3. ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣੀ। 4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਖਬਾਰੀ ਰਿਪੋਰਟ ਰਾਹੀਂ ਯਥਾਰਥ ਅਤੇ ਸੱਚ ਦੇ ਨੇੜੇ ਲਿਜਾ ਕੇ ਉਨ੍ਹਾਂ ਵਿਚ ਤਰਕਪੂਰਨ ਸੋਚ ਨੂੰ ਵਿਕਸਿਤ ਕਰਨਾ। <p>Fundamentals of Information Technology</p> <ol style="list-style-type: none"> 1. To Provide students the knowledge about Hardware & Software 2. To make students aware about the concepts of Input and Output devices including their working 3. To impart knowledge regarding current trends of Technology <p>Programming Using C & Lab Training</p> <ol style="list-style-type: none"> 1. The major objective of C language is to provide students with understanding of code organization. 2. Ability to work with Arrays 3. Ability to handle possible errors during program execution <p>Object Oriented Programming using C++ & Lab Training</p> <ol style="list-style-type: none"> 1. To learn how C++ improves C with object-oriented features 2. To learn how to design C++ classes for code reuse 3. To understand the concept of Data Abstraction & Encapsulation 4. To understand how to inherit data from

			<p>one class to another</p> <p>Management Information System The objective of MIS is to provide information for decision making on planning, initiating, organizing, and controlling the operations of the subsystems of the firm and to provide a synergistic organization in the process. It facilitates the decisions-making process by furnishing information in the proper time frame.</p> <p>Trigonometry and differential calculus</p> <ol style="list-style-type: none"> 1. Students will learn about the rules for quotients and chain rule. 2. Students will learn how to interpret the derivatives as a rate of change. 3. Students will learn about the rules of limits to calculate limits. <p>Probability Theory</p> <ol style="list-style-type: none"> 1. Students will be able to understand about the events which can be independent, exhaustive & exclusive. 2. They will learn the difference between discrete and continuous random variables. 3. They will also get rough idea about an occurrence and outcomes. 4. To understand how to solve the questions with the help of expectations and moments generating functions. <p>Computer Oriented Statistical Methods & Lab Training</p> <ol style="list-style-type: none"> 1. Students will be able to understand correlation and regression. 2. To provide the information regarding the least square method. 3. They will also learn about the independence and association of attributes. <p>Integral Calculus and Differential Equation</p> <ol style="list-style-type: none"> 1. Use graphical and numerical evidence to estimate limits, and to identify situations where limits fail to exist. 2. Apply rules of limits to calculate limits. 3. Use the limit concept to determine where a function is continuous. 4. Find critical points, and use them to locate maxima and minima. 5. Use critical points and signs of first and second derivatives to sketch graphs of functions: 6. Use the first derivative to find intervals where a function is increasing or decreasing. 7. Use the second derivative to determine concavity and find inflection points. 8. Find antiderivatives of functions. 9. Use antiderivatives to solve 10. first-order differential equations of the
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			<p>form $dy/dx=f(x)$$dy/dx=f(x)$;</p> <ol style="list-style-type: none"> 11. 5.Rules for powers (including exponent +1) and exponentials, the six trigonometric functions and the inverse sine, tangent and secant. 12. 6.Use integration to find the area under curves and the area between curves. 13. Integrals and Transcendental Functions. <p>Algebra</p> <ol style="list-style-type: none"> 1. The Course on Algebra deals with advance topics on matrices, rank, eigen values. 2. It deals with homogeneous and non-homogeneous system, solutions of cubic and bi-quadratic equations. <p>Geometry</p> <ol style="list-style-type: none"> 1. Geometry is important for the students to knowledge about the concepts of lines, points, shapes, size, relative position of figures, and properties of space.
			<p>B.Sc (CSM) – II</p> <p>Data Structures & Lab Training</p> <ol style="list-style-type: none"> 1. To impart the basic concepts of data structures and algorithms 2. To understand concepts about searching and sorting techniques 3. To understand basic concepts about stacks, queues, lists, trees and graphs 4. To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures <p>Database Management System & Lab Training</p> <ol style="list-style-type: none"> 1. Multiple Users Access. No one handles the whole database alone 2. Data Protection 3. Data Backup and recovery 4. Integrity 5. Platform Independent <p>Operating System</p> <ol style="list-style-type: none"> 1. To learn the fundamentals of Operating System 2. To learn mechanism of operating system to handle process, threads and their communication 3. To know the components & management aspects of concurrency management 4. To gain knowledge of Distributed Operating System that includes Mutual Exclusion, Deadlocks and related protocols. <p>Industrial Statistics</p> <p>The main objective of the quality control module are to control of material reception, internal rejections, clients, claims, providers and evaluation</p>

		<p>of the same corrective actions are related to their follow up. These system and methods guide all quality activities and the objectives of inventory management is to maintain inventory at appropriate level to avoid excessive or shortage of inventory because both the cases are undesirable for business.</p> <p><i>Asp.net & Lab Training</i></p> <ol style="list-style-type: none"> 1. To inculcate the students with security techniques 2. To impart knowledge regarding various standards & web controls 3. To set up a programming environment for ASP.net Programs 4. To make students aware of the concepts to create database driven web application. <p><i>Advanced Calculus</i></p> <ol style="list-style-type: none"> 1. This course aims to introduce the notion of differentiation and integration in general, and sets, functions (and their graphs), limits and continuity of functions in particular. 2. Techniques of derivatives and integration and solving various examples to grasp the idea of each technique are the main objective this course aims to deliver. 3. Calculate the limit of a function at a point numerically and algebraically using appropriate techniques including l'Hospital' rule. 4. Find points of discontinuity for functions and classify them. 5. Understand the consequences of the intermediate value theorem for continuous functions. <p><i>Differential Equation</i></p> <ol style="list-style-type: none"> 1. To make them learn radius of convergence 2. To make them learn about Ordinary Points. <p><i>Real Analysis</i></p> <ol style="list-style-type: none"> 1. Real analysis is an area of analysis that studies concepts such as sequences and their limits, continuity, differentiation, integration and sequence of functions, focuses on the real numbers, often including positive and negative infinity to form the extended real line. <p><i>Topic in Analysis</i></p> <ol style="list-style-type: none"> 1. Students will be able to work with variety of functions. 2. Students will easily understand the relationship between the derivative and the integral. 3. Enhance the knowledge of partial derivative. 4. Student will learn how to work with the polynomial functions. <p>Students get the knowledge to determine</p>
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			<p>analyticity of a function.</p> <p>Statistical Inference & Lab Training</p> <ol style="list-style-type: none"> 1. Student will able to understand such types of sampling distribution which will depend on the sample size 2. To provide the information regarding CLT and the applications of Chi-square distributions. 3. Students will also improve their knowledge regarding the tests of binomial and poison distribution. <p>Applied Statistics</p> <ol style="list-style-type: none"> 1. Students will able to learn about the time series and index numbers. 2. They will also learn about variations which can depend on season and trend. 3. Enrich their knowledge regarding the demand of any commodity.
			<p>B.Sc (CSM) – III</p> <p>Visual Basic & Lab Training</p> <ol style="list-style-type: none"> 1. Students will able to understand the easy way to design application and programe with little knowledge of coding. 2. To create interest in designing applications with the latest components inbuilt available in vb. 3. To teach easy way of database connectivity. <p>Computer Networks</p> <ol style="list-style-type: none"> 1. Resource sharing is the main objective of the computer network. The goal is to provide all the program, date and hardware is available to everyone on the network without regard to the physical location of the resource and the users. 2. The second objective is to provide the high Reliability. 3. Computer organization has helped organization in saving money. This is due to the fact that the small computer has much better price to the performance ratio comparison than the large computer like mainframe. As a result of this imbalance, organization has preferred to install interconnected microcomputer connected to the mainframe computer. 4. Computer network have provided means to increase system performance as the work load increases. 5. Only authorized user can access resource in a computer network. Users are authenticated by their user name and password. Hence it is not possible to access the data without proper account. This increases security. <p>Oracle & Lab Training</p>

			<ol style="list-style-type: none"> 1. Students will able to understand the easy way to create database. 2. Student will learn how to secure data with security commands. 3. Students will learn ODBC, ADODC etc of database connectivity. <p>Software Engineering</p> <ol style="list-style-type: none"> 1. How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment 2. Work as an individual and as part of a multidisciplinary team to develop and deliver quality software 3. Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. <p>Communications Skills</p> <ol style="list-style-type: none"> 1. To make the students acquire the basic language skills 2. To inculcate the ability for grasping the theme of the text. 3. To encourage them for writing the theme of the poem or story in their own words. 4. To enhance their ability to use planning, drafting and editing to improve their work. 5. To enable them to produce sounds with proper stress and intonation. <p>Linear programming problem</p> <ol style="list-style-type: none"> 1. Students will learn about the optimal solution for any problem which can depend on an objective function. 2. To understand how numerical methods plays an important role in real life. 3. They will also learn about the transportation and assignment problem 4. They will also learn how to minimize the profit. <p>Design and Experiments & Lab Training</p> <ol style="list-style-type: none"> 1. Students will learn the importance of statistics in agriculture. 2. They will able to understand the cause and effect relationship. 3. Enhance their knowledge regarding factorial experiments. 4. They will also learn about the variations between one or two groups in an experiment. <p>Sample Survey</p> <ol style="list-style-type: none"> 1. Students will learn how to do survey for any population. 2. They will able to understand the concept of sampling with and without replacement.
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			<ol style="list-style-type: none"> 3. They will also learn about unbiasedness. 4. To improve their knowledge regarding the stratified random sampling ratio and regression estimation. <p>Computer Oriented Numerical Methods & Lab Training</p> <ol style="list-style-type: none"> 4. Students will be able to understand the nature and operations of numerical methods. 5. To understand how numerical methods play an important role in real life. 6. Analyze and interpret information from a variety of sources relevant to numerical methods. <p>Linear Algebra</p> <ol style="list-style-type: none"> 1. Student will be able to compute the inverse of invertible matrix. 2. They will understand linear independence and dependence. 3. They will be able to define special matrices. 4. Students will be able to solve systems of linear equations using various methods. 5. To provide the information regarding real vector space. 6. Enhance their knowledge about dot products, norms. <p>Discrete Mathematics</p> <ol style="list-style-type: none"> 1. Simplify and evaluate basic statements including compound statements, implications, inverses, converses and contrapositives using truth tables and properties of logic 2. Apply the operations of sets and Venn diagrams to solve applied problems using the principle of inclusion-exclusion 3. Evaluate Boolean functions and simplify expressions using the properties of Boolean algebra, apply Boolean algebra to circuits and gating networks <p>Abstract Algebra A major objective is to introduce students to the language and precision of modern abstract algebra. This means that the course will be proof-based, in the sense that students will be expected to understand, construct, and write proofs.</p> <p>Mechanics In mechanics students learn about Newton's Law of motion, Projectiles, Work Power and Energy. Students also learn about simple harmonic motion, null lines, equilibrium of coplanar forces acting on rigid body, moments and parallel forces.</p>
	BCA	BCA is a three year undergraduate degree course which is divided into six semesters. Students will be taught subjects which are related to the technological applications that are required in today's practical work	<p>BCA – I Introduction to Information Technology & Lab Training</p> <ol style="list-style-type: none"> 1. The main objective of the subject is to explain various advancements in computer technology.

		<p>field, rapidly changing field by achieving the following objectives :</p> <ul style="list-style-type: none"> Analyze, design, implement and evaluate computerized solutions to real life problems, using appropriate computing methods. Proficiency in the basic mathematics employed in computer science. Identify, explain and apply fundamental structured programming techniques. Apply techniques of software validation and reliability analysis to the development of computer programs. Acquire the knowledge, skills, experience and values to become lifelong learners able to obtain employment in a computer-related field or go on to graduate study. 	<p>2. Students can get knowledge about various types of computers and software's.</p> <p>Programming in C & Lab Training On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> Write, compile and debug programs in C language. Use different data types, operators and console I/O function in a computer program Design programs involving decision control statements, loop control statements and case control structures. Understand the implementation of arrays, pointers and functions and Structure Use the file operations, character I/O, string I/O, file pointers, pre-processor directives and create/update basic data files. <p>Digital Electronics On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits. To impart how to design Digital Circuits. <p>Data Structures On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> To impart the basic concepts of data structures and algorithms. To understand concepts about searching and sorting techniques. To understand basic concepts about stacks, queues, lists. <p>General English – I</p> <ol style="list-style-type: none"> To enable the students use English verbally and in writing and give them basic knowledge of grammar. To develop ability to use English for personal expression and creative purposes. Students will learn speaking, learning and writing skills. <p>Punjabi/Mudhla Gyan</p> <ol style="list-style-type: none"> ਨਾਵਲ ਦਾ ਅਧਿਐਨ ਕੀਤਾ ਪ੍ਰਗਟ ਸਿੰਘ ਸਿੰਧੂ ਦੇ ਨਾਵਲ ਦੇ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਸ਼ਬਦਾ ਉਲੇਖ ਕੀਤਾ ਵਾਤਾਵਰਣ ਤੇ ਸੱਭਿਆਚਾਰ ਪ੍ਰਤੀ ਬੱਚਿਆਂ ਨੂੰ ਜਾਗਰੂਕ ਕੀਤਾ। ਵਿਆਕਰਨ ਦੇ ਬੇਸਿਕ ਨਿਯਮਾਂ ਨੂੰ ਪੜ੍ਹਿਆ। ਲੇਖਕ ਜੋਗਿੰਦਰ ਸਿੰਘ ਪੁਆਰ ਦੇ ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਨਿਬੰਧ ਪੜ੍ਹ ਕੇ ਪਿੰਡਾ ਦੀ ਬਣਤਰ ਬਾਰੇ ਸਿਖਾਇਆ ਭਾਸ਼ਾ ਤੇ ਉਪਭਾਸ਼ਾ ਦੇ ਸੰਬੰਧ ਪ੍ਰਤੀ ਵੱਖਰੇਵਾਂ ਦੱਸਿਆ।
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			<p>Basic Mathematics</p> <ol style="list-style-type: none"> 1. To introduce students to some of the mathematical concepts to develop mathematical maturity. 2. To prepare students for mathematical oriented courses in computer science such as discrete mathematics, graph theory, analysis of algorithms and numerical methods.
			<p>BCA-II</p> <p><i>Fundamentals of Database Management System /RDBMS & Oracle and Lab Training</i></p> <p>This Describe the fundamental elements of relational database management systems. Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL. Design ER-models to represent simple database application scenarios</p> <p><i>Computer System Architecture</i></p> <p>On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basics of computer hardware and how software interacts with computer hardware. 2. Analyze and evaluate computer performance. 3. Understand how computers represent and manipulate data. 4. Understand computer arithmetic and convert between different number systems. <p><i>Oops Using C++ & Lab Training</i></p> <p>On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. To understand how C++ improves C with object-oriented features. 2. To learn how to design C++ classes for code reuse. 3. To learn how to implement copy constructors and class member functions. 4. To understand the concept of data abstraction and encapsulation <p><i>Management Information System</i></p> <p>Provide students with comprehensive knowledge and technical skills needed to successfully participate in and support the increasingly applied role of information technology in corporate decision making,</p> <p><i>Computer Networks</i></p> <p>On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. Describe the general principles of data communication. 2. Describe how computer networks are organized with the concept of layered approach.

			<ol style="list-style-type: none"> 3. Describe how signals are used to transfer data between nodes. 4. Implement a simple LAN with hubs, bridges and switches. 5. Describe how packets in the Internet are delivered. <p>Discrete Mathematics</p> <ol style="list-style-type: none"> 1. To provide mathematical background and sufficient experiences on various topics of discrete mathematics like matrix algebra, graph theory and logics and proofs. 2. The course will extend students logical and mathematical maturity and ability to deal with abstraction and introduce most of the basic terminologies used in computer science and applications. <p>English</p> <ol style="list-style-type: none"> 1. To develop positive attitude in students towards English & correct pronunciation. 2. To develop awareness of the importance of English as a means of International communication. <p>Punjabi</p> <ol style="list-style-type: none"> 1. ਸੰਪਾਦਕ ਲਖਵੀਰ ਸਿੰਘ ਦੀਆਂ ਵੱਖ-2 ਕਵਿਤਾਵਾਂ ਦਾ ਅਧਿਐਨ ਕਰਵਾਇਆ ਉਹਨਾਂ ਦੇ ਜੀਵਨ ਦੀਆਂ ਚੰਗੀਆਂ ਗੱਲਾਂ ਦਾ ਪ੍ਰਭਾਵ ਸਮਝਿਆ। 2. ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਦਾ ਅਨੁਵਾਦ ਕਰਵਾਇਆ 3. ਵਾਕ ਤੇ ਉਪਵਾਕ ਦੀ ਪਛਾਣ ਤੇ ਸਥਾਪਿਤ ਦੇ ਆਧਾਰ ਕਰਵਾਏ। 4. ਕਾਵਿ ਰੰਗ ਕਵਿਤਾਵਾਂ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਵੱਖ-2 ਕਵੀਆਂ ਦੇ ਮੁੱਖ ਕਵਿਤਾਵਾਂ ਦੀਆਂ ਜਾਣਕਾਰੀ। 5. ਅਨੁਵਾਦ 6. ਭਾਸ਼ਾ ਦਾ ਇਤਿਹਾਸ, ਲਿਪੀ ਸ਼ਬਦ ਜੋੜਾ ਪੁਰਾਤਨ ਇਤਿਹਾਸ <p>Comp Oriented Statistical Methods & Lab Training</p> <ol style="list-style-type: none"> 1. To provide conceptual understanding and knowledge of various numerical and statistical methods 2. This will help students in support of analysis, design and applications for problem solving in the field of computer applications.
			<p>BCA-III System Analysis & Design System analysts solve business problems through analysing the requirements of information systems and designing such systems by applying analysis and design techniques. This course deals with the concepts, skills, methodologies, techniques, tools, and perspectives</p>

		<p>essential for systems analysts.</p> <p>System Software</p> <ol style="list-style-type: none"> 1. Distinguish between Operating Systems software and Application Systems software. 2. Describe commonly used operating systems. 3. Identify the primary functions of an Operating System. 4. Describe the “boot” process. 5. Identify Desktop and Windows features. 6. Use Utility programs. <p>Java Programming & Lab Training</p> <ol style="list-style-type: none"> 1. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc. 2. Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc. 3. Have the ability to write a computer program to solve specified problems. <p>HTML & DHTML & Lab Training</p> <ol style="list-style-type: none"> 1. Students able to learn how to create a web page ,links between pages. 2. Learn formatting of web page data. 3. Learn how to create forms, tables , list, frames etc. <p>E-Commerce</p> <p>On completion of this course, the students will be able to :</p> <ol style="list-style-type: none"> 1. Recognize the impact of Information and Communication technologies, especially of the Internet in business operations. 2. Recognize the fundamental principles of e-Business and e-Commerce. 3. Distinguish the role of Management in the context of e-Business and e-Commerce <p>Operating System</p> <p>On completion of this course, the students will be able to :</p> <ol style="list-style-type: none"> 1. Learn the mechanisms of OS to handle processes and threads and their communication Use different data types, operators and console I/O function in a computer program. 2. Learn the mechanisms involved in memory management in contemporary OS. <p>Software Engineering</p> <ol style="list-style-type: none"> 1. How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment 2. Work as an individual and as part of a
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			<p>multidisciplinary team to develop and deliver quality software</p> <p>3. Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle</p> <p>ASP.net & Lab Training</p> <ol style="list-style-type: none"> 1. Create a Web form with server controls 2. Separate page code from content with code-behind pages, page controls, and components 3. Display dynamic data from a data source by using ADO.NET and data binding 4. Debug .NET Active Server Pages <p>English Literary Skills</p> <ol style="list-style-type: none"> 1. To develop ability to understand words, phrases and sentences & apply textual references. 2. To enable students to spell the words correctly and correct uses of grammar. <p>Punjabi Compulsory/Mudhla Gyan</p> <ol style="list-style-type: none"> 1. ਸਾਡਾ ਸੱਭਿਆਚਾਰ, ਸਾਡੇ ਰੀਤੀ ਰਿਵਾਜਾ ਧਰਮ ਬਾਰੇ ਜਾਣਕਾਰੀ, ਲੋਕ ਮਨਾ ਦੀ ਸਚਾਈ 2. ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ ਦੇ ਸੰਬੰਧ 3. ਵਿਆਕਰਨ ਦੇ ਨਿਯਮਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ 1. 1960 ਦੇ ਪੰਜਾਬੀ ਨਾਟਕਾ ਬਾਰੇ ਜਾਣਕਾਰੀ, ਮੰਚਾ ਦਾ ਪ੍ਰਦਰਸ਼ਨ 2. ਪੈਰੇ ਦਾ ਅਨੁਵਾਦ 3. ਵਿਆਕਰਨ ਵਿੱਚ ਕਾਰਕੀ ਸੰਬੰਧ, ਵਾਕਾਤਮਕ ਜੁਗਤਾ
	B.Lib		<p><u>B.Lib</u></p> <p><u>Foundation of Library & Information Science</u></p> <ol style="list-style-type: none"> 1. To provide a broad understanding of library and information science. 2. To prepare the students to provide library and information service in a rapidly changing technology and global society 3. To provide opportunities to develop and practice critical thinking, problem solving, communication etc. <p><u>Knowledge Organization and Information Processing : Classification Theory</u></p> <ol style="list-style-type: none"> 1. To provide the theoretical knowledge of classification schemes : DDC, CC, UDC, BC and LC 2. To provide the knowledge of the principle of Sayers, Bliss and Ranganathan <p><u>Knowledge Organization and Information Processing : Classification Practice</u></p> <ol style="list-style-type: none"> 1. To provide the practical knowledge of DDC and CC 2. To enable the learners to assign the call no. to the books. 3. To enable them to apply the knowledge of

			<p>DDC to create the informational brochure</p> <p><u>Management of Libraries and Information Centres</u></p> <ol style="list-style-type: none"> To provide the information for decision making on planning, initiating, organizing and controlling the operations of the subsystems of the firms. To provide a synergistic organization in the process <p><u>Library and its Users</u></p> <ol style="list-style-type: none"> To provide the right information at the right time in the right form to its users. To provide the knowledge, the need, purposes and uses of the library surveys. <p><u>Knowledge Organization and Information Processing : Cataloguing Theory</u></p> <ol style="list-style-type: none"> To provide the theoretical knowledge to prepare the catalogues. To provide the knowledge of AACR-2 and CCC <p><u>Knowledge Organization and Information Processing : Cataloguing Practice</u></p> <ol style="list-style-type: none"> To provide the practical knowledge to prepare the catalogue To provide the knowledge of AACR-2 and CCC <p><u>Information Sources and Services</u></p> <ol style="list-style-type: none"> To provide the knowledge of the Information Sources and Services which are included in the field of Library and Information Sciences. To enable the learners to use the sources such as : Encyclopedia, CAS, SDI <p><u>Index and Indexing System</u></p> <ol style="list-style-type: none"> To make them efficient in the filling method. To impart the knowledge regarding the development and various trends in the indexing and abstracting To prepare the students for indexing services and its evaluation
	B.Sc (NM)	<ul style="list-style-type: none"> B.Sc (Non-Med) is a three year UG Programe designed with an objective of intensive studies in science education. The aim of teaching and studying sciences is to encourage and enable students to develop inquiring minds and curiosity about science and the natural world, enquire knowledge, conceptual understanding and skills to solve problems and make 	<p><u>B.Sc (NM) – I Course Chemistry</u></p> <p><u>Inorganic Chemistry-I</u></p> <p>students will be able for the following:-</p> <ol style="list-style-type: none"> To understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information. To understand different principles for filling electrons. To understand how to draw energy diagrams. To understand how to calculate bond

		<p>informed decisions in scientific and other contexts.</p> <ul style="list-style-type: none"> The objective of science is expanding the present limits of our knowledge and understanding. It is not linked to any individual discoverer, scientist, institutes and universities, but like a growing coral reef builds a universal body of knowledge and understanding which is coherent, consistent and not conflicting with the latest required reliable empirical data. 	<p>order and will acquire the knowledge of the shapes of different orbitals.</p> <ol style="list-style-type: none"> To understand how to calculate lattice energy through Born Haber Cycle. <p>Physical Chemistry-I</p> <ol style="list-style-type: none"> Students will be able to describe the concept of pressure from a macroscopic and microscopic perspective. Students will describe the relationship between partial pressures and total pressure as described in Dalton's Law of partial pressure. Students will be able to explain the quantitative relationship between T, V, n & P as described by kinetic molecular theory. The students will be able to compare and contrast the chemical behavior and physical properties of common substances. The students will be able to classify matter by its state and bonding behavior using the periodic table as a reference. <p>Organic Chemistry-I</p> <p>students will be able for the following:-</p> <ol style="list-style-type: none"> To understand the core concepts of organic chemistry i.e. resonance, hyper conjugation, inductive effect etc. and their application. To study about the isomerism and types of isomerism. To acquire basic knowledge of reactive intermediates and mechanism of organic reactions. To study about nomenclature, synthesis, isomerism and physical properties of alkanes and cycloalkanes. To identify the difference between dienes and alkenes. <p>Inorganic Chemistry-II</p> <ol style="list-style-type: none"> The students will be able to understand general trends in the chemistry behind p-block elements. The students will be able to know the important compounds and important applications of compounds of boron and carbon. The students will understand the biological significance of sodium, potassium, magnesium and calcium. The students will be able to explain large scale preparation and properties of industrially viz., cement, plaster of paris,
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			<p>sodium hydroxide, sodium carbonate and bicarbonate etc.</p> <p>5. The students will be able to describe the salient features of alkali and alkaline earth metals.</p> <p>Physical Chemistry-II</p> <p>students will be able for the following :-</p> <ol style="list-style-type: none"> 1. To describe a reaction rate in terms of a change in concentration divided by a change in time (at constant volume) and a general form of a (differential) rate law. 2. To write a general form of the rate law for any chemical reaction and define the order of a chemical reaction. 3. To determine integrated rate expression for zero order, first order, second and third order reaction and their respective half life period expressions. 4. To study the various factors which affect the rate of a chemical reaction such as concentration ,temperature, solvent, catalyst etc. And theories of chemical kinetics. 5. To acquire basic knowledge of electrode conduction. <p>Organic Chemistry-II</p> <p>Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To identify addition reactions for alkenes and alkynes. 2. To understand the nature of double and triple bonds for addition reactions. 3. To understand optical isomerism, geometric isomerism and conformational isomerism. 4. To understand the mechanism of attack of electrophiles and nucleophiles. 5. To understand the preparation methods for alkenes, alkynes, alkyl halides. <p>Computer Course :</p> <p>Fundamentals of Information Technology</p> <ol style="list-style-type: none"> 1. To Provide students the knowledge about Hardware & Software 2. To make students aware about the concepts of Input and Output devices including their working 3. To impart knowledge regarding current trends of Technology <p>MS Office Automation Tools</p> <ol style="list-style-type: none"> 1. To open an existing file and save it with a new name 2. Perform commands from the ribbon and quick access toolbar
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			<p>3. Apply formatting in Office programs</p> <p><u>Mathematical Course</u></p> <p><i>Partial Differential Equation</i></p> <ol style="list-style-type: none"> 1. Solve Ordinary partial differential equation 2. Create the importance of numerical methods 3. Select the appropriate method for any particular problem 4. Assess the reliability of the partial differential technique <p><i>Analytic Geometry</i></p> <ol style="list-style-type: none"> 1. To make students understand about the equation plan using two point form, three point form 2. Laws of point that are equidistant to two given points 3. Students learn that how to determine equation of sphere, straight line, co-axial limiting point of sphere etc. <p><i>Co-ordinate Geometry</i></p> <ol style="list-style-type: none"> 1. Students will be able to learn Basic of Parabola 2. Students will be able to learn equation of tangent. <p><i>Ordinary differential equations</i></p> <ol style="list-style-type: none"> 1. Ordinary differential equations have important applications and are a powerful tool in the study of many problems in natural science and in technology. 2. They are extensively employed in mechanics, astronomy, physics & in many problems of Chemistry and Biology. 3. Newton's Law of Mechanics make it possible to reduce the description of motion of mass points or solid bodies to solve ordinary differential equations. 4. Most important applications are in theory of oscillations & in automatic control theory. <p><i>Calculus</i></p> <ol style="list-style-type: none"> 1. The course on calculus deals with some important concept of limit, continuity, differentiability of functions. 2. It also deals with tracing of curves, reduction formulae, rectification, quadrature and volume of solids of revolution. <p><i>Algebra</i></p> <ol style="list-style-type: none"> 1. The course on algebra deals with advance topics on matrices, rank, eigen values. 2. It deals with homogeneous and non homogeneous systems, solutions of cubic and bi-quadratic equations. <p><u>Physics Course</u></p>
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		<p>Paper-A (Mechanics-I) Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. Acquires a thorough understanding of various coordinate systems. 2. Understands the Kepler laws, relationship of conservation laws and symmetries of space and time. 3. Understands the equation of motion under central forces and equation of orbit in inverse square force field and turning points. 4. Understands the coriolis force, focault pendulum and variation of acceleration due to gravity with latitude. 5. Understands the concept of elastic collision in laboratory and C.M. system and Rutherford scattering. <p>Paper-B (Vibrations and waves-I) Students will be able for the following :-</p> <ol style="list-style-type: none"> 1. Understands the concept of simple harmonic motion and compound pendulum. 2. Understands the composition of two perpendicular SHM of same period and of period ratio 1:2 and anharmonic oscillations. 3. Understands the types of damping and determination of damping coefficient-logarithmic decrement, relaxation time and Q-factor. 4. Understands the differential equation for forced mechanical and electrical oscillations. 5. Understands the displacement and velocity variation with driving force frequency and power supplied to an oscillator and its variation with frequency. <p>Paper-C (Electricity and magnetism-I) Students will be able for the following :-</p> <ol style="list-style-type: none"> 1. Understands the concept of gradient, divergence and curl and their physical significance. 2. Understands the Gauss Divergence theorem , Stokes theorem, Poisson's and Laplace equation. 3. Understands the concept of current ,current density, microscopic form of Ohm's law and conductivity. 4. Understands the invariance of charge , E in different frames of reference and field of a point charge moving with constant velocity. 5. Understands the interaction between moving charges and force between parallel currents. <p>Paper-A (Mechanics-II)</p>
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			<p>Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. Understands the rigid body motion, rotational motion , principal moments and axes, Euler’s equations. 2. Understands the Galilean transformation and invariance, concept of stationary universal frame of reference and ether. 3. Understands the Michelson-Morley experiment and its results. 4. Understands the postulates of special theory of relativity, Lorentz transformations and relativity of simultaneity, length , time and velocities. 5. Understands the variation of mass with velocity, relativistic momentum and energy and concept of minkowski space. <p>Paper- B (Vibrations and waves –II)</p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Stiffness coupled oscillators, inductance coupling of electrical oscillators, types of waves wave equation and its solution, characteristics impedance of a string. 2. Reflection and transmission of string, wave and group velocity, standing wave on a string of fixed length. 3. Maxwell’s equations, electromagnetic waves, impedance of a dielectric to EM waves. 4. EM waves velocity in a conductor an anomalous dispersion, response of a conducting medium of EM waves. 5. Reflection and transmission of EM waves at a boundary of two dielectric media for normal incidence. <p>Paper- C (Electricity and Magnetism –II)</p> <p>Students will be able to understand the following :-</p> <ol style="list-style-type: none"> 1. Behaviour of various substances in magnetic field, permeability and susceptibilities and their inter-relationship, electron spin and paramagnetism. 2. Ferromagnetism and its domain theory, Hysteresis loss, Magnetization curve ferrites. 3. Lorentz’s force, Biot Savart’s law, Amper’s circuital law and its applications. 4. Divergence and curl of B, Hall effect, Transformation equations of E and B from one frame to another, Faraday’s law and EM induction. <p>Mutual inductance and reciprocity theorem, self inductance L for solenoid, couplin of electrical circuits, LCR series and parallel resonant circuits.</p>
			B.Sc (NM) – II

			<p>Course Chemistry <i>Inorganic Chemistry-I</i> In order to study transition metals to understand the trends in properties and reactivity of the d-block elements.</p> <ol style="list-style-type: none"> 1. Students will be able to identify simple compound classes for transition metals and describe their chemical properties. 2. To make the students understand that solutions which have water as a solvent are called aqueous solutions and those with solvent other than water are called non-aqueous solutions. 3. The students will know that that equivalent weight of an acid and base can be find out from their molecular weight and the acidity and basicity of that compound. 4. The students will understand that there are different methods of expressing concentration of a solution such as mass percent, ppm, normality, molarity, and molality. <p><i>Physical Chemistry-I</i> Students will be able for the following :-</p> <ol style="list-style-type: none"> 1. To understand thermodynamic terms: system, surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials. 2. To understand Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule's law 3. To understand the concept of equilibrium constant, free energy, chemical potential 4. To understand the Nernst distribution law – its thermodynamic derivation, modification of distribution law when solute undergoes dissociation, association and chemical combination. Applications of distribution law 5. To understand the determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride <p><i>Organic Chemistry-I</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the methods for preparation of alcohols. 2. To understand the different classes of alcohols. 3. To understand the structure of carboxylic acid and their derivatives. 4. To understand the reactivity of different carboxylic acid derivatives. 5. To understand the chemical reactions of phenols.
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			<p><i>Inorganic Chemistry-II</i></p> <ol style="list-style-type: none"> 1. The students will understand the importance of periodic table of the elements, how it came to be and its role in organizing chemical information. 2. The students will develop the ability to effectively communicate scientific information and research results in written and oral formats. 3. The students will learn the laboratory skills needed to design, safely conduct and interpret chemical research. 4. The primary aim of a qualitative research is to provide a complete detailed description of the research topic. 5. Quantitative research focuses more in counting and classifying features and constructing statistical models and figures to explain what is observed. <p><i>Physical Chemistry-II</i> Students will be able for the following :-</p> <ol style="list-style-type: none"> 1. To understand the concepts of thermodynamics and its laws 2. To understand the entropy change in reversible and irreversible reaction 3. To understand the physical significance of third law of thermodynamics 4. To understand the concepts of electrochemistry 5. To understand the working and reaction of electrochemical cells <p><i>Organic Chemistry-II</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand how to name different aldehydes and ketones. 2. To understand the reactivity of different carbonyl compounds towards nucleophilic reaction. 3. To understand how to write the products of addition reaction to carbonyl compounds. 4. To understand to differentiate between primary, secondary and tertiary amines. <p>To determine the percentage composition of a liquid sample mixture by the application of Beers Law.</p> <p><u>Computer Course :</u> <i>C Programming and Data Structures</i></p> <ol style="list-style-type: none"> 1. The major objective of C language is to provide students with understanding of code organization. 2. Ability to work with Arrays 3. Ability to handle possible errors during program execution. 4. To impart the basic concepts of data structures and algorithms 5. To understand concepts about searching
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			<p>and sorting techniques</p> <ol style="list-style-type: none"> 6. To understand basic concepts about stacks, queues, lists, trees and graphs 7. To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures <p><i>Database Management System</i></p> <ol style="list-style-type: none"> 1. Multiple Users Access. No one handles the whole database alone 2. Data Protection 3. Data Backup and recovery 4. Integrity 5. Platform Independent <p><u>Mathematical Course</u></p> <p><i>Analysis</i></p> <ol style="list-style-type: none"> 1. The real numbers, least upper bounds, countable and uncountable sets. Recognize convergent, divergent, bounded, Cauchy and monotone sequences. 2. Calculate the limit superior, limit inferior, and the limit of a sequence. 3. Recognize alternating, convergent, conditional and absolutely convergent series. 4. Apply the ratio, root and limit comparison tests. 5. Subsets of a metric space, open, closed, connected, bounded, totally bounded and compact sets. 6. Function on a metric space, discontinuous, continuous, or uniformly continuous functions <p><i>Numerical Methods-II</i></p> <ol style="list-style-type: none"> 1. The objectives of studying this module are to make the students familiarize with the ways of solving complicated mathematical problems numerically. 2. Students become familiar with MATLAB and other convenient numerical software such as Microsoft Excel and with simple programming. 3. Describing and understanding of the several errors and approximation in numerical methods. 4. The aim is to teach the student various topics in Numerical Analysis such as solutions of nonlinear equations in one variable, interpolation and approximation. <p><i>Studying statics & dynamics</i></p>
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			<ol style="list-style-type: none"> 1. The primary purpose of the study is to develop the capacity to predict the effect of force & motion while carrying out the creative design function of science. 2. This capacity requires more than a mere knowledge of physical & mathematical principles of mechanics. 3. One of primary objectives in a mechanics course is to help the student develop the ability to visualize which is so vital to problem formulation maximum progress is made when the principles & their limitations are learned together with in the context of us application. <p><i>Advance Calculus</i></p> <ol style="list-style-type: none"> 1. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability. 2. To understand the maximum and minimum behavior o a function of two variables. 3. To understand different indeterminate form of limit. <p><u>Physics Course</u></p> <p><i>Paper-A (Statistical Physics and Thermodynamics -I)</i></p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Basic ideas of statistical physics , probability, microstate, macrostate and effects of constraints on the system. 2. Deviation from the state of maximum probability, equilibrium state of dynamic system. 3. Distribution of n distinguishable particles in k compartments of unequal sizes, phase space and its division into elementary cells. 4. Three kind of statistics- Maxwell Boltzmann statistics, Bose Einstein statistics and Fermi Dirac statistics. 5. Planck's radiation law, Wien's displacement law and Stefan's law from Planck's law. <p><i>Paper-B (Optics)</i></p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Interference - Concept of coherence, conditions for observing interference fringes, Interference by wavefront and amplitude division. 2. Michelson's interferometer, Fabry-Perot interferometer, Newton rings and multiple beam interference. 3. Diffraction- Huygen's Fresnel theory, half period zones , zones plate, effects of diffraction in optical imaging, diffraction grating and its use as a spectroscopic
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			<p>element.</p> <ol style="list-style-type: none"> 4. Polarization- concept and analytical treatment of unpolarized, plane polarized and elliptically polarized light. 5. Production and analysis of polarized light, concept of double refraction , nicol prism, sheet polarizer and retardation plates. <p><i>Paper-C (Quantum Mechanics-I)</i> Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Formalism of wave mechanics – Development of quantum mechanics, wave-particle duality, de-broglie hypothesis, uncertainty principle. 2. Schrodinger wave equation for a free particle, concept of normalization and probability. 3. Concept of wave function, expectation value, fundamental postulates of wave mechanics. 4. Time dependent Schrodinger wave equation, Rectangular potential well problem in one and three dimensions, linear harmonic oscillator. 5. Schrodinger equation for spherical symmetric potential spherical harmonics, Hydrogen atom energy levels and eigen functions. <p><i>Paper-A (Statistical Physics and Thermodynamics -II)</i> Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Concept of entropy and its additive nature, Reversible and irreversible process, entropy and disorder. 2. Laws of thermodynamics, Carnot's cycle , entropy changes in carnot cycle. 3. Applications of thermodynamics to thermoelectric effect, entropy of a perfect gas, Heat death of universe. 4. Maxwell's thermodynamical relations, cooling produced by adiabatic stretching, change of state and clayperon equation. 5. Thermodynamical treatment of Joule-thomson effect, liquification of helium, production of very low temperature by adiabatic demagnetization. <p><i>Paper-B (Lasers)</i> Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Concept of stimulated emission and population inversion, Einstein's relation. 2. Three level and four level laser schemes, elementary theory of optical cavity. 3. Absorption and amplification of a parallel beam of light passing through a medium, broadening of spectral lines. 4. Types of lasers- Ruby laser, Nd-YAG laser, He-Ne laser , CO₂ laser,
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			<p>semiconductor laser and dye lasers</p> <p>5. Q-switching , mode locking, applications of lasers and basics of holography.</p> <p>Paper-C (Quantum Mechanics-II)</p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Excitation of atom with radiation, spontaneous transition, spectrum of hydrogen atom, Frank-Hertz experiment. 2. Normal and anomalous Zeeman effect, concept of electron spin, Stern Gerlach experiment, hyperfine structure. 3. Many electron system spectra- exchange symmetry of wave functions, exclusion principle, shells and sub shells in atoms, L-S coupling. 4. X-ray spectra, Mosley law, absorption spectra, Auger effect and regularities in atomic spectra. 5. Rotational and vibrational electronic levels, Raman spectra.
			<p>B.Sc (NM) – III</p> <p>Course Chemistry</p> <p>Inorganic Chemistry-I</p> <p>Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the concepts of metal ligand bonding in transition complex compounds. 2. To understand the thermodynamics and kinetic aspects of metal complexes. 3. To understand the nomenclature, classification, properties and preparations of coordination compounds. 4. To understand the chemistry of organometallic compounds, homogenous hydrogenation and carbonyls. <p>Physical Chemistry-I</p> <ol style="list-style-type: none"> 1. To understand the concept of black body radiations. 2. To understand the concept of wave functions. 3. To understand different properties of molecular structure. 4. To understand the basic features of spectroscopy. 5. To understand the Harmonic Oscillator. <p>Organic Chemistry-I</p> <ol style="list-style-type: none"> 1. In order to study the NMR spectroscopy to understand the important role of nuclear magnetic resonance spectroscopy in the study of the structures of organic compounds. 2. To develop an understanding of the significance of the number, positions, intensities and splitting of signals in nuclear magnetic resonance spectra.

			<ol style="list-style-type: none"> 3. To be able to assign structures to simple molecules on the basis of nuclear magnetic resonance spectra. 4. In order to study carbohydrates will develop the skills to recognize and draw particular carbohydrate structures. 5. To know general structural elements of cyclic monosaccharide and disaccharides and their implications for structure and function. <p><i>Inorganic Chemistry-II</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the role of metal ions in biological system. 2. To understand the role of metal ions in oxygen transport. 3. To understand the concept of acid and bases. 4. To understand the uses of inorganic polymers. 5. To understand the nature of bonding of different metals with carbon atom <p><i>Physical Chemistry-II</i> students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the transitions through electronic spectroscopy 2. To understand the term symbols of diatomic molecules 3. To understand the different type of vapour pressure curves 4. To understand the ideal and non ideal solutions and their behaviour 5. To understand the thermodynamics of one and two component system. <p><i>Organic Chemistry-II</i></p> <ol style="list-style-type: none"> 1. The main aim of Heterocyclic compounds study is to develop novel, efficient, convenient, selective and environmentally benign synthetic methods in organic chemistry. 2. The objective of the present study of heterocyclic compounds is to develop green methodologies for the synthesis of nitrogen containing heterocyclic. 3. The students will be aware about most of drugs in the present market are the compounds containing various heterocyclic moieties. 4. To enable students to acquire a specialised knowledge and understanding of selected aspects by means of lecture series and a research project. 5. The course aims to provide an advanced understanding of the core principles and topics of biochemistry and their experimental basis.
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			<p>Computer Course :</p> <p><i>Object Oriented Programming using C++</i></p> <ol style="list-style-type: none"> 1. To learn how C++ improves C with object-oriented features 2. To learn how to design C++ classes for code reuse 3. To understand the concept of Data Abstraction & Encapsulation 4. To understand how to inherit data from one class to another <p><i>Introduction to Computer Network & Internet Programming</i></p> <ol style="list-style-type: none"> 1. To study basic concepts of Data Flow, Topologies & Transmission Media 2. To enrich the students with security Technology <p>To impart the concepts of Error Detection & Correction</p> <p><u>Mathematical Course</u></p> <p><i>Algebra-I</i></p> <ol style="list-style-type: none"> 1. This course aims to provide a first approach to the subject of algebra, which is one of the basic pillars of modern mathematics. 2. The focus of the course will be the study of certain structures called groups, rings, fields and some related structures. 3. Abstract algebra gives to student a good mathematical maturity and enables to build mathematical thinking and skill. <p><i>Discrete Mathematics –I</i></p> <ol style="list-style-type: none"> 1. Simplify and evaluate basic logic statements including compound statements, implications, inverses, converses, and contrapositives using truth tables and the properties of logic. 2. Express a logic sentence in terms of predicates, quantifiers, and logical connectives 3. Apply the operations of sets and use Venn diagrams to solve applied problems, solve problems using the principle of inclusion-exclusion. 4. Determine the domain and range of a discrete or non-discrete function, graph functions, identify one-to-one functions, perform the composition of functions, find graph the inverse of a function, and apply the properties of functions to application problems. <p><i>Mathematical Methods</i></p> <ol style="list-style-type: none"> 1. The goal for the course is to gain a facility with using the transform, both specific techniques and general principles, learning to recognize when why and how it is used.
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			<p>Algebra – II</p> <ol style="list-style-type: none"> 1. How to analyze and solve a linear system of equations 2. Important characteristics of matrices such as its four fundamentals subspaces, rank, determinant, eigen values and eigen vectors, different factorizations etc. 3. Important concepts of vector spaces such as independence, basis, dimensions, orthogonally etc. <p>Discrete Mathematics-II</p> <ol style="list-style-type: none"> 1. To impart the basic principles of Boolean algebra, logic, set theory 2. Permutations & Combinations and graph Theory 3. Be able to understand logical arguments and logical constructs <p>Physics Course</p> <p>Paper-A (Condensed matter physics - I)</p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Crystal structure , symmetry operations for a two dimensional crystal, two and three dimensional bravias lattices. 2. Concept of Crystal planes and Miller indices, Diamond and NaCl structure, Packing fraction for cubic and hexagonal closed packed structure. 3. Concept of crystal diffraction, Bragg's law, laue equations. 4. Reciprocal lattice of SC, BCC and FCC, Bragg's law in reciprocal lattice. 5. Brillouin zones and its derivation in two dimensions, structure factor and atomic form factor. <p>Paper-B (Electronics-I)</p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Concept of current and voltage sources, P-N junction diode and its biasing, Zener diode and voltage regulation. 2. Concept of rectification: half wave, full wave and bridge rectifier, Voltage multiplier circuits. 3. Junction transistor, amplifying action, different configurations of a transistor and their comparisons, CB and CE characteristics. 4. Structure, characteristics and operation of FET, JFET and MOSFET. 5. Photoconductive devices: Photoconductive cell, Photodiode, solar cell, LED, LCD. <p>Paper-C (Nuclear and radiation Physics)</p> <p>Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Constituents of nucleus and their intrinsic properties, Nuclear force and its properties.average binding energy and its
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			<p>variation with mass numbers.</p> <ol style="list-style-type: none"> 2. Liquid drop model and semi empirical formula, nuclear shell model, experimental evidence of magic numbers and its explanation. 3. Concept of radioactivity, alpha emission, beta decay and neutrino hypothesis of beta decay. 4. Nuclear reactions , reaction cross section , internal conversion and conservation laws. 5. Kinematics of nuclear reactions, Q-value and its physical significance, compound nucleus, possible reaction with high energy particles <p>Paper-A (Condensed matter physics -I I) Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Concept of phonons, lattice vibrations, scattering of protons by phonons, vibrations of mono-atomic, di-atomic and linear chains. 2. Einstein and debye models of specific heat, free electron model of metals, fermi gas and fermi energy. 3. Band theory, Kronig-Penney model, conductivity and its variation with temperature in semiconductors. 4. Fermi levels in intrinsic and extrinsic semiconductors, band gap in semiconductors. 5. Concept of superconductivity, magnetic field effect in superconductors, BCS theory and thermal properties of superconductors. <p>Paper-B (Electronics-II) Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Constuction, characteristics and operation of Thyristor, SCR, TRIAC, DIAC , UJT, IMPATT and TRAPATT devices 2. Thermistors and its types. Gunn effect and diodes, negative differential resistivity and domain formation. 3. Transistor biasing and stabilization of operating point. 4. CE amplifier, determination of current gain, power gain, input impedance, FET amplifier. 5. Concept of feedback in amplifiers, types and advantage sof negative feedback, emitter follower as negative feedback circuit. <p>Paper-C (Nuclear and particle Physics) Students will be able to understand the following :</p> <ol style="list-style-type: none"> 1. Energy loss due to ionization, Bremstrahlung, interaction of gamma rays with matter, radiation loss by fast
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			<p>electrons.</p> <ol style="list-style-type: none"> 2. Cyclotron, betatron, synchrotron, collider machines and linear accelerator. 3. Ionization chamber, proportional counter, GM counter, scintillation counter, solid state detectors. 4. Elementary particles and their masses, decay modes, classification of these particles, conservation laws and quantum numbers. 5. Concepts of isospin, strangeness, parity, charge conjugation and Quarks .
	B.Sc (Med)	<ul style="list-style-type: none"> • B.Sc (Med) is a three year UG Programme designed with an objective of intensive studies in science education. The aim of teaching and studying sciences is to encourage and enable students to develop inquiring minds and curiosity about science and the natural world, enquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in scientific and other contexts. • The objective of science is expanding the present limits of our knowledge and understanding. It is not linked to any individual discoverer, scientist, institutes and universities, but like a growing coral reef builds a universal body of knowledge and understanding which is coherent, consistent and not conflicting with the latest required reliable empirical data. 	<p>B.Sc (Med) – I <u>Course Chemistry</u> <i>Inorganic Chemistry-I</i> students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information. 2. To understand different principles for filling electrons. 3. To understand how to draw energy diagrams. 4. To understand how to calculate bond order and will acquire the knowledge of the shapes of different orbitals. 5. To understand how to calculate lattice energy through Born Haber Cycle. <p><i>Physical Chemistry-I</i></p> <ol style="list-style-type: none"> 1. Students will be able to describe the concept of pressure from a macroscopic and microscopic perspective. 2. Students will describe the relationship between partial pressures and total pressure as described in Dalton's Law of partial pressure. 3. Students will be able to explain the quantitative relationship between T,V, n & P as described by kinetic molecular theory. 4. The students will be able to compare and contrast the chemical behavior and physical properties of common substances. 5. The students will be able to classify matter by its state and bonding behavior using the periodic table as a reference. <p><i>Organic Chemistry-I</i> students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the core concepts of organic chemistry i.e. resonance, hyper conjugation, inductive effect etc. and their application.

			<ol style="list-style-type: none"> 2. To study about the isomerism and types of isomerism. 3. To acquire basic knowledge of reactive intermediates and mechanism of organic reactions. 4. To study about nomenclature, synthesis, isomerism and physical properties of alkanes and cycloalkanes. 5. To identify the difference between dienes and alkenes. <p><i>Inorganic Chemistry-II</i></p> <ol style="list-style-type: none"> 1. The students will be able to understand general trends in the chemistry behind p-block elements. 2. The students will be able to know the important compounds and important applications of compounds of boron and carbon. 3. The students will understand the biological significance of sodium, potassium, magnesium and calcium. 4. The students will be able to explain large scale preparation and properties of industrially viz., cement, plaster of paris, sodium hydroxide, sodium carbonate and bicarbonate etc. 5. The students will be able to describe the salient features of alkali and alkaline earth metals. <p><i>Physical Chemistry-II</i></p> <p>students will be able for the following :-</p> <ol style="list-style-type: none"> 1. To describe a reaction rate in terms of a change in concentration divided by a change in time (at constant volume) and a general form of a (differential) rate law. 2. To write a general form of the rate law for any chemical reaction and define the order of a chemical reaction. 3. To determine integrated rate expression for zero order, first order, second and third order reaction and their respective half life period expressions. 4. To study the various factors which affect the rate of a chemical reaction such as concentration ,temperature, solvent, catalyst etc. And theories of chemical kinetics. 5. To acquire basic knowledge of electrode conduction. <p><i>Organic Chemistry-II</i></p> <p>Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To identify addition reactions for alkenes
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			<p>and alkynes.</p> <ol style="list-style-type: none"> 2. To understand the nature of double and triple bonds for addition reactions. 3. To understand optical isomerism, geometric isomerism and conformational isomerism. 4. To understand the mechanism of attack of electrophiles and nucleophiles. 5. To understand the preparation methods for alkenes, alkynes, alkyl halides. <p><u>Course Zoology</u> <i>Cell Biology</i></p> <ol style="list-style-type: none"> 1. Students will understand the structures and purposes of basic components of Prokaryotic and Eukaryotic Cells. 2. Students will understand how these cellular components are used to generate and utilize energy in cells. 3. Students will apply their knowledge of cell biology to understand the response of cell function to environmental changes. 4. Students will understand cellular components participate in mitotic cell division. 5. Students will understand the alteration of cell function brought about by mutation. <p><i>Biodiversity</i></p> <ol style="list-style-type: none"> 1. To make the students know what biodiversity means locally, nationally and globally. 2. They can investigate local biodiversity, exploring the past and present as well as predicting the future diversity of our locale. 3. Study develops an understanding about connection between human actions and the level of biological diversity found within a habitat. <p><i>Ecology</i></p> <ol style="list-style-type: none"> 1. Students will understand the factors that affect the biological diversity and the functioning of ecological system. 2. Study describes biotic and abiotic factors that affect the distribution, dispersal and behavior of organisms. 3. It describes the structure and function of ecological system. 4. Students will understand how energy is transferred from producers to consumers. 5. Describes how interaction between organisms and between organisms and their environment are influenced by multiple factors. <p><u>Course Botony</u> <i>Diversity of MICROBES and CRYPTOGAMS</i></p>
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			<ol style="list-style-type: none"> 1. The course is designed to familiarize the students with microbes and cryptogams. 2. To acquaint the students about the structure, reproduction of viruses, bacteria, cyanobacteria, lichens and fungi. 3. To impart knowledge to the students about classification, range of thallus, cell structures and reproduction of representatives of different groups of algae, bryophytes and pteridophytes. <p><i>Cell Biology and Genetics</i></p> <ol style="list-style-type: none"> 1. To impart knowledge about the structure and purpose of basic component of Prokaryotic and Eukaryotic cells. 2. To impart knowledge to students about the ultra structure and functions of cells and cell organelles like cell membrane mitochondria, plastids, ribosomes and golgi body. 3. To acquaint the students about the nature of genetic material, structure and replication of DNA, Cell division, genetic inheritance, transcription and translation. <p><u>English</u></p> <ol style="list-style-type: none"> 1. To establish humanity aspects through literature. 2. To introduce with prose, fiction & biography. 3. To introduce with the lifestyle of selected scientists.
			<p><u>B.Sc (Med) – II</u> <u>Course Chemistry</u> <i>Inorganic Chemistry-I</i></p> <p>In order to study transition metals to understand the trends in properties and reactivity of the d-block elements.</p> <ol style="list-style-type: none"> 1. Students will be able to identify simple compound classes for transition metals and describe their chemical properties. 2. To make the students understand that solutions which have water as a solvent are called aqueous solutions and those with solvent other than water are called non-aqueous solutions. 3. The students will know that that equivalent weight of an acid and base can be find out from their molecular weight and the acidity and basicity of that compound. 4. The students will understand that there are different methods of expressing concentration of a solution such as mass percent, ppm, normality, molarity, and molality.

			<p><i>Physical Chemistry-I</i></p> <p>Students will be able for the following :-</p> <ol style="list-style-type: none"> 1. To understand thermodynamic terms: system, surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials. 2. To understand Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule's law 3. To understand the concept of equilibrium constant, free energy, chemical potential 4. To understand the Nernst distribution law – its thermodynamic derivation, modification of distribution law when solute undergoes dissociation, association and chemical combination. Applications of distribution law 5. To understand the determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride <p><i>Organic Chemistry-I</i></p> <p>Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the methods for preparation of alcohols. 2. To understand the different classes of alcohols. 3. To understand the structure of carboxylic acid and their derivatives. 4. To understand the reactivity of different carboxylic acid derivatives. 5. To understand the chemical reactions of phenols. <p><i>Inorganic Chemistry-II</i></p> <ol style="list-style-type: none"> 1. The students will understand the importance of periodic table of the elements, how it came to be and its role in organizing chemical information. 2. The students will develop the ability to effectively communicate scientific information and research results in written and oral formats. 3. The students will learn the laboratory skills needed to design, safely conduct and interpret chemical research. 4. The primary aim of a qualitative research is to provide a complete detailed description of the research topic. 5. Quantitative research focuses more in counting and classifying features and constructing statistical models and figures to explain what is observed. <p><i>Physical Chemistry-II</i></p>
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			<p>Students will be able for the following :-</p> <ol style="list-style-type: none"> To understand the concepts of thermodynamics and its laws To understand the entropy change in reversible and irreversible reaction To understand the physical significance of third law of thermodynamics To understand the concepts of electrochemistry To understand the working and reaction of electrochemical cells <p><i>Organic Chemistry-II</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> To understand how to name different aldehydes and ketones. To understand the reactivity of different carbonyl compounds towards nucleophilic reaction. To understand how to write the products of addition reaction to carbonyl compounds. To understand to differentiate between primary, secondary and tertiary amines. To determine the percentage composition of a liquid sample mixture by the application of Beers Law. <p><u>Course Zoology</u> <i>Evolution</i></p> <ol style="list-style-type: none"> Students will understand the evidence that living species share descent from common ancestry and how this fact explains the traits of living species. It describes that evolution cause changes in genetic composition of population. Student will understand the sources of genetic variation. Study describes the concept of fitness and how heritable difference in fitness results in natural selection. Describes the process of allopatric speciation Study describes that the relatedness of two species is determined by how recently they share a common ancestor. <p><i>Biochemistry</i></p> <ol style="list-style-type: none"> To provide an advanced understanding of the core principles of biochemistry and their experimental basis and enable students to acquire a specialized knowledge about molecular nature of Eukaryotic cells and organelles include membranes. Students will understand dietary requirements of human and selected domestic animals.
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			<ol style="list-style-type: none"> 3. They can understand the metabolism of all food components i.e. Carbohydrate, Lipids and Proteins etc. 4. The principles and major mechanism of metabolic control and of molecular signalling by hormones. 5. They can understand the control of cell proliferation. 6. Course describes how the DNA in Genome is organized, replicated and repaired, and how genes are transmitted between generations. <p><i>Animal Physiology</i></p> <ol style="list-style-type: none"> 1. Students will be able to explain the molecular and cellular basis of Physiological functions in animals. 2. To provide students with the basic understanding of the fundamental process and mechanism that serves and controls the various functions of the body. 3. To make students learn the proper and safe use of animals and modern laboratory equipments to conduct research. 4. To give a basic understanding and develop the ability to think critically on the issues in animal physiology. <p><u>Course Botony</u> <i>Diversity and Systematic of Gymnosperms and Angiosperms</i></p> <ol style="list-style-type: none"> 1. To impart knowledge to students about the general characters, classification, evolution and diversity of representatives of different gymnosperms. 2. To impart knowledge about general characters of Cycadales, Coneferales, Ephedrales and Gnetales & also morphology, anatomy, reproduction and life cycle of cycas, Pinus, Ephedra and Gnetum. 3. To acquaint the students about the origin and evolution of Angiosperms, Angiosperm taxonomy, diagnostic feature and technical description of angiosperm families. <p><i>Plant Anatomy</i></p> <ol style="list-style-type: none"> 1. To impart knowledge to students about tissue system, root, shoot and leaf anatomy. 2. To impart knowledge to students about the cambium and its functions. Secondary growth including anomalous secondary growth and stomata types. <p><i>Development and Reproduction in Flowering Plants</i></p> <ol style="list-style-type: none"> 1. To acquaint the students about the vegetative and sexual reproduction in angiosperms, structure of male and female gametophytes
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			<p>and post fertilization changes.</p> <p>2. To impart knowledge about inflorescence types, structure of anther and pistil.</p>
			<p>B.Sc (Med) – III <u>Course Chemistry</u> <i>Inorganic Chemistry-I</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the concepts of metal ligand bonding in transition complex compounds. 2. To understand the thermodynamics and kinetic aspects of metal complexes. 3. To understand the nomenclature, classification, properties and preparations of coordination compounds. 4. To understand the chemistry of organometallic compounds, homogenous hydrogenation and carbonyls. <p><i>Physical Chemistry-I</i></p> <ol style="list-style-type: none"> 6. To understand the concept of black body radiations. 7. To understand the concept of wave functions. 8. To understand different properties of molecular structure. 9. To understand the basic features of spectroscopy. 10. To understand the Harmonic Oscillator. <p><i>Organic Chemistry-I</i></p> <ol style="list-style-type: none"> 1. In order to study the NMR spectroscopy to understand the important role of nuclear magnetic resonance spectroscopy in the study of the structures of organic compounds. 2. To develop an understanding of the significance of the number, positions, intensities and splitting of signals in nuclear magnetic resonance spectra. 3. To be able to assign structures to simple molecules on the basis of nuclear magnetic resonance spectra. 4. In order to study carbohydrates will develop the skills to recognize and draw particular carbohydrate structures. 5. To know general structural elements of cyclic monosaccharide and disaccharides and their implications for structure and function. <p><i>Inorganic Chemistry-II</i> Students will be able for the following:-</p> <ol style="list-style-type: none"> 1. To understand the role of metal ions in biological system. 2. To understand the role of metal ions in

			<p>oxygen transport.</p> <ol style="list-style-type: none"> To understand the concept of acid and bases. To understand the uses of inorganic polymers. To understand the nature of bonding of different metals with carbon atom <p>Physical Chemistry-II students will be able for the following:-</p> <ol style="list-style-type: none"> To understand the transitions through electronic spectroscopy To understand the term symbols of diatomic molecules To understand the different type of vapour pressure curves To understand the ideal and non ideal solutions and their behaviour To understand the thermodynamics of one and two component system. <p>Organic Chemistry-II</p> <ol style="list-style-type: none"> The main aim of Heterocyclic compounds study is to develop novel, efficient, convenient, selective and environmentally benign synthetic methods in organic chemistry. The objective of the present study of heterocyclic compounds is to develop green methodologies for the synthesis of nitrogen containing heterocyclic. The students will be aware about most of drugs in the present market are the compounds containing various heterocyclic moieties. To enable students to acquire a specialised knowledge and understanding of selected aspects by means of lecture series and a research project. The course aims to provide an advanced understanding of the core principles and topics of biochemistry and their experimental basis. <p>Course Zoology Developmental Biology</p> <ol style="list-style-type: none"> The students will understand the process by which the organisms grow and develop. To give a basic understanding of the process that give rise to tissues, organs and anatomy. Students can understand the genetic control of cell growth, differentiation and morphogenesis. <p>Genetics</p> <ol style="list-style-type: none"> Students will learn the basic principles of Inheritance at molecular, cellular and organismal level. Students will understand casual
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			<p>relationship between molecules/cell level phenomena and organism level pattern of heredity.</p> <ol style="list-style-type: none"> Students will test their mastery of genetics by applying this knowledge in a variety of problem solving situations. <p><i>Medical Zoology and Medical Laboratory Technology</i></p> <ol style="list-style-type: none"> Students can develop skills of scientific inquiry to design and carry out scientific investigation and evaluate scientific evidence to draw conclusions. They will develop inquiring minds and curiosity about science and the natural world. The students will be able to explain the process of organic evolution, its principles and mechanisms. The students will understand the proper procedure for collection, safe handling and analysis of biological specimens/materials by performing laboratory testing with accuracy. Students will learn proper laboratory techniques i.e. how to operate equipments properly and their maintenance. The students will be able to utilize scientific principles. For example Bacteriology, Hematology, Histopathology and Biochemistry. <p><u>Course Botony</u></p> <p><i>Plant Physiology</i></p> <ol style="list-style-type: none"> To impart knowledge to the students about plant-water relations, mineral nutrition, transport of organic substances. To impart knowledge about photosynthesis, Respiration, Nitrogen metabolism & Lipids. <p><i>Plant Growth, Development and Biotechnology</i></p> <ol style="list-style-type: none"> To acquaint the students about the growth, plant hormones, photo-morphogenesis, photo-periodism, and Physiology of seed dormancy and plant movements. To impart knowledge about the basic concept of plant tissue, culture, totipotency, micro-propagation, plant breeding and molecular farming. <p><i>Plant Ecology</i></p> <p>To impart knowledge about the different levels of organization involved in the formation of biosphere including individual species, population, community & Ecosystem.</p> <p>Students were be able to predict how human activities may alter the effect of biotic and abiotic forces.</p> <p><i>Plant Utilization</i></p> <ol style="list-style-type: none"> This course is specially designed to
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			<p>supplement & enhance the understanding of students about different dimensions of plant identification as a resource for self sustenance their domestication, commercialization based on the need and induction of modification using modern techniques.</p> <p>2. To impart knowledge about the medicinal plants useful in treating various ailments and their bioactive agents.</p>
		<p>For all graduation courses under Sem-IV</p> <p>For all graduation courses under Sem-II</p>	<p><i>Environment and Road Safety Awareness</i></p> <ol style="list-style-type: none"> 1. To create an awareness among the students on Environmental problems and conservations. 2. To improve the quality of Environment 3. To conserve natural resources and existing natural environment and when possible to repair damage and reverse trends. 4. One of the most glaring problems which the world faces today is the Environmental pollution. 5. Man has exploited nature accessibly at the cost of Environment. 6. There is an immediate need to make students aware about Environmental degradation. <p>Drug Abuse Problem, Management and Prevention</p> <ol style="list-style-type: none"> 1. To identify the biological, Environmental, Behavioral and social causes and consequences of drug use and addiction across the lifespan. 2. To develop new and improved strategies to prevent drug use and its consequences. 3. To develop new and improved treatments to help people with substance use disorders to achieve and maintain a meaningful and sustained recovery. 4. To increase the public health impact of NIDA research programmes.
	M.Com	<p>The main objective of M.Com is to offer quality education in the field of Commerce at a higher level</p> <p>The department of commerce also has a goal of facilitating its students in pursuing research work in the latest and upcoming trends of study in commerce.</p>	<p>M.Com-I</p> <p><i>Research Methodology and Statistical Techniques</i></p> <ol style="list-style-type: none"> 1. This subject helps the students know about research and its importance. 2. To make the students capable of understanding census survey, sampling, data collection, analysis to various tests and interpretation thereof. 3. To make student know about various report writing techniques. <p><i>Management concepts & Organizational Behavior</i></p> <ol style="list-style-type: none"> 1. The objectives of this lesson are to enable

			<p>to define management; to describe the nature and scope of management; to know the difference between management and administration; to understand various levels of management; and to describe the various skills that are necessary for successful managers.</p> <p>2. The main objective of Organizational Behavior is to understand the human interactions in an organization, find what is driving it and influence it for getting better results in attaining business goals.</p> <p><i>Accounting for Managerial Decisions</i></p> <p>1. The objectives of this course is to enable students to acquire sound knowledge of concepts, methods and techniques of management accounting and to make the students develop competence with their usage in managerial decision making and control.</p> <p><i>Business Economics</i></p> <p>1. To expose students to basic micro economic concepts.</p> <p>2. To apply economics analysis in formulation of business policies</p> <p>3. To use economic reasoning to problems of business</p> <p><i>Financial Management</i></p> <p>16. Profit Maximization</p> <p>17. Wealth Maximization</p> <p>18. Proper estimation of total financial requirements</p> <p>19. Proper mobilization</p> <p>20. Proper Utilization of finance</p> <p>21. Maintaining proper cash flow</p> <p>22. Survival of company</p> <p>23. Creating reserves</p> <p>24. Proper coordination</p> <p>25. Create goodwill</p> <p>26. Increase efficiency</p> <p>27. Financial discipline</p> <p>28. Reduce cost of capital</p> <p>29. Reduce operating Risks</p> <p>30. Prepare capital Structure</p> <p><i>Advanced Accounting</i></p> <p>1. The main objective behind this is to demonstrate an appropriate mastery of the knowledge, skills and tools of Financial accounting principles and Managerial accounting principles.</p> <p><i>Financial Institution & Markets</i></p> <p>1. To impart the knowledge regarding financial system and working of financial markets and various financial institutions of India.</p>
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			<p>Business Environment</p> <p>1. The main objective of paper is to throw light on different kinds of environment like legal, environmental or economic etc so that impact of them on business can be assessed.</p> <p>E-Commerce</p> <p>E-commerce means business over internet, in the most layman of terms.</p> <p>1. Reach out to a larger audience - internet access is becoming so mainstream now that your product/service can reach almost everyone on the planet with a internet-enabled device.</p> <p>2. Your virtual shop remains open and operational 24x7 even if you/your staff are not working- this might not be wholly true if your product is a service-which requires immediate human-intervention</p> <p>3. You need not maintain the whole stock of products - again this varies for different business models and will work greatly if you have a good supplier who does not defaults on supplies and a good shipping partner/team who work in sync for delivery</p> <p>4. You build your brand more quickly - as more people will know and talk and post and blog about you on social networks.</p> <p>5. Once your brand is build you can diversify easily and also pull out of a certain segment if that does not works out for you with minimal losses - typical example will be Flipkart's music(tunes) store which closed off even being a great initiative.</p> <p>6. For most part; setting up a website and maintaining it is lots cheaper given the plethora of hosting services available.</p> <p>Seminar</p>
			<p>M.Com-II</p> <p>Contemporary Auditing</p> <p>1. To equip students with knowledge and understanding of Audit process, Procedures of auditing and role played by an auditor and standards followed in audit process.</p> <p>Corporate Legal Framework</p> <p>1. To impart the knowledge about latest provisions of companies act and to give knowledge of the business legislations along with the various case laws.</p>

			<p>Marketing Management</p> <ol style="list-style-type: none"> 1. To provide the knowledge of various marketing techniques and concepts to develop their skills to have deeper insight into the subject. <p>Management of Financial Services</p> <ol style="list-style-type: none"> 1. To make students aware with the developments in the areas of financial services and developing their skills to manage financial services. 2. To give information about the regulation of various financial services. <p>Human Resource Management</p> <ol style="list-style-type: none"> 1. To provide the knowledge of various concepts of HRM, Human Resource Planning, Development and compensational and reward system. 2. To provide the students the knowledge about Human Resources and their significance <p>Banking and Insurance Services</p> <ol style="list-style-type: none"> 1. To make students aware about the operations, functions and management of Banking and Insurance Sector. 2. To enable students to know about the emerging trends in Banking and Insurance Sector. <p>Corporate Tax Planning</p> <ol style="list-style-type: none"> 1. The objective of teaching this subject is to make the students learn about tax planning and its contribution to Indian Economy. 2. To help students in understanding how tax evasion is reining our nation. 3. To acquaint the student with various provision useful in tax planning while starting a new business, capital structure decision making and dividend policy decisions. <p>Fundamentals of investment</p> <ol style="list-style-type: none"> 1. The main objectives behind to teach this subject provide knowledge about various investment scheme as well as safety investment measures. <p>International Finance</p> <ol style="list-style-type: none"> 1. To impart knowledge about the concepts of functions and practices of International Finance. 2. To give knowledge about functioning of foreign exchange markets and determination of exchange rates. <p>Direct tax Laws</p> <ol style="list-style-type: none"> 1. The objective of teaching this subject is to make the students aware of various provisions regarding computation of total income of an assesses (i.e. individual, H.U.F., Firm, Company and others) and
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			tax thereon. In this way, they can calculate tax on their income in future and need not depend on CA. for tax calculation purpose.
	MA (English)	The main objective is to empower students by honing their communication skills so that they can meet the requirements of employment and face the challenges of modern society with ease.	<p>MA (English) – I</p> <p><i>Medieval and Renaissance Poetry</i></p> <ol style="list-style-type: none"> 1. To provide the knowledge of the conditions prevalent in the Middle Ages. 2. To familiarize the students with the literary movements of the ages. 3. To provide better understanding of the emotional and aesthetic senses. <p><i>Literary criticism</i></p> <ol style="list-style-type: none"> 1. To prepare the students to critically analyze the literary works. 2. Contributes in the maintenance of high standards of literature. 3. To help the learners in the interpretation of literary works. <p><i>Poetry from Neo-classical to Victorian Age</i></p> <ol style="list-style-type: none"> 1. To develop the imaginative skills. 2. To provide a chance to expand the knowledge of vocabulary and to work with different rhythms and rhyme patterns. 3. To provide a better understanding of the emotional senses. 4. To enrich the Vocabulary <p><i>Phonetics and Phonology</i></p> <ol style="list-style-type: none"> 7. To provide enough information on the theoretical underpinnings of English pronunciation. 8. To improve the accent and fluency of language. 9. To provide different aspects and parts of English language pronunciation field. <p><i>Modern Drama</i></p> <ol style="list-style-type: none"> 1. This course helps them to understand the various differences between conventional drama & modern drama. 2. This course enables them to find that Elizabethan drama was much more audience interactive. While on the other side Modern drama is enclosed within a frame like moving picture. 3. Learners come to know that In Modern drama performances are enhanced by hitechnology. 4. Learners have more details to understand and explore their knowledge. They can enhance their creativity by using all these differences aspects of this course.

			<p><i>Classical and Elizabethan Drama</i></p> <ol style="list-style-type: none"> 1. This course helps the literature students to understand What exactly is Elizabethan Drama? It guides them to know about Shakespeare’s Plays, a theatre style. 2. This course is associated with periods in history which includes Christopher Macloure, Ben Johnson, etc. 3. This course is helpful for the earners to understand many literary or dramatic techniques. 4. It motivates them to understand how audience feels empowered knowing more about the events on stage than most of the characters do. 5. It also encourages students to understand movements and gestures and their particulars meaning. It also motivates them to explore their inner potential like, dialogue writing, acting etc. <p><i>Rise of the novel</i></p> <ol style="list-style-type: none"> 1. To Introduce to this genre ‘novel’ and other genres i.e epistolary novel 2. To get familiar to the leading writers of this period male as well as female i.e Daniel Defoe and Eliza Haywood respectively. 3. To find out answers to all the aspects of the novel, i.e., the ‘what’, ‘why’, ‘when’, ‘where’, and ‘how’ of the novel. 4. The economic and intellectual progress the period. 5. To develop interest in reading. 6. To relate with the characters; were also made references to particular times of the year of the day. 7. To initiate critical thinking <p><i>Nineteenth century fiction</i></p> <ol style="list-style-type: none"> 1. The development of fiction in England from the close of the eighteenth century. 2. To explore the literature written between 1815 and 1900 which is known as Victorian Age. 3. When being introduced to the texts (Frankenstein, Jude the obscure, Madame Bovary and notes from underground) that reflect on the aspects of instruction, entertainment, society, class and gender as perceived in the nineteenth century England. 4. To initiate critical thinking on the following topics
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		<p>MA (English) – II</p> <p><i>Literature and Postcoloniality</i></p> <ol style="list-style-type: none"> 1. To impart the knowledge of the socio-economic conditions of the post-colonial era. 2. To enable the students to understand the problems encountered by the people of post –colonial era. 3. To provide a better perspective to the aspects of feminism, nationalism. <p><i>Language and Linguistics</i></p> <ol style="list-style-type: none"> 1. To improve the ability to communicate. 2. To impart the theoretical knowledge of the language related terms. 3. To make the students familiar with the other languages along with the chosen language. 4. To enhance the knowledge of the relatedness of various languages. <p><i>American Literature</i></p> <ol style="list-style-type: none"> 1. To instruct regarding socio-political conditions of the country. 2. Enhance their knowledge about various literary forms of the literature. 3. To understand the culture of the country. 4. Enhance the capacity to compare and analyze the literature. 5. Understand how culture plays an important role in literature. <p><i>20th Century Poetry and Fiction</i></p> <ol style="list-style-type: none"> 1. Educate them about major literary movements of 20th century and their major exponents. 2. Philosophies like absurdism edify the critical thinking of students. 3. Soldier poetry acquaintance the students with harsh reality of war. 4. Students are made conscious of moral and spiritual degradation of modern society. <p><i>Literature and Modernity</i></p> <ol style="list-style-type: none"> 1. Help the learners to examine literature from multiple eras, cultures genres and their critical understanding. 2. To enhance their ability to express themselves, comprehend verbally and in writing. 3. It enhances the research skills which enable them to expand from variety of perspectives, their own reading of
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			<p>literature and understanding of language.</p> <ol style="list-style-type: none"> The main aim of this course is to enable the students to read well, to write well and to think well. <p><i>Literary and Cultural Theory</i></p> <ol style="list-style-type: none"> These courses help the learners to examine literature from multiple eras, cultures, genres and their critical understanding. It also helps them to enhance their ability to express themselves clearly and comprehensively, orally and in writing. It enhances their research skills which enables them to expand from a variety of perspectives their over reading of literature and understanding of language. The main goal of this course is enable the students to read well, to write well, and to think well. <p><i>Literature and Gender</i></p> <ol style="list-style-type: none"> It combines an introduction to and an anthology of literary texts which provides the relevance of gender issues to the study of literature. The contributors to this subject draw on feminist ideas and discuss the importance of feminist scholarship in developing an approach to literature centre around the gender. <p><i>Indian writing in English</i></p> <ol style="list-style-type: none"> The paper intends to provide a comprehensive understanding of fiction written in English in India since its emergence. To introduce students to major movements and figures of Indian literature in English through the study of selected texts.
MA (Punjabi)	<p>ਐਮਏ ਪੰਜਾਬੀ ਵੱਖ-ਵੱਖ ਸ਼ੈਲੀਆਂ ਦੇ ਡੂੰਘਾਈ ਨਾਲ ਅਧਿਐਨ ਕਰਨ ਅਤੇ ਵੱਖ ਵੱਖ ਯੁੱਗਾਂ ਤੋਂ ਸਾਹਿਤ ਨੂੰ ਰੂਪ ਦੇਣ ਵਾਲੇ ਕਾਰਕਾਂ ਉੱਤੇ ਧਿਆਨ ਕੇਂਦ੍ਰਤ ਕਰਦੀ ਹੈ। ਕੋਰਸ ਪੂਰਾ ਹੋਣ 'ਤੇ, ਇਕ ਵਿਦਿਆਰਥੀ ਤੋਂ ਉਮੀਦ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਕਿ ਉਹ ਇਸ ਦੇ ਇਤਿਹਾਸਕ, ਸਭਿਆਚਾਰਕ, ਰਾਜਨੀਤਿਕ ਅਤੇ</p>	<p>ਐਮਏ ਪੰਜਾਬੀ ਵੱਖ-ਵੱਖ ਸ਼ੈਲੀਆਂ ਦੇ ਡੂੰਘਾਈ ਨਾਲ ਅਧਿਐਨ ਕਰਨ ਅਤੇ ਵੱਖ ਵੱਖ ਯੁੱਗਾਂ ਤੋਂ ਸਾਹਿਤ ਨੂੰ ਰੂਪ ਦੇਣ ਵਾਲੇ ਕਾਰਕਾਂ ਉੱਤੇ ਧਿਆਨ ਕੇਂਦ੍ਰਤ ਕਰਦੀ ਹੈ। ਕੋਰਸ ਪੂਰਾ ਹੋਣ 'ਤੇ, ਇਕ ਵਿਦਿਆਰਥੀ ਤੋਂ ਉਮੀਦ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਕਿ ਉਹ ਇਸ ਦੇ ਇਤਿਹਾਸਕ, ਸਭਿਆਚਾਰਕ, ਰਾਜਨੀਤਿਕ ਅਤੇ</p>	<p>MA (Punjabi) – I ਪੇਪਰ-1 (ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਇਤਿਹਾਸਕਾਰੀ)</p> <ul style="list-style-type: none"> ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। ਆਦਿਕਾਲ ਤੇ ਮੱਧਕਾਲ ਦੀ ਰਾਜਸੀ, ਸਮਾਜਿਕ, ਸਭਿਆਚਾਰਕ, ਭਾਸ਼ਾਈ ਅਤੇ ਸਾਹਿਤਕ ਪੜਚੋਲ ਕਰਨੀ। ਸਾਹਿਤ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਵੰਨਗੀਆਂ ਅਤੇ ਇਤਿਹਾਸਕ ਪ੍ਰਵਿਰਤੀਆਂ ਤੇ ਚਾਨਣਾ ਪਾਉਣਾ। ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦੀ ਸਾਹਿਤਕ, ਸਭਿਆਚਾਰਕ ਅਤੇ ਇਤਿਹਾਸਕ ਪੱਖ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।

		<p>ਦਾਰਸ਼ਨਿਕ ਪ੍ਰਸੰਗ ਵਿਚ ਸਾਹਿਤ ਦੇ ਕਿਸੇ ਕੰਮ ਦੀ ਮੁਹਾਰਤ ਨਾਲ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰ ਸਕੇ।</p> <p>ਇਹ ਉਨ੍ਹਾਂ ਉਮੀਦਵਾਰਾਂ ਲਈ ਇੱਕ ਤਰਜੀਹੀ ਕੋਰਸ ਹੈ ਜੋ ਰਚਨਾਤਮਕ ਖੇਤਰ ਵਿੱਚ ਆਪਣੇ ਕਰੀਅਰ ਨੂੰ ਬਣਾਉਣ ਦੀ ਇੱਛਾ ਰੱਖਦੇ ਹਨ ਅਤੇ ਜੋ ਵੱਖ ਵੱਖ ਸਾਹਿਤ ਸ਼ੈਲੀਆਂ ਜਾਂ ਸ਼ੈਲੀਆਂ ਬਾਰੇ ਪੜ੍ਹਨ ਦਾ ਅਨੰਦ ਲੈਂਦੇ ਹਨ।</p>	<ul style="list-style-type: none"> • ਸੋ ਉਪਰੋਕਤ ਵਿਸ਼ਿਆਂ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਨਾਲ ਜੋੜਨਾ ਹੈ। <p>ਪੇਪਰ- ਦੂਸਰਾ (ਪੰਜਾਬੀ ਗਲਪ)</p> <ul style="list-style-type: none"> • ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਸਿਧਾਂਤ ਤੇ ਵਿਸਥਾਰਪੂਰਵਕ ਚਾਨਣਾ ਪਾਉਣਾ। • ਪੰਜਾਬੀ ਗਲਪ ਦੇ ਵਿਸ਼ੇਸ਼ ਰੂਪ ਨਾਵਲ ਨੂੰ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਰਾਹੀਂ ਨਾਵਲਕਾਰਾਂ ਦੇ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। • ਵਿਦਿਆਰਥਣਾਂ ਨੂੰ ਵੱਖ-ਵੱਖ ਨਾਵਲਾਂ ਵਿੱਚ ਪੇਸ਼ ਹੋਈਆਂ ਧਾਰਮਿਕ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਰਾਜਸੀ ਤੇ ਸੱਭਿਆਚਾਰਕ ਪ੍ਰਸਥਿਤੀਆਂ ਤੋਂ ਜਾਗਰੂਕ ਕਰਨਾ। <p>ਪੇਪਰ ਤੀਸਰਾ (ਪੰਜਾਬੀ ਨਾਟਕ)</p> <ul style="list-style-type: none"> • ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਸਾਹਿਤਕ ਵੰਨਗੀ ਨਾਟਕ ਹੀ ਵਿਦਿਆਰਥਣਾਂ ਨੂੰ ਪੰਜਾਬੀ ਰੰਗਮੰਟ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। • ਵਿਦਿਆਰਥਣਾਂ ਨੂੰ ਨਾਟਕ ਕਲਾ ਅਤੇ ਉਸਦੀ ਪੇਸ਼ਕਾਰੀ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਉਣਾ। • ਨਾਟਕ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਸਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। • ਉਪਰੋਕਤ ਜਾਣਕਾਰੀ ਤੋਂ ਇਲਾਵਾ ਨਾਟਕ ਦੇ ਕੇਤਰ ਵਿੱਚ ਆਈਆਂ ਵੱਖ-ਵੱਖ ਪ੍ਰਵਿਤੀਆਂ ਅਤੇ ਤਬਦੀਲੀਆਂ ਬਾਰੇ ਜਾਗਰੂਕ ਕਰਨਾ। <p>ਪੇਪਰ ਚੌਥਾ (ਕਾਵਿ ਸਿਧਾਂਤ)</p> <ul style="list-style-type: none"> • ਪੰਜਾਬੀ ਕਾਵਿ-ਧਰਾਵਾਂ ਦੇ ਵਿਚਾਰਧਾਰਣੀ ਆਧਾਰ ਰਾਹੀਂ ਕਾਵਿ ਦੇ ਵੱਖ-ਵੱਖ ਪਹਿਲੂਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ। • ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਂਦੇ ਹੋਏ ਵਿਦਿਆਰਥਣਾਂ ਵਿਚ ਕਾਵਿ-ਚੇਤਨਾ ਪੈਦਾ ਕਰਨਾ। • ਪੰਜਾਬੀ ਕਾਵਿ ਦੇ ਪਛਾਣ-ਚਿੰਨ੍ਹ, ਬਿੰਬ ਵਿਧਾਨ, ਕਾਵਿ-ਕਲਾਂ ਪੁਨਰ ਚਿੰਤਨ, ਨਵਚੇਤਨਾ ਅਤੇ ਕਾਵਿ-ਮੁਲਾਕਣ ਦੀ ਸਮੀਖਿਆ ਕਰਦਿਆਂ ਪੰਜਾਬੀ ਕਾਵਿ ਜਗਤ ਦੀ ਵਿਸਥਾਰਪੂਰਵਕ ਜਾਣਕਾਰੀ ਦੇਣਾ। • ਪੁਰਾਤਨ ਕਾਲ ਦੇ ਕਵੀਆਂ ਤੋਂ ਲੈਕੇ ਸਮਕਾਲੀ ਕਵੀਆਂ ਦੀ ਕਾਵਿ-ਚੇਤਨਾ ਤੋਂ ਜਾਣੂ
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			<p>ਕਰਵਾਉਣਾ।</p> <p>ਪੇਪਰ-ਪੰਜਵਾਂ (ਪੰਜਾਬੀ ਆਲੋਚਨਾ)</p> <ul style="list-style-type: none"> • ਭਾਰਤੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਰਾਹੀਂ ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਦੇ ਸਿਧਾਂਤ, ਆਰੰਭ, ਵਿਕਾਸ, ਅਤੇ ਪੰਜਾਬੀ ਮੈਟਾ ਆਲੋਚਨਾ ਦੀ ਜਾਣਕਾਰੀ ਦੇਣਾ। • ਭਾਰਤੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਦੇ ਵਿਸ਼ੇ, ਪ੍ਰਯੋਜਨ, ਹੇਤੂ, ਭੇਦ, ਗੁਣਾਂ ਅਤੇ ਦੇਸ਼ਾ ਬਾਰੇ ਵਿਦਿਆਰਥਣਾਂ ਨੂੰ ਜਾਣੂ ਕਰਵਾਉਣਾ। • ਕਾਵਿ ਸਿਧਾਂਤ: ਰਸ, ਵਕ੍ਰੇਕਤੀ, ਆਲੰਕਾਰ, ਰੀਤੀ, ਧੁਨੀ ਅਤੇ ਔਚਿਤਯ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ। • ਕਾਵਿ ਦੇ ਪੱਛਮੀ ਸਿਧਾਂਤ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ।
			<p>MA (Punjabi) – II</p> <p>ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ</p> <ol style="list-style-type: none"> 1. ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਪੇਪਰ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਬੌਧਿਕ ਵਿਕਾਸ ਕਰਨਾ ਅਤੇ ਵਿਆਕਰਨ ਦੀਆਂ ਬਾਰੀਕੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 2. ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਬਾਰੇ ਦਿੱਤੀ ਪੱਛਮੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨੀਆਂ ਦੀ ਦੇਣ ਤੋਂ ਵੀ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। 3. ਕੁੱਲ ਮਿਲਾਕੇ ਇਸ ਪੇਪਰ ਦਾ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਬਾਰੇ ਸਮੁੱਚੀ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ ਕਿ ਭਾਸ਼ਾ ਕਿਹੜੇ ਪੜਾਵਾਂ ਵਿੱਚੋਂ ਨਿਕਲ ਕੇ ਆਧੁਨਿਕ ਸਮੇਂ ਵਿੱਚ ਪਹੁੰਚੀ ਹੈ। <p>ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ</p> <ol style="list-style-type: none"> 1. ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਪੇਪਰ ਦਾ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ, ਸ਼ਬਦਾਂ ਦੀ ਅੰਦਰੂਨੀ ਤੇ ਬਾਹਰੀ ਬਣਤਰ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਲਿੱਪੀ ਦੇ ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ। <p>ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ</p> <ol style="list-style-type: none"> 1. ਇਸ ਪੇਪਰ ਵਿੱਚ ਵਾਰਤਕ ਸਿਧਾਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 2. ਵਾਰਤਕ ਦੇ ਰੂਪਾਂ ਪੁਰਾਤਨ ਜਨਮ ਸਾਖੀ,

			<p>ਵਾਰਤਕ ਵਿਰਸਾ, ਪੰਜਾਬੀ ਬਾਤਚੀਤ ਤੇ ਸਾਵੀ ਪੱਧਰੀ ਜ਼ਿੰਦਗੀ ਆਦਿ ਪੁਸਤਕਾਂ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਾਰਤਕ ਦੀ ਡੂੰਘੇਰੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ।</p> <p>3. ਇਸ ਪੇਪਰ ਵਿੱਚ ਸਾਥੀਆਂ, ਨਿਬੰਧਾਂ, ਲੇਖਾਂ ਆਦਿ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜੀਵਨ ਦੇ ਆਦਿ ਕਾਲ ਤੋਂ ਲੈ ਕੇ ਆਧੁਨਿਕ ਕਾਲ ਤੱਕ ਫੈਲੇ ਵਾਰਤਕ ਰੂਪਾਂ ਦੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ।</p> <p>ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ</p> <p>1. ਇਸ ਪੇਪਰ ਦੁਆਰਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਾਰਤਕ ਸਿਧਾਂਤ ਤੇ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਂਦਾ ਹੈ।</p> <p>2. ਇਸ ਵਿੱਚ ਵਾਰਤਕ ਦੇ ਆਧੁਨਿਕ ਰੂਪਾਂ ਜੀਵਨੀ, ਨਿਬੰਧਾਂ, ਸ਼ਫਰਨਾਮੇ ਤੇ ਰੇਖਾ-ਚਿੱਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ।</p> <p>3. ਉਪਰੋਕਤ ਉਦੇਸ਼ ਤੋਂ ਇਲਾਵਾ ਇਸ ਪੇਪਰ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਦਿ ਕਾਲ, ਮੱਧਕਾਲ ਅਤੇ ਆਧੁਨਿਕ ਕਾਲ ਦੇ ਸਾਹਿਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ ਹੈ।</p> <p>ਕਿੱਸਾ ਕਾਵਿ</p> <p>1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਮੱਧਕਾਲੀ 'ਕਿੱਸਾ ਕਾਵਿ' ਦੇ ਸਿਧਾਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣੀ।</p> <p>2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੱਖ-ਵੱਖ ਕਿੱਸਾਕਾਰਾ ਦੁਆਰਾ ਰਚਿਤ ਕਿੱਸਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣੀ ਜਿਵੇਂ-ਮਿਰਜਾ ਸਾਹਿਬਾ, ਹੀਰ-ਰਾਂਝਾ, ਪੂਰਨ-ਭਗਤ, ਸੱਸੀ।</p> <p>3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕਿੱਸਿਆਂ ਰਾਹੀਂ ਸਮਾਜ ਦੀਆਂ ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਧਾਰਮਿਕ ਆਦਿ ਸਮੱਸਿਆਵਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ। ਉਪਰੋਕਤ ਉਦੇਸ਼ਾਂ ਤੋਂ ਇਲਾਵਾਂ ਪੰਜਾਬੀ ਪੜ੍ਹਾਉਣ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਪਣੀ ਮਾਤ-ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਨਾਲ ਜੋੜੀ ਰੱਖਣਾ ਅਤੇ ਇਸਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ ਹੈ।</p>
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			<p>Sabhyachar and Punjabi Sabhyachar</p> <ol style="list-style-type: none"> 1. ਸਭਿਆਚਾਰ ਦੇ ਸਿਧਾਤਕ ਪੱਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ ਹੈ। 2. ਸਭਿਆਚਾਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਲੱਛਣ 3. ਸਭਿਆਚਾਰਕ ਰੂਪਾਂਤਰਣ 4. ਲੋਕ ਪ੍ਰਿਯ ਸਭਿਆਚਾਰ 5. ਸਭਿਆਚਾਰ ਅਤੇ ਹੋਰ ਖੇਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ ਹੈ ਜਿਵੇਂ-ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਤੇ ਸਾਹਿਤ, ਸਭਿਆਚਾਰਕ ਅਤੇ ਮੀਡੀਆ , ਸਭਿਆਚਾਰ ਤੇ ਭਾਸ਼ਾ, ਸਭਿਆਚਾਰ ਅਤੇ ਭੂਗੋਲ 6. ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ ਵਾਰੇ ਵੀ ਦਸਿਆ ਜਾਂਦਾ ਹੈ। 7. ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀ ਭੂਗੋਲਿਕ ਰੂਪ-ਰੇਖਾ, ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਮੂਲ ਸੋਮੇ- ਇਤਿਹਾਸਕ ਅਤੇ ਅਧਿਐਨ ਸਰੋਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ। 8. ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀ ਬਣਤਰ- ਪਹਿਰਾਵਾਂ, ਵਿਆਹ, ਰਿਸ਼ਤਾ ਨਾਤਾ, ਪੰਜਾਬ, ਪੰਜਾਬੀ, ਪੰਜਾਬੀਆਂ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿਚ ਚਾਣਨਾ ਪਾਇਆ ਜਾਂਦਾ ਹੈ।
	MA (Hindi)		<p>MA (Hindi) – I <u>lksij ,d&e/;dkyhu fgUnh dkO;</u></p> <ol style="list-style-type: none"> 1- e/;dkyhu dkO; ds ek;/e ls Nk=ksa dks vkfndkyhu dfo;ksa vCnqyjgeku] pUncjnkbZ] fo kifr] dchjnk] vkSj tk;lh vkfn dfo;ksa ds jpukvksa ls ifjfr djokukA 2- e/;dkyhu dkO; dh izo`fr;ksa ls ifjfr djokukA <p><u>lksij nks % fgUnh Hkk'kk% miHko vksj fodkl</u></p> <ol style="list-style-type: none"> 1- fgUnh Hkk'kk i= ds }kjk Nk=ksa dks izphu Hkkjrh; Hkk'kkvksa ls voxr djokukA 2- e/;dkyhu Hkkjrh; Hkk'kkvksa ds fodkl dh foLr`r tkudkj nsuka 3- fgUnh ds Hkkf'kd lcwr fLFkfr ls ifjfr djokukA <p><u>isij rhu% fgUnh lkfgR; dk bfrgk</u></p> <ol style="list-style-type: none"> 1- fgUnh lkfgR; dk bfrgk ds ek;/e ls

			<p>Nk=ksa dks fgUnh fgUnh lkfgR; ys[ku dh ijEijk dk foLrkj ls ifjp; djokukA</p> <p>2- fgUnh lkfgR; ds fofHkUu dkyksa vkfn dky] HkfDr dky vkSj jhfr dky izeq[k dkO; /kkjvkksa ls ifjfpr djokukA</p> <p><u>isij pkj% ¼fodYi 3½ fgUnh i=dkfjrk</u></p> <p>1- fgUnh i=dkfjrk }kjk i=dkfjrk ds bfrgkl dh Kkudkj iznku djukA</p> <p>2- i=dkj ds x`.kksa lekpkj i= ds egRo] Lo:lk vkSj nkf;Ro ls Nk=ksa dks ifjfpr djokukA</p> <p><u>lksij ,d&e/;dkyhu fgUnh dkO;&2</u></p> <p>1- e;/dkyhu fgUnh dkO; ds }kjk Nk=ksa dks dfo rpylh] lwjnkf fcgkj vkSj xq: xksfcan flag th dh dkO; dyk dk Kku iznku djokukA</p> <p>2- e;/dkyhu dkO; dh izo`fr;ksa ls Nk=ksa dks voxr djokukA</p> <p><u>lksij nks&Hkk'kk foKku</u></p> <p>1- Hkk'kk foKku ds }kjk Nk=ksa dks Hkk'kk dk Kku iznku djokuk fd Hkk'kk dh mRif`Uk fdl izdkj gqbZ vkSj fdl izdkj mldk fodkl gqvka</p> <p>2- Nk=ksa dks Hkk'kkvksa ds ikfjokfjd oxhZdj.k vkSj mudh fo"ks'krkvksa for`r Kkudkj nsuk rkfd Nk=ksa dks Hkk'kk dk iw.kZ Kku fey ldsA</p> <p><u>lksij rhu&fgUnh lkfgR; dk bfrgkl ¼vk/kqfud dky½</u></p> <p>1- fgUnh lkfgR; ds bfrgkl ds ek;/e ls Nk=ksa dks fgUnh vk/kqfud dky ls ifjfpr djokukA</p> <p>2- vk/kqfud dky ds izeq[k okn&Nk;kokn] izxfrokn] iz;ksxokn] ubZ dfork ledkyhu dfork vkfn dh foLr`r tkudkj iznku djukA</p> <p><u>lksij pkj&vuqokn dyk dk IS)kafrd i{k</u></p> <p>1- vuqokn dyk ds ek;/e ls Nk=ksa dks nwljh Hkk'kvksa ds lkfgR; dh tkudkj izklr djus esa fdl izdkj lgk;rk fey ldrh gS bldk Kku iznku djokukA</p>
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			<p>2- fons"kh Hkk'kkvksa ds lkfgR; dk Kku izklr djus esa vuqokn dyk fdl izdkj lgk;d gks ldrh gS Nk=ksa dks ifjfpr djokukA</p>
			<p><u>Iksij ,d&vk/kqfud fgUnh dkO;&1</u></p> <p>1- vk/kqfud fgUnh dkO; ds }kjk Nk=ksa dks dfo efFkyh"kj.k xqlr] t; "kadj izlkn] lqfe=kuanu iar] lq;Zdkar f=ikBh] fujkyk vkSj egknsdh oekZ dh dkO; dyk ls ifjfpr djokukA</p> <p>2- vk/kqfud dkO; dh izeq[k fo"ks'krkvksa ls Nk=ksa dks voxr djokdj mUgsa dkO; Kku iznku djokukA</p> <p>Iksij nwljk&Hkkjrh; dkO; "kkL=</p> <p>1- Nk=ksa dks dkO; dk Kku djokuk] dkO; ds Hksnksa dh foLr`r tkudkj iznku djokukA</p> <p>2- dkO; laiznk;& vyadkj] jhfr] jll /ofu vkSj vkSfpR; dk ifjp; djokuk</p> <p>Iksij rhljk& fgUnh ukVd vkSj fuca/k</p> <p>1- t;"kadj izlkn ds ukVd ^Ldanxqlr^ ds ek;/e ls xqlr jkt oa"k ds "kklu uhfr vkSj lkejkT; ds bfrgkl ls Nk=ksa dks voxr djokuk ftlls Nk=ksa dh vfHk:fp esa o`f) gksxhA</p> <p>2- ^vk/ks v/kwjs^ miU;kl ds ek;/e ls miU;kl esa fpf=r ik=ksa }kjk ;FkkZFkoknh n`f`Vdks.k ds fodkl esa lgk;rk iznku djokukA</p> <p>3- ^fparke.kh^ fucU/k ds }kjk fucU/k dyk dk Kku djokukA</p> <p>Iksij pkj &fgUnh vykspuk vkSj vkykspd</p> <p>1- fgUnh vkykspuk ds ek;/e ls Nk=kvksa esa vkykspukRed n`Vhdks.k dk fodkl gksxkA</p> <p>2- Hkkjrsanq;qx ls fjosnh ;qx ds vkykspdks ds n`Vhdks.k vkSj muds erksa ds }kjk Nk=ksa dks n`Vhdks.k fo"kkky gksxkA</p> <p>,e,-&Hkkx igyk ¼leSLVj&pkSFkk½</p>

			<p>Iksij ,d&vk/kqfud fgUnh dkO;&2</p> <p>3- vk/kqfud fgUnh dkO; ds }kjk vKs;] eqfDrcks/k] /kwfey] dqekjfody tSls vk/kqfud dfo;ksa dh dkO; dyk ls Nk=ksa dks ifjfpr djokukA</p> <p>4- vk/kqfud dkO; dh izeq[k izo`fr;ksa ls fo kFkZ;ksa ds eu esa dkO; ds izfr :fp dk fodkl djukA</p> <p>Iksij nwljk&ik”pkR; dkO; “kkL=</p> <p>3- ik”pkR; dkO; “kkL= ds ek;/e ls Nk=ksa dks if’pe ds fo}kuksa ds fla}krksa vkSj fopkjksa ls ifjfpr djokuk vkSj ftl ls ubZ fopkjksa dk vkxeu gksus ls Nk=ksa ds lkfgfR;d n`fVdksV esa o`f) gksxhA</p> <p>4- fofHkUu lkfgfR;d fo/kkvksa &miU;kl] dgkuh] ukVd] fuca/k rFkk vkykspuk vkfn ds ckjs esa foLr`r tkudkj fo kFkZ;ksa dks iznku djokukA</p> <p>Iksij rhijk&iz;kstuewyd fgUnh</p> <p>4- iz;kstuewyd fgUnh i= ds }kjk Nk=ksa dks fgUnh Hkk’kk ds egRo ds ckjs esa Kku izklr gksxk fd fdl izdkj fgUnh vusd :iksa esa ekr`Hkk’kk] jk’V^a Hkk’kk] laidZ Hkk’kk] lapkj Hkk’kk rFkk dk;kZy;h Hkk’kk vkfn esa iz;qDr gks jgh gSA</p> <p>5- fgUnh dEI;wVj dh Hkk’kk Hkh cu pqdh gSA dEI;wVj esa fgUnh ds iz;ksx ds ckjs esa Nk=ksa dks voxr djokukA</p> <p>6- vuqokn dyk ds egRo ds ckjs esa crkuk fd fdl izdkj vuqokn dyk ds Kku ls nwljh Hkk’kkvksa dk lkfgR; Kku izklr djukA</p> <p>Iksij pkj &fgUnh vykspuk vkSj vkykspd</p> <p>3- fgUnh vkykspuk ds }kjk Nk=kvksa esa vkykspukRed n`fVdks.k dk fodkl gksxkA</p> <p>4- fofHkUu vkykspdks jkepanz “kqDy] uaunqykjs oktfi;h] gtkjh izlkn</p>
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			<p>f}osnh vkfn vkykspds vkSj muds n`f`Vdks.k ls Nk=ksa dks voxr djokukA</p>
	M.Sc (Maths)	<p>M.Sc. Mathematics makes sure to provide advanced research skills and provide in-depth knowledge of reasoning and problem-solving skills to the students. It incorporates the foundation of mathematical thinking and teaches both pure and applied mathematics to the core</p>	<p><u>M.Sc (Maths) – I</u></p> <p><i>Functional Analysis</i></p> <ol style="list-style-type: none"> 1. It enhances student’s research, inquiry and analytical thinking abilities. 2. It gives knowledge about normal linear spaces, banach spaces, bounded operators, principles of uniform boundedness. 3. The main emphasis is on the study of properties of bounded linear maps between topological linear spaces of various kinds. <p><i>Fundamentals of Computer Science and C Programming & Lab Training</i></p> <ol style="list-style-type: none"> 1. The major objective of C language is to provide students with understanding of code organization. 2. Ability to work with Arrays 3. Ability to handle possible errors during program execution <p><i>Topology</i></p> <ol style="list-style-type: none"> 1. To make the students learn about spaces. 2. To make students learn about connected and compact path. <p><i>Algebra</i></p> <ol style="list-style-type: none"> 1. To make students learn about Basics of groups 2. To make students learn about Normal Series. <p><i>Differential Geometry</i></p> <ol style="list-style-type: none"> 1. To make students understand the concept of curve and surface. To give them interpretation of Torsion and curvature of a surface. 2. To study the concept of normal curvature and geodesics of surface. 3. To study the concept of principle curvature in various directions and study rodrigue’s formula, euler theorem. <p><i>Complex Analysis</i></p> <ol style="list-style-type: none"> 1. Extensively understanding of algebraic and transcendental functions. 2. Enhance the ability to solve boundary value problems. 3. Students will be able to perform basic mathematical operations. 4. Enhance their calculations ability. 5. Enhance the thinking skills. <p><i>Mathematical Analyses</i></p> <ol style="list-style-type: none"> 1. This subject is basically related with league integration. 2. Real analysis is basic of today all major

			<p>mathematical methods as integration is revenue of differential.</p> <ol style="list-style-type: none"> 3. Real analyses focus on the real numbers often including positive and negative infinity to form the extended real line. 4. Real analysis is an area of analysis that studies concepts such as sequences and their limits, integration and sequences of functions. <p><i>Differential Equations</i></p> <ol style="list-style-type: none"> 1. Students will be able to distinguish between linear, non-linear, Partial & ordinary differential. 2. Express existence uniqueness of differential equations. 3. Will be able to solve first order ordinary differential equations. 4. Solves exact differential equation. 5. Convert separable & homogenous equation to exact equation by integrating factors.
			<p><u>M.Sc (Maths) – II</u></p> <p><i>Category Theory -I</i></p> <ol style="list-style-type: none"> 1. Mathematical structure and its concepts in terms of a labeled directed graph called a category, whose nodes are called objects, and whose labeled directed edges are called arrows. 2. A category has two basic properties: the ability to compose the arrows associatively, and the existence of an identity arrow for each object. 3. The language of category theory has been used to formalize concepts of other high-level abstractions such as sets, rings, and groups. Informally, category theory is a general theory of functions. <p><i>Fluid Mechanics</i></p> <ol style="list-style-type: none"> 1. To make the students learn the fundamentals of Dynamics 2. To make the students learn Lagrange Methods. <p><i>Number Theory</i></p> <ol style="list-style-type: none"> 1. To enhance the ability of mathematical thinking. 2. Students will be able to understand the basic structure and properties of integers. 3. To enable the students to prove the results involving divisibility. <p><i>Differential Manifolds</i></p> <ol style="list-style-type: none"> 1. This is followed by an introduction to basic concepts related to manifolds and their tangents and cotangents spaces and forms. 2. It deals with lie group, lie subgroup, Taylors Theorem, Immersion, Embeddings,

			<p>smooth maps.</p> <p>3. To understand implicit and inverse function theorem, vector fields.</p> <p>Theory of Linear Operator</p> <ol style="list-style-type: none"> 1. The objectives of the course are the study of the main properties of bounded operators between Banach and Hilbert spaces. 2. The basic results associated to different types of convergences in normed spaces and the spectral theorem. 3. Spectral theorem for self-adjoint compact operators. 4. Bounded operators on Hilbert spaces, inversion of operators, spectrum, adjoint of operators on a Hilbert space, compact operators, some applications of the spectral theorem 5. Functional analysis is the study of infinite-dimensional vector spaces equipped with extra structure. 6. We focus mainly on the study of Hilbert spaces- complete vector spaces equipped with an inner product- and linear maps between Hilbert spaces. <p>Commutative Algebra</p> <ol style="list-style-type: none"> 1. Commutative algebra is the branch of algebra that studies commutative rings, their ideals, and modules over such rings,. Commutative rings include polynomial rings, rings of algebraic integers. <p>Operations Research</p> <ol style="list-style-type: none"> 1. The objective of OR as a mathematical discipline is to establish theories and solve mathematical optimization problems that translate to real life decision making problems. <p>Field Theory</p> <ol style="list-style-type: none"> 1. To make students understand the concept of field extensions and study. Some special extensions viz are algebraic extensions, seperable extensions, normal extension, galois extension. 2. To study the insolvability of a quintic. 3. To make students understand about finite fields and their special results alongwith fundamental theorem on Galois theory. <p>Mathematical Methods</p> <ol style="list-style-type: none"> 1. This course teaches integral equations and variation methods. <p>Optimization Techniques</p> <ol style="list-style-type: none"> 1. The basic ideas of optimization are introduced and methods used to solve real life problems.
	M.Sc(IT)	The Master of Science in Information Technology, MSc (IT), is a	<u>M.Sc (IT) – I</u> <i>Operating system</i>

		<p>postgraduate program that has been developed to assist and encourage Bachelor's graduates to build on their undergraduate knowledge in Information Technology. Objectives of this course are :</p> <ul style="list-style-type: none"> • To provide advanced and in-depth knowledge of computer science and its applications. • To prepare Post Graduates who will achieve peer-recognition; as an individual or in a team, through demonstration of good analytical, design and implementation skills. • To enable students pursue a professional career in Information and Communication Technology in related industry, business and research. • To impact professional knowledge and practical skills to the students. 	<ol style="list-style-type: none"> 1. To aware students about operating system, its functions and types in detail. <p>RDBMs & Oracle</p> <ol style="list-style-type: none"> 1. To make students understand about how data is stored, managed, manipulated and retrieved. <p>Computer System Architecture On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basics of computer hardware and how software interacts with computer hardware. 2. Analyze and evaluate computer performance. 3. Understand how computers represent and manipulate data. 4. Understand computer arithmetic and convert between different number systems. <p>Comp. Prog. Using C & Lab Training</p> <ol style="list-style-type: none"> 1. Develop an in-depth understanding of functional, logic, and object-oriented Programming Paradigm. 2. Understand design implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing. <p>OOPs Using C++ & Lab Training This provides in-depth coverage of object-oriented programming principles and techniques using C++. Topics include classes, overloading, data abstraction, information hiding, encapsulation, inheritance, polymorphism, file processing, templates, exceptions, container classes, and low-level language features.</p> <p>Data Structures On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. To impart the basic concepts of data structures and algorithms. 2. To understand concepts about searching and sorting techniques. 3. To Understand basic concepts about stacks, queues, lists. <p>Visual Basic & Lab Training To develop front end application by using advance controls and connectivity tools to connect our web pages with backend databases.</p> <p>Information Technology</p> <ol style="list-style-type: none"> 1. The main objective of the subject is to explain various advancement in computer technology. 2. Students can get knowledge about various types
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			<p>of computers and software's.</p> <p>Mathematical Foundation of Computer Science</p> <ol style="list-style-type: none"> 1. To provide the students with several concepts and methods of graph theory, sorting and algorithms and logics. 2. To make students know how to construct mathematical models for several technical problems <p>M.Sc – IT –II / LE</p> <p>Java Programming & Lab Training</p> <ol style="list-style-type: none"> 1. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc. 2. Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc. 3. Be aware of the important topics and principles of software development. 4. Have the ability to write a computer program to solve specified problems. <p>Artificial Intelligence</p> <ol style="list-style-type: none"> 1. The objective is to present an overview of artificial intelligence (AI) principles and approaches. Develop a basic understanding of the building blocks of AI as presented in terms of intelligent agents: Search, Knowledge representation, inference, logic, and learning. <p>Computer Graphics & Lab Training</p> <p>To gain knowledge about various graphics algorithm to design modern software using animations and shading.</p> <p>Web Technology & Lab Training</p> <ol style="list-style-type: none"> 1. To learn how to create web pages (Static and dynamic) in different languages like HTML, DHTML and PHP. <p>Linux Administration & Lab Training</p> <ol style="list-style-type: none"> 1. Develop the ability to work with an operating system like Linux and to run commands and make shell programs. <p>Software Engineering</p> <ol style="list-style-type: none"> 1. How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment 2. Work as an individual and as part of a multidisciplinary team to develop and deliver quality software 3. Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. <p>Computer Networks</p> <p>On completion of this course, the students will</p>
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			<p>be able to:</p> <ol style="list-style-type: none"> 1. Describe the general principles of data communication. 2. Describe how computer networks are organized with the concept of layered approach. 3. Describe how signals are used to transfer data between nodes. 4. Implement a simple LAN with hubs, bridges and switches. 5. Describe how packets in the Internet are delivered. <p><i>Modern Information System</i></p> <ol style="list-style-type: none"> 1. Provide students with comprehensive knowledge and technical skills needed to successfully participate in and support the increasingly applied role of information technology in corporate decision making, 2. Provide the knowledge of contemporary issues related to the field of managing information systems, 3. Develop knowledge and skills required to work effectively in a profession, 4. Enhance self-confidence, ability to make proper decisions and effective communication
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