



## *Government Bilasa Girls P. G. College Bilaspur (C. G.)*

NAAC "B+"

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1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

### Curricula list

SN	Name of the course	Course code	Description	Course Learning Outcome
1.	Environmental Studies – I	AEC - I	Environmental issues: Natural Resources, Ecosystems, Biodiversity and its Conservation	<ul style="list-style-type: none"> <li>It prepares the students as leaders in addressing the complex environmental issues from a problem oriented interdisciplinary perspective.</li> <li>Creating the awareness about environmental problems among people</li> <li>Imparting basic knowledge about the environment and its allied problems</li> <li>Developing an attitude of concern for the environment</li> <li>Appreciate the ethical, cross cultural, and historical context of environmental issues.</li> </ul>
2.	Environmental Studies – II	AEC - II	Environmental Pollution, Social Issues and the Environment	
3.	Political Theory	BPOLCT 101	Ideologies related to the nature, Contemporary Ideologies, Equality and Justice	<ul style="list-style-type: none"> <li>Able to answer how politics have been used by various approaches</li> <li>Able to explain contemporary discourses on rights, liberty, equality, and justice</li> <li>Understand the state and its discourses in politics</li> <li>Explain and understand democracy differently</li> <li>Know the contemporary ideologies and their different shades of liberalism and Marxism</li> </ul>
4.	Indian Government and Politics	BPOLCT 201	Basic feature of the Indian Constitution, Composition of President, Parliament, Cabinet and Prime Minister etc., Supreme Court and Constitutional Process	<ul style="list-style-type: none"> <li>Able to explain core philosophy and ideals of Indian Constitution</li> <li>Learn and understand the Fundamental Rights.</li> <li>Can differentiate the Fundamental rights and Directive Principles of State policy</li> <li>Can Explain the structures, powers, and functions of three organs of government and their mutual relationship</li> <li>Explain the emerging trends in Indian Federalism and party system in India.</li> </ul>
5.	Introduction of Sociology	BSOCCT 101	Society, Community, Family, Kinship, Social control, Social Stratification	<ul style="list-style-type: none"> <li>Understand Society, Community, Family, Kinship, Social control, Social Stratification</li> </ul>
6.	Indian Society	BSOCCT201	Classical view about Indian Society, Basic Institution of Indian Society, Social and Family Problems	<ul style="list-style-type: none"> <li>Understand Classical view about Indian Society, Basic Institution of Indian Society, Social and Family Problems</li> </ul>
7.	Urdu Nasra - Sawaneh Khakke aur Inshaiye	BAURDU -I	Bhasha lipi, Vyakaran, Indian and western principles	<ul style="list-style-type: none"> <li>Understand Bhasha lipi, Vyakaran, Indian and western principles</li> </ul>
8.	Urdu Gazal	BAURDU -II		
9.	History of India from the beginning to 1206 AD	BHIST - 101	Political, Social, Economic, and Cultural aspects of Ancient India and Chhattisgarh	<ul style="list-style-type: none"> <li>To familiarize the students to the political, social, economic, and cultural aspects of Ancient India and Chhattisgarh.</li> <li>To prepare the students to understand the Cultural, Social, Political, Economic, and Literary Developments and changes in Ancient</li> </ul>

				<ul style="list-style-type: none"> <li>India and Chhattisgarh.</li> </ul>
10.	World History {1453 to 1871}	BHIST - 201	Co - relation of the events happening in the countries of Europe, Asia, and America	<ul style="list-style-type: none"> <li>To familiarize the students to the history of Modern World.</li> <li>To understand the Co- relation of the events happening in the countries of Europe, Asia, and America.</li> </ul>
11.	Physical Geography: Geomorphology	BGEOCT 101	The conceptual and dynamic aspects of land, the relevance of applied aspects of Geomorphology in various field	<ul style="list-style-type: none"> <li>Provide the knowledge of physical properties of the earth surface as it is the basic concept of the geography to acquire the knowledge of Hydrosphere, Lithosphere, and Atmosphere.</li> <li>The understanding of geomorphology with relevance to certain Fundamental concept of earth and land form formation, water, winds, and climatic features of the earth.</li> </ul>
12.	Cartographic Techniques	BGEOCP 101	Basic concept of Latitude and Longitude Identification of tropic of cancer, Capricorn and equator on map	<ul style="list-style-type: none"> <li>Student can learn the fundamentals of the surveying, map cartography, and scale.</li> </ul>
13.	Human Geography	BGEOCT 201	Man - environment relationship, Distribution of population, World distribution pattern	<ul style="list-style-type: none"> <li>Understand the basic concepts of various field of Human Geography.</li> <li>Appreciate the growth, distribution and composition of population in different part of the World.</li> </ul>
14.	Cartographic Techniques II	BGEOCP 201	Statistical Techniques, Surveying: Basic principles of Surveying, Chain, and Tape Survey - Measurement of Area	<ul style="list-style-type: none"> <li>Students can understand the importance of Map and its Basic.</li> <li>Students are able to learn the scale and,</li> <li>They have the knowledge of relief feature</li> </ul>
15.	Psychology: An Introduction	BPsyCT 101	Biological basis of human behaviour. Learning, Memory and perception, Motivation and Emotion etc.	<ul style="list-style-type: none"> <li>Understanding what psychology actually explains.</li> <li>Thorough knowledge of the scope and the field of psychology.</li> <li>Acquaintance with fundamental concepts of psychological processes such as attention, perception, learning, memory, emotion, motivation, and human biological system.</li> <li>Expertise with personal level phenomenon such as personality, and intelligence</li> </ul>
16.	Lab Work/ Psychological Testing	BPsyCP 101	Variety of skills to administer psychological tests and to ensure the interpretation of reports.	<ul style="list-style-type: none"> <li>Students will be trained to assess psychological characteristics and also imparted with a variety of skills to administer psychological tests and to ensure the interpretation of reports</li> </ul>
17.	Counseling skills - I	BPsyST101	Understanding counselling process, professional counsellors, training clients in relaxation	<ul style="list-style-type: none"> <li>Having a comprehensive understanding of the profession of counselling particularly in the Indian context</li> <li>Developing proficiencies to assist professional counsellors during intake interviews</li> <li>Acquiring basic counselling skills of problem identification and relationship building</li> </ul>
18.	Micro Economics	BECO - 101	Rational behaviour of Microeconomics, Production function, Theory of distribution	<ul style="list-style-type: none"> <li>Understand rational behaviour of micro economics</li> <li>Know about the production process.</li> <li>Able to explain the markets and their compositions.</li> <li>Students will have knowledge of welfare, which is a pivot to equality and justice.</li> <li>Help the students to know and judge the basics of buying and selling and product pricing.</li> </ul>
19.	Indian Economy	BECO - 201	New Economic Reforms, Demographic Trends of India, Nature and Importance of Agriculture, Agriculture in Chhattisgarh	<ul style="list-style-type: none"> <li>Learn about the state of Indian economy pre and post-Independence.</li> <li>Learn about the planning process and its achievements in Indian Economy.</li> <li>Students will come across with the new economic reforms introduced in Indian economy in the year 1991 and its role in India's development.</li> <li>Learn the state income of Chhattisgarh in the</li> </ul>

				<ul style="list-style-type: none"> <li>form of GSDP, per capita income, sectoral contribution etc.</li> <li>Learn about the importance of agriculture in Chhattisgarh's economy.</li> </ul>
20.	Vyakaran and Nitishashtra	BsanCT101	Laghusidhanta Kaumudi, Karak aur vibhakti prakaran, Hitopadesh	<ul style="list-style-type: none"> <li>Laghusidhanta Kaumudi, Karak aur vibhakti prakaran, Hitopadesh</li> </ul>
21.	Sahitya aur Itihaas	BsanCT102	Kavi Parichaya, Granth Parichaya, Bhaskriya Swapnvaasvadattam, Valmikikriya Mulramayanam	<ul style="list-style-type: none"> <li>Kavi Parichaya, Granth Parichaya, Bhaskriya Swapnvaasvadattam, Valmikikriya Mulramayanam</li> </ul>
22.	Prachin evam madhyakalin Kavya	BHinC101T	Hindi Sahitya ka Itihaas, Kabir, Surdas, Tulsidas, Ghananand	<ul style="list-style-type: none"> <li>Hindi Sahitya ka Itihaas, Kabir, Surdas, Tulsidas, Ghananand</li> </ul>
23.	Hindi Katha Sahitya	Bhin C201 T	Hindi Upanyas, Kahani - Premchand, Chandra Dhar Sharma, Jayshanker Prasad, Jainendra etc	<ul style="list-style-type: none"> <li>Hindi Upanyas, Kahani - Premchand, Chandra Dhar Sharma, Jayshanker Prasad, Jainendra etc</li> </ul>
24.	Introduction to Literature	BEngCT 101	What Literature is valued for? Why read literature, literary values and function of literature. Tales, stories, epics, drama, etc. to think critically through a reading of literatures, and analyse texts.	<ul style="list-style-type: none"> <li>Learn the meaning of literature, literary values, and basic literary concepts.</li> <li>Have a basic understanding of development of English Literature in terms of various movements.</li> <li>Engage with different genres and forms of English Literature.</li> <li>Develop skills of critical analysis and interpretation of selected work in order to understand the theme, language, tone and style, and elements of prosody.</li> <li>Develop fundamental skills required for close reading to evaluate the texts and concepts</li> </ul>
25.	British literature	BEngCT 201	Poetry, Drama, Fiction from Elizabethan Age to Modern Age, an awareness of nuances in Literature.	<ul style="list-style-type: none"> <li>Learn English Literary cultures from the renaissance to the present</li> <li>Understand the different forms and types of British Literatures through texts</li> <li>Demonstrate an awareness of nuances in literature</li> <li>Appreciate and analyze the texts in the larger socio-political and religious contexts of the time.</li> <li>Extend the knowledge of life in literature to life and living situations</li> </ul>
26.	Bhartiya Sangeet ka Itihaas	BMusCT 101	Sangeet ka Adhaarbhut Gyan, Sthaniya Sangeet kala ka Parichya, sangeet ke vivid Ayaamo ka gyan	<ul style="list-style-type: none"> <li>Understand the basic knowledge of music</li> <li>Understand the place of local music</li> </ul>
27.	Bhartiya Sangeet ka Itihaas Practical	BMusCP 101	Raag samay Sidhsnt, Raag Rachna Vidhi, Chhattisgarh ke Lok Sangeet	<ul style="list-style-type: none"> <li>Understand the history of Bhartiya Sangeet</li> <li>Understand the folk music of Chhattisgarh</li> </ul>
28.	Kriyatmak Sangeet	BMusCT102		
29.	Chemistry	BCHEMC101T	Atomic Structure, Periodicity of Elements, Basics of Organic Chemistry, Stereochemistry, mathematical Concepts for Chemistry	<ul style="list-style-type: none"> <li>Predict and define physical and chemical characteristics of elements in various groups and periods in periodic table</li> <li>Know fundamental concepts of Basics of organic chemistry.</li> <li>Understand stereochemistry of organic molecules</li> <li>Attainment of concepts and laws to chemical phenomenon by studying Gaseous state.</li> <li>Understand the logical and critical thinking</li> </ul>
30.	Chemistry	BCHEMC101P	Demonstration of laboratory Glass wares and Equipment. Determination of the melting points of organic compounds. Effect of impurities on the melting point – mixed melting point of two unknown organic compounds.	<ul style="list-style-type: none"> <li>Students will be able to measure surface tension</li> <li>Measure viscosity of liquids</li> <li>Identify functional group in organic compound</li> </ul>
31.	Chemistry	BCHEMC201T	Chemical Bonding, Chemistry of Aliphatic	<ul style="list-style-type: none"> <li>Understand chemical bonding in molecule</li> </ul>

			Hydrocarbons, A - Liquid State, Ionic Equilibria	<ul style="list-style-type: none"> <li>Predict the structure of molecule</li> <li>Know about Reaction Mechanism</li> <li>Explain internal structure of crystal</li> <li>Solve numerical problems</li> </ul>
32.	Chemistry	BCHEMC102P	Inorganic Chemistry – Semi- micro qualitative analysis, Acid – Base Titrations	<ul style="list-style-type: none"> <li>Able to do qualitative inorganic analysis</li> <li>Understand redox titration</li> <li>Know about calibration</li> <li>Understand the concept of common ion effect and solubility product.</li> </ul>
33.	Anatomy and Physiology	CN – 1T	Human Cell – Structure, organelles Tissues – Epithelial, connective Bone – structure and classification Blood and Blood circulation Respiratory System, Digestive system, Muscular system	<ul style="list-style-type: none"> <li>Understand basic knowledge of Human body structure</li> <li>Understand basic knowledge of Human body functioning</li> <li>Understand basic knowledge of Homeostasis</li> <li>Understand basic knowledge of Genetical regulation</li> <li>Understand basic knowledge of Nutrients</li> </ul>
34.	Physiology and Basic Nutrition	CN – 2T	Excretory system: Organ structure, kidney functions Skin Structure and functions: dermis and epidermis, Structure of sweat and sebaceous gland, Eye and Ear structure and functions. Digestion and absorption, Nerve impulse, Reproductive system Carbohydrates, Proteins, Minerals, Vitamins etc.	<ul style="list-style-type: none"> <li>Knowledge of various body system</li> <li>Understand functioning of body system</li> <li>Importance of Nutrients for health</li> <li>Basic knowledge of chemistry of nutrients</li> <li>Knowledge of deficiency diseases caused by absence of nutrients</li> </ul>
35.	Physiology and Basic Nutrition	CN – 1P	Types of cells, Blood, Digestion, Estimation of Blood Pressure by auscultatory method	<ul style="list-style-type: none"> <li>Understand Blood group and Rh factor</li> <li>Understand Basic Human Tissues</li> <li>Understand Hemoglobin level and Anemic</li> <li>Understand basic knowledge of blood pressure and its regulation</li> <li>Understand basic knowledge of normal and abnormal constituents of urine</li> </ul>
36.	Basic Nutrition and Food Chemistry	FQ – 1T	Introduction to Carbohydrates, digestion absorption, Nutrition, Proteins, Minerals, Energy, Vitamins: Composition, Source of nutrients, functions,	<ul style="list-style-type: none"> <li>Understand basic knowledge of food and nutrition</li> <li>Understand basic knowledge of Food Microbiology and sanitation</li> <li>Understand basic knowledge of Carbohydrate.</li> <li>Understand basic knowledge of Protein.</li> <li>Understand basic knowledge of Minerals, Vitamins, Enzymes</li> </ul>
37.	LAB 1 : Food Microbiology	FQ - 1P	Use and Care of Kitchen equipment, Fruit preparation, Demonstration of the different parts of microscope, Preparation of common laboratory media for cultivation of Bacteria yeast and fungus moulds	<ul style="list-style-type: none"> <li>Weight and Measurement standard for cooking</li> <li>Preparational of low- cost Nutritional recipe</li> <li>Identification looking various microorganism</li> <li>Preparation of culture to develop colonies of micro- organism</li> <li>Use of Laminar flow for growing micro – organism colonies</li> </ul>
38.	Food Microbiology and Sanitation	FQ - 2T	Introduction to Microbiology: relevance to everyday life, Microbiology of different foods spoilage and Contaminations, Microbial: Intoxications and Infections - sources of contamination of foods	<ul style="list-style-type: none"> <li>Understand Basic knowledge of Microbiology</li> <li>Understand basic knowledge of relationship of microorganisms to sanitation</li> <li>Understand basic knowledge of Importance of personal hygiene of food handler</li> <li>Understand basic knowledge of Food Safety</li> <li>Understand basic knowledge of Microbiological Food standards</li> </ul>
39.	Microbial Diversity and Plant Pathology	BBOTDSCT101	Instrumentation and Microbial World, Phycology, Mycology, Plant Pathology	<ul style="list-style-type: none"> <li>Understand the viruses, bacteria, phycology, mycology, and plant pathology</li> <li>Learn microbial techniques which will be beneficial for agriculture and Industry</li> <li>Learn Life Cycle of selected genera of different groups</li> </ul>

				<ul style="list-style-type: none"> <li>Understand etiology of plant diseases</li> <li>Apply their knowledge in the crop fields to eradicate or avoid the diseases</li> <li>Apply different bio fertilizers to enhance productivity</li> </ul>
40.	Microbial Diversity and Plant Pathology Practical	BBOTDSCP101	Instrumentation and Techniques, Bacterial Identification, Mycology, Phycology, Experimental Plant Pathology	<ul style="list-style-type: none"> <li>Understand the instruments, techniques, and good lab practices for working in a microbiology laboratory</li> <li>Develop skills for identifying microbes and using them for Industrial, Agriculture and Environment purposes</li> <li>Practical skills in the field and laboratory experiments in microbiology and pathology</li> <li>Can initiate his own Plant and seed diagnostic clinic</li> <li>Can start own enterprise on microbial products</li> </ul>
41.	Diversity of Archegoniate and Palaeobotany	BBOTDSC - 201	General characteristics and affinities of Bryophytes and Gymnosperms, Phylogenetic relationships with the help of palaeobotanical studies	<ul style="list-style-type: none"> <li>Understand the general characteristics and affinities of Bryophytes, Pteridophytes, and Gymnosperms</li> <li>Phylogenetic relationships with the help of Palaeobotanical studies</li> <li>Learn morphology, and flower architecture of angiosperms</li> </ul>
42.	Diversity of Archegoniate and Palaeobotany - Practical	BBOTDSCP - 201	Identify Bryophytes, Pteridophytes, Gymnosperms on the basis of morphological, anatomical studies and reproduction	<ul style="list-style-type: none"> <li>Learn to identify Bryophytes on the basis of morphological, anatomical studies and reproduction</li> <li>Learn to identify Pteridophytes on the basis of morphological, anatomical studies and reproduction</li> <li>Learn to identify Gymnosperms on the basis of morphological, anatomical studies and reproduction</li> <li>Learn to identify fossils</li> </ul>
43.	General Microbiology	BMCT - 101	Microbiological stains and staining techniques, Principles and methods of sterilization Different types of Microscopes: their construction and working principles	<ul style="list-style-type: none"> <li>Introduced to the field of Microbiology and its historical development, basic and applied aspects of microbiology, and scope of Microbiology</li> <li>Learn the basic microbiological techniques viz. microscopy, staining, and sterilization involved in the handling, control, and study of microorganisms</li> <li>Learn and understand the working principles of light microscopy and to understand their applications of the principles in the laboratory</li> </ul>
44.	Microbial Techniques and Staining	BMCP - 101	Laboratory rules and regulations, Principles and operations, cleaning and sterilization of glassware, preparation of culture media	<ul style="list-style-type: none"> <li>Understand the basics of laboratory rules and minimum requirements of a laboratory equipment/instruments and their operations</li> <li>Understand media preparation methods</li> <li>Understand pure culture methods to isolate and enumerate microbes</li> <li>Understand various staining techniques</li> </ul>
45.	Microbial Diversity	BMCT - 201	Cytology of microorganism, The Microbial world, Diversity and Biology of microorganisms with reference to structure, reproduction, classification, identification and economic importance	<ul style="list-style-type: none"> <li>Acquainted with the microbial world</li> <li>Study the characteristics of prokaryotes and eukaryotes and understand the structural similarities and differences among various groups of microorganisms</li> <li>Study the cytology of microorganisms</li> <li>Study the diversity and biology of microorganisms with reference to their structure, reproduction, classification, identification, and economic importance.</li> </ul>
46.	Microbial Diversity - Practical	BMCP - 201	Study of Cyanobacteria, Fungi, Algae, Protozoa, Isolation of TMV in crude form (by sucrose gradient method) and inoculation to healthy plants	<ul style="list-style-type: none"> <li>Understand the cytology of microorganisms</li> <li>Understand morphological features of microorganisms</li> <li>Understand pure culture methods to isolate and enumerate microbes.</li> </ul>
47.	Animal Diversity: Non - Chordata	BZOOLCT101	Elementary knowledge of species, Outline idea of international code of Zoological Nomenclature, General characters of the phylum and classification	<ul style="list-style-type: none"> <li>Learn about the importance of systemic, taxonomy, and phylogeny to get a concrete idea of evolution of non – chordate phyla</li> <li>Understand the various morphological, anatomical structures and functions of animals of different phyla</li> </ul>

				<ul style="list-style-type: none"> <li>Apply basic understanding for economic, ecological, and medical significance of various animals in human welfare</li> <li>Understand the important parasites and their control measures</li> <li>Analyze complexity of life forms from lower to higher Taxa</li> </ul>
48.	Practical lab -1	BZOOLCP101	Identify major invertebrate groups and representatives, Use of Microscopes and its functions, etc.	<ul style="list-style-type: none"> <li>Identify major invertebrate groups and representatives</li> <li>Know about animals inhabiting different habitat</li> <li>Learn to use microscopes and its functioning by observing permanent slides</li> <li>Understand complexity of life forms</li> </ul>
49.	Diversity of Chordates, Comparative Anatomy and Physiology of Chordates	BZOOLCT201	Classification of Chordata, Comparative Anatomy of various organ systems, Physiology of Chordates, physiology of excretion, Osmoregulation	<ul style="list-style-type: none"> <li>Understand the morphological, anatomical, and physiological adaptation in diverse habits.</li> <li>Apply basic knowledge to analyze and evaluate process of evolution of vertebrates thus integrating structure, function and development</li> </ul>
50.	Practical Lab - 2	BZOOLCP201	Identify major invertebrate and vertebrate groups and representatives, animals inhabiting different habitat, differentiate bones of chordates.	<ul style="list-style-type: none"> <li>Identify major invertebrate and vertebrate groups and representatives</li> <li>Know about animals inhabiting different habitat</li> <li>Learn to use microscopes and its functioning by observing permanent slides</li> <li>Identify and differentiate bones of chordates</li> <li>Understand complexity of life forms</li> </ul>
51.	Fundamentals of Biotechnology and Microbiology	BBTCT - 101	Concept, History, Objective, and Scope of Biotechnology, Bacterial Reproduction and Recombination, Food production, food spoilage, Dairy production etc.	<ul style="list-style-type: none"> <li>Learn the basic of Biotechnology and Microbiology</li> <li>Understand the different Sterilization techniques</li> <li>Apply the methods of food preservation</li> <li>Become familiar with the Eminent Biotechnologist and their contribution</li> </ul>
52.	Fundamentals of Biotechnology and Microbiology Practical Lab -1	BBTCP - 101	Preparation of laboratory glass wares, Chemical Washing, Cleaning, and Drying, Handling and care of compound microscope, Demonstration of spread plate, steak plate and pour plate	<ul style="list-style-type: none"> <li>Handling glass wares and laboratory equipment</li> <li>Perform simple and differential staining methods</li> <li>Preparation of microbial culture</li> </ul>
53.	Biochemistry and Bio instrumentation	BBTCT - 201	Concept and structure of Biomolecules, Properties of Proteins and Enzymes, Biological Oxidation, Bio Instrumentation	<ul style="list-style-type: none"> <li>Understand on fundamentals of biological molecules</li> <li>Learn the concept of proteins, carbohydrates, lipids, vitamins, and nucleic acid</li> <li>Understand the types and structures of proteins, carbohydrates, lipids, vitamins, and nucleic acid</li> </ul>
54.	Biochemistry and Bio instrumentation Practical lab - II	BBTCP - 201	Qualitative tests for Carbohydrates, Lipids, proteins, Nucleic acid, Separation and Identification of amino acid mixture by Paper chromatography etc.	<ul style="list-style-type: none"> <li>Perform the qualitative test of carbohydrate and lipid</li> <li>Learn to estimate the Protein and Nucleic acid</li> <li>Learn to perform the chromatography and electrophoresis</li> </ul>
55.	Mechanics	PSCC - 001T	Vectors, differential Equations, Work and Energy, Elasticity, Oscillations, Special Theory of Relativity.	<ul style="list-style-type: none"> <li>Knowledge about the vectors and differential equations used in physics</li> <li>Get an idea of different types of motions and conservation laws</li> <li>Get an idea about rotational motion and various properties of matter like elasticity and viscosity</li> <li>Understand various types of oscillatory motion and GPS system</li> <li>Get an idea about Frame of reference and special theory of relativity</li> </ul>
56.	Electricity and Magnetism	PSCC - 002T	Vector Analysis, dielectric and Electric Currents, Magnetism, electromagnetic Induction.	<ul style="list-style-type: none"> <li>Get the knowledge about the vectors analysis and able to supply in electrostatic and magnetostatics</li> <li>Get an idea about Dielectric and electric currents and also the application in Ac circuits</li> <li>Get idea about magnetic properties of material</li> <li>Get an idea about Electromagnetic wave propagation</li> <li>Solve numerical problems based on entire syllabus</li> </ul>

57.	LAB 1: Mechanics, Electricity and Magnetism	PSCC - 001P	Determination of Moment of Inertia of a Flywheel, Verification of theorem of parallel and perpendicular axis of moment of Inertia, Use of Mustimeter for measuring	<ul style="list-style-type: none"> <li>To get knowledge about the use of various measuring instruments</li> <li>To get understanding about the simple harmonic motion, elasticity, surface tension and viscosity</li> <li>Students will be able to understand applications of basic principle of Electricity and Magnetism theory in real world</li> </ul>
58.	Calculus	BMATHCT101	Curvature, Asymptotes, Curve Tracing, Functions of Several Variables, Double and Triple Integrals	<ul style="list-style-type: none"> <li>Calculate the limit and examine the continuity and understand the geometrical interpretation of differentiability.</li> <li>Apply various test to determine convergence</li> <li>Draw curves in cartesian and polar coordinate systems</li> <li>Understand conceptual variations while advancing from one variable to several variables in calculus</li> <li>Inter- relationship among the line integral, double and triple integral formulations Beta and gamma function.</li> </ul>
59.	Algebra	BMATHCT201	Set Theory and Theory of Equations, Cyclic and Permutation Groups, Ring, Field and Integral Doman, Ideals and Modules	<ul style="list-style-type: none"> <li>Learn about the fundamental concepts of groups, subgroups, nor mal subgroups, isomorphism theorems, cyclic and permutation groups</li> <li>Learn about Rings, Integral domain and field</li> <li>Understand Ideals and Modules</li> </ul>
60.	Computer Fundamentals	BCACT101 -I	Basics of Computer, Computer Software, Operating System, Program Planning and Computer Languages, Internet application	<ul style="list-style-type: none"> <li>Understand the concept of input and output devices and the basic terminologies used in the computer</li> <li>Understand the programming, flow chart symbols, complete and correct flow chart algorithms, create a program based on a flow chart</li> <li>Identify categories of programs, system software and applications. Organize and work with files and folders</li> <li>Utilize the internet Web resources and evaluate on -line e-business system</li> <li>Solve common business problems using appropriate Information Technology applications and systems</li> </ul>
61.	Programming in C	BCACT101 -II	C Programming Concepts, Arrays, String, Structures and Unions in C, Function and Pointers, File Maintenance in C	<ul style="list-style-type: none"> <li>Learn the fundamental programming concepts and methodologies which are essential to create good C programs</li> <li>Practice the fundamental programming methodologies in the C programming language via laboratory experiences</li> <li>Code, test, and implement a well- structured, robust computer program using the C programming language</li> <li>Write reusable modules.</li> </ul>
62.	Digital Electronics and Microprocessor	BCACT101 -III	Digital electronics, Logic families and Boolean Algebra, Combinational and Sequential Circuit, Microprocessor	<ul style="list-style-type: none"> <li>Understand the fundamental concepts and techniques used in digital electronics</li> <li>Understand and examine the structure of various number systems and its application in digital design</li> <li>Understand, analyze and design various combinational and sequential circuits</li> <li>Classify different semiconductor memories</li> </ul>
63.	PC Software Package	BCACT201 -I	WINDOWS, Introduction to MS Word, Introduction to MS Power Point, Introduction to MS Excel	<ul style="list-style-type: none"> <li>Identify the parts of the Windows operating system and uses of common Windows</li> <li>Learn Modern office activities and their software requirements</li> <li>Create a new Word document and formatting a document using MS – WORD</li> <li>Create an electronic spreadsheet using MS – Excel, familiarize oneself with Excel’s basic and advance features</li> <li>Learn slide show presentation concepts and explore the Microsoft Office Power Point environment</li> </ul>
64.	Programming in C++	BCACT201 -II	Features of C++, OOP vs procedure - oriented programming, Binding	<ul style="list-style-type: none"> <li>Learn the fundamental programming concepts and methodologies which are essential to create good C++ programs</li> </ul>

			Data and Functions, Polymorphism etc.	<ul style="list-style-type: none"> <li>Practice the fundamental programming methodologies in the C++ programming language via laboratory experiences</li> <li>Code, test, and implement a well – structured, robust computer program using the C++ programming language</li> </ul>
65.	Discreet Mathematics	BCACT201 -III	Recall of statements and logical connectives, partial order relations, set, Subsets, Operations on Sets, Basic concept of Graph Theory etc.	<ul style="list-style-type: none"> <li>Understand the notion of mathematical thinking, mathematical proofs, and algorithmic thinking, and be able to apply them in problem solving</li> <li>Be able to use effectively algebraic techniques to analyze basic discrete structures and algorithms</li> <li>Understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples</li> </ul>
66.	Computer Fundamentals Lab	BCACP201 - I	Basic Operations on Computer, System Tools, Network Management, DOS, Control Panel Settings, Windows Installation, Search Engine, Web Browsing etc.	<ul style="list-style-type: none"> <li>Learn basic operations/ functioning of Computer</li> <li>Able to learn operating system (Windows/DOS)</li> <li>Able to learn basic computer configuration and stings</li> <li>Able to create algorithms and design flowchart</li> </ul>
67.	PC Software Lab	BCACP201 - II	MS WORD, MS POWER POINT, MS EXCEL: Basic formatting, paragraph formatting, page formatting, Creating Presentations, effects and Animation, Slide show, operators in MS EXCEL, using functions, Graph and Charts	<ul style="list-style-type: none"> <li>Learn Modern Office activities and their software requirements</li> <li>Create a new Word document and formatting a document using MS – WORD</li> <li>Create an electronic spreadsheet using MS – Excel, Familiarize oneself with Excel's basic and advance features</li> <li>Create slide show presentation and explore the Microsoft Office Power Point environment</li> </ul>
68.	Programming Lab in C	BCACP201 - III	WAP to interchange, check, convert, compute, find the factorial value, Concatenate and Compare two strings, calculate length of the strings, read and copy content etc.	<ul style="list-style-type: none"> <li>Learn the fundamental programming concepts and methodologies which are essential to create good C programs</li> <li>Practice the fundamental programming methodologies in the C programming language via laboratory experiences</li> <li>Code, test, and implement a well – structured, robust computer program using the C programming language</li> <li>Write reusable modules (collections of functions)</li> </ul>
69.	Programming Lab in C++	BCACP201 - IV	Write C++ program to find the sum of individual digits of a positive integer, to implement the matrix ADT, Reading and printing matrix, concept od CLASS and OBJECT etc.	<ul style="list-style-type: none"> <li>Learn the fundamental programming concepts and methodologies which are essential to create good C ++programs</li> <li>Practice the fundamental programming methodologies in the C++ programming language via laboratory experiences</li> <li>Code, test, and implement a well – structured, robust computer program using the C++ programming language</li> <li>Write reusable modules (collections of functions)</li> </ul>
70.	Computer Fundamental and PC Packages	BSCCT101	Processor Building Block, Memory and I/O Devices, Ms Windows and Ms Word, Ms Excel and Ms Power Point etc.	<ul style="list-style-type: none"> <li>Understand characteristics and basic structure computer system</li> <li>Have basic knowledge of processor building blocks</li> <li>Get familiar with memory and I/O devices</li> <li>Learn Office suite</li> </ul>
71.	Computer Fundamental and PC Packages Laboratory Course	BSCCP101	Windows, MS Word, MS Excel, MS Power Point etc. [ Steps to create, open a new work book, insert watermark, create slides, insert second slide etc.]	<ul style="list-style-type: none"> <li>Get familiar with GUI</li> <li>Have an insight into Office suit</li> <li>Learn creating and formatting documents in word processor software</li> <li>Work on spreadsheet software</li> <li>Create and use formulas and chart in worksheet</li> <li>Create effective and impressive presentation</li> </ul>
72.	Programming Methodology with 'C'	BSCCT201	Introduction to program concept, Control Structures, Structure, Union and Pointers, File Managements etc.	<ul style="list-style-type: none"> <li>Develop programming concept</li> <li>Understand basics of data structure and program flow</li> <li>Learn about the strategies of writing efficient and well- structured programs</li> <li>Learn array processing coupled with iterative methods</li> <li>Learn use of printers</li> <li>Understand recursive techniques</li> </ul>



73.	Programming Methodology with 'C' Laboratory Course	BSCCP201	Write a Program to find area, simple interest, convert temperatures, enter selling price, enter marks, compute the sum, explain pointer arithmetic etc.	<ul style="list-style-type: none"> <li>Learn appropriate use of operators, selection, and control structures</li> <li>Learn how to use arrays</li> <li>Have an insight of structures and union</li> <li>Learn to write recursive programs</li> <li>Learn how to use functions and how to pass parameters</li> <li>Understand file handling</li> </ul>
74.	Financial Accounting	BBBAC – 101	Theoretical Framework, Accounting Process, Nature of Depreciation, Partnership accounts, Company accounts	<ul style="list-style-type: none"> <li>Apply the generally accepted accounting principles while recording transactions and preparing financial statements</li> <li>Prepare cash book and other accounts necessary while running a business</li> <li>Evaluate the importance of depreciation in financial statements</li> <li>Prepare financial statements of sole proprietors</li> <li>Understand accounting treatment for share capital, admission and retirement of partner and dissolution of partnership</li> </ul>
75.	Managerial Economics	BBBAC - 102	Demand, Supply, and Market Equilibrium, Elasticity of Demand and Supply, Theory of Consumer Behaviour, Producer and Optimal production Choice, Theory of Firm and Market organization	<ul style="list-style-type: none"> <li>Understand the application of Economic Principles in management decision making</li> <li>Understand, assess and forecast demand</li> <li>Analyze the relationship between inputs used in production and the resulting outputs and costs</li> <li>Apply the concepts of production and cost for optimization of production</li> <li>Analyze and interpret market mechanism and behavior of firms and response of firms to different market situations</li> </ul>
76.	Business Environment	BBBAC - 103	Economic Trend, Economic Problem of Growth, Economic Planning in India, International Environment, International Economic Groups etc.	<ul style="list-style-type: none"> <li>Understand the relationship between environment and business applying the environment analysis techniques in practice</li> <li>Understand the various social and economic problems and factors that affect economic growth</li> <li>Familiarize with the nature of local business environment and its component</li> <li>Acquaint students with government policies and different roles for the emergence, upliftment, and smooth functioning of business organization</li> <li>Able to demonstrate and develop conceptual frame work of business environment and generate interest in international business</li> </ul>
77.	Business Mathematics	BBBAC -201	Simultaneous Equations, Matrices and Determinants, Mathematics of Finance, Commercial Mathematics.	<ul style="list-style-type: none"> <li>Understand the students to have minimum knowledge of Mathematics as is applicable to business and economic</li> <li>Explain the concepts and use equations, formulae, and mathematical expressions and relationships in a variety of context</li> <li>Students would calculate ratio, proportion, variation, and percentage</li> <li>Students would be able to calculate and evaluate the profit or loss arising out of business transactions</li> <li>Students would recall and relate the concepts of interest, rate of interest, annuity, and installments</li> </ul>
78.	Management Principles	BBBAC -202	Principles and Functions of Management, Planning and Decision Making, Organization, Delegation of Authority, Co-ordination, Controlling and Budgeting	<ul style="list-style-type: none"> <li>Have clear understanding of management concepts and managerial functions</li> <li>Understand the concept of organization</li> <li>Understand the planning and decision process in the organization</li> <li>Interpret the relevance of delegation and decentralization of authority in an organization</li> <li>Demonstrate the ability to directing and coordinating effectively</li> <li>Analysis isolate issues and formulate best control method</li> </ul>
79.	Computer Fundamentals	BBBAC -203	Introduction to Computers, Computer Organization, E - Commerce Framework, Mobile Commerce, Network Infrastructure and E - Payment	<ul style="list-style-type: none"> <li>Understand the MS Word with page set up, formatting text, print documents and mail merge</li> <li>Understand the MS Excel with creating sheets, calculation in cell and prepare charts</li> <li>Understand the sorting and filter in MS Excel</li> </ul>

				<ul style="list-style-type: none"> <li>Understand the MS Power point with design templates, slide transaction and animation effects</li> <li>Understand the MS Access and graphics</li> </ul>
80.	Financial Accounting	BBCPC – 101	Theoretical Framework, Accounting Process, Nature of Depreciation, Partnership accounts, Company accounts	<ul style="list-style-type: none"> <li>Apply the generally accepted accounting principles while recording transactions and preparing financial statements</li> <li>Prepare cash book and other accounts necessary while running a business</li> <li>Measure business income applying relevant accounting standards</li> <li>Evaluate the importance of depreciation in financial statements</li> <li>Prepare Trial balance and financial statements of sole proprietors</li> </ul>
81.	Business Law	BBCPC -102	Law of Contract, Special Contract, Sale of Goods, Consumer Protection Act, 2019, Limited Liability Partnership Act, 2008, Negotiable Instrument, Act 1881, Completion Act, 2002	<ul style="list-style-type: none"> <li>Understand basic aspects of contracts for making the agreements, contracts and subsequently enter valid business propositions</li> <li>Able to recognize and differentiate the special contracts and identify their appropriate usage at varied business scenarios</li> <li>Equip the students about the legitimate rights and obligations under The Sale of Goods Act</li> <li>Enable with skills to initiate entrepreneurial ventures as LLP</li> <li>Explain the law governing regulation and management of foreign exchange under FEMA</li> </ul>
82.	Business Environment	BBCPC – 103	Economic Trend, Economic Problem of Growth, Economic Planning in India, International Environment, International Economic Groups etc.	<ul style="list-style-type: none"> <li>Understand the relationship between environment and business applying the environment analysis techniques in practice</li> <li>Understand the various social and economic problems and factors that affect economic growth</li> <li>Familiarize with the Nature of local business environment and its component</li> <li>Acquaint students with government policies and different roles for the emergence, upliftment and smooth functioning of business organization</li> <li>Able to demonstrate and develop conceptual framework of business environment and generate interest in international business</li> </ul>
83.	Computer Fundamentals	BBCCC – 101	Computer System, Input Devices, Central Processing Unit, System Software, Microsoft Windows, MS Office	<ul style="list-style-type: none"> <li>Understand the concepts, structure, types, and design of operating systems</li> <li>Explain the representation of data and information in computer systems and use standard word, spreadsheets, and graphics generation packages</li> <li>Recognize when to use each of the Microsoft Office programs to create professional and academic documents and will have a working knowledge of paragraph formatting, macro, and mail merge in MS – Word</li> <li>Create presentation by adding slides, applying animations, set times to slides, linking to other files</li> </ul>
84.	Corporate Accounting	BBCPC – 201	Accounting for Share Capital, and Debentures, Financial Statements of Companies, Valuation of Goodwill and Shares, Internal Reconstruction and Amalgamation of Companies	<ul style="list-style-type: none"> <li>Understanding of accounting for share capital and debentures, know about bonus shares, ESOPs, Buy Back etc.</li> <li>Understand the accounting treatment of profit or loss prior to incorporation</li> <li>Prepare financial statements of a company</li> <li>Understand the methods for valuation of goodwill and shares</li> <li>Prepare balance sheet after Internal Reconstruction of Company</li> <li>Analyze the case study of major amalgamations of companies in India</li> </ul>
85.	Corporate Law	BBCPC - 202	Preliminary to Companies Act, 2013, Documents and Shares, Management and Meetings, Oppression, Mismanagement, Corporate Restructuring, and Winding - up	<ul style="list-style-type: none"> <li>Know about the regulatory aspects and the broader procedural aspects involved in different types of companies covering the Companies Act 2013 and Rules there under</li> <li>Follow the basic legal documents and their usage essential for operations and management of company</li> </ul>

				<ul style="list-style-type: none"> <li>Explain relevant definitions and provisions relating to issue of prospectus and allotment of shares;</li> <li>Determine the role of Board of directors and their legal After position synthesize company processes, meetings, and decisions</li> <li>State regulatory aspects involved in Oppression, Mismanagement, corporate restructuring and Winding Up and to study the composition of Adjudicating Authority i.e., NCLT and NCLAT and its powers</li> </ul>
86.	Entrepreneurship Development	BBCPC – 203	Entrepreneurial Behaviour, Entrepreneurial Development Programs, Initiatives of Government of India to promote Entrepreneurship, sources of Business Ideas, Entrepreneurship Ecosystem	<ul style="list-style-type: none"> <li>Discern distinct entrepreneurial traits</li> <li>Identify the parameters to assess opportunities and constraints for new business ideas</li> <li>Develop a business idea by adopting systematic process</li> <li>Design strategies for successful implementation of ideas</li> <li>Create a Business Plan</li> </ul>
87.	PC Software and multimedia	BBCCC – 201	PC PACKAGE, WORKING WITH MS EXCEL, WORKING WITH MS – POWER POINT, ANIMATION AND GRAPHICS	<ul style="list-style-type: none"> <li>Understand the MS Word with page set up, formatting text, print documents and mail merge</li> <li>Understand the MS Excel with creating sheets, calculation in cell and prepare charts</li> <li>Understand the sorting and filter in MS Excel</li> <li>Understand the MS Power point with design templates, slide transaction and animation effects</li> <li>Understand the MS Access and Graphics</li> </ul>
88.	Community Nutrition ans Applied Life Sciences	HSC – 1T	An Introduction of Physiology and Anatomy, Gastro Intestinal System, Excretory System, Reproductive System, Concept and Scope of Community Nutrition	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Human Anatomy</li> <li>To understand Physiology of various system in human body</li> <li>To understand Basic concept of community nutrition</li> <li>To understand various nutrition deficiency diseases prevalent in Indian community</li> <li>To understand various prophylaxis programs run by government</li> </ul>
89.	LAB : Human Physiology and Community Nutrition	HSC - 1P	Recording Pulse rate, Measurement of Blood Pressure, Preparation of temperature chart, Project: Making report of mid- day meal program, visit to Anganwadi	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Human Anatomy</li> <li>To understand physiology of regulation of Blood Pressure, blood group</li> <li>To understand Basic concept of various types of human tissues</li> <li>To understand various nutrition deficiency diseases prevalent in Indian community</li> <li>To understand various adulterants</li> </ul>
90.	Introduction to Human Development	HSC – 2T	An overview on the field of HD, Growth and Development, Genetic Inheritance, Physical development, Motor Development, Cognitive Development, Socio – emotional Development Across the Life Span	<ul style="list-style-type: none"> <li>To understand growth and development</li> <li>To understand Principals of development</li> <li>To understand Importance of heredity and environment</li> <li>To understand various aspects of development</li> <li>To understand Interventions for Families in Trouble</li> </ul>
91.	LAB : Introduction to Human Development	HSC – 2P	Visit to Paediatric Ward, Study of Immunization schedule, Survey of Parent’s Regulative Awareness, Prepare Report of activities and facilities at aanganwadi/ Nursery School	<ul style="list-style-type: none"> <li>To understand Physical growth and development of human child</li> <li>To compare Normal children with delinquent child</li> <li>To understand Importance of heredity and environment on development</li> <li>To develop skills of counselling to parents</li> <li>To study cognitive development across the life span</li> </ul>
92.	Textile and Fiber Science	HSC - 3T	Classification of Textiles, Study of Yarns, Spinning and Finishes, Selection of Fabrics, Principles of Clothing Construction	<ul style="list-style-type: none"> <li>To understand basic knowledge of elements of Arts in Textile science</li> <li>To understand various type of dyeing and printing technology</li> <li>To understand technique for cloth disinfection</li> <li>To understand basic knowledge of cleaning and dry cleaning</li> <li>To understand various finishes</li> </ul>

				<ul style="list-style-type: none"> <li>To understand basic chemistry of soap and detergents</li> </ul>
93.	LAB : Textile and Fibre Science	HSC - 3P	Prepare Design with different colour schemes, prepare different patterns, visit to drycleaning Unit, Stain removal, visit to soap manufacturing unit etc.	<ul style="list-style-type: none"> <li>To understand basic Knowledge pattern making techniques</li> <li>To understand various type of dry cleaning</li> <li>To understand measurement technique for stain removal</li> <li>To understand basic knowledge of cleaning and dry cleaning</li> <li>To understand cloth disinfection</li> <li>To understand basic chemistry of soap and detergents</li> </ul>
94.	Fundamentals of food and Nutrition	HSC - 4T	Concept of Nutrition, Nutrients, Food Structure, Locally available foods et.	<ul style="list-style-type: none"> <li>To understand basic knowledge of foods and nutrition</li> <li>To understand basic knowledge of physiological role of nutrients</li> <li>To understand basic knowledge of structure of nutrients</li> <li>To understand basic knowledge of food groups</li> <li>To understand basic knowledge of locally available foods</li> </ul>
95.	LAB Fundamentals of Foods and Nutrition	HSC – 4P	Weights and Measures standard and household measures for raw and cooked food, Preparation of two low-cost nutritious recipes, cooking methods, Identification and data collection of nutrition based diseases in community	<ul style="list-style-type: none"> <li>To understand Knowledge of weights and measurements for foods related with intake and cooking</li> <li>To create basic Knowledge of any specific nutrient rich/deficient recipe</li> <li>To create specific nutrient dense recipe to combat local deficiency diseases</li> <li>To understand Basic Knowledge of locally available food grains in recipes</li> <li>To develop traditional Indian and Chhattisgarh recipes</li> </ul>
96.	Life Span Development	HSC – 5T	Life Span Development, Adolescence, Adulthood and Aging, Creativity	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Human Development</li> <li>To understand various aspects of development in Life Span</li> <li>To understand Basic concept Creativity in children</li> <li>To understand how to impart creativity in children</li> <li>To understand various problems of life span and coping up strategies</li> </ul>
97.	Theoretical Knowledge of development through life cycle	HSC – 5P	Infancy and Toddlerhood, observe materials available in the locality, Different types of shops, tailor, develop play materials for each age group, Art activities	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Human Development</li> <li>To understand various aspects of development in Life Span</li> <li>To understand Basic concept Creativity in children</li> <li>To understand Developmental activities in children</li> <li>To understand various problems of life span and coping up strategies</li> </ul>
98.	Textile and Laundry Science	HSC – 6T	Laundry process, Wet and Dry Cleaning, Materials and Equipment in Laundry, Bleaches to various fibre fabrics, Technology – agents – classification, Preservation and storage	<ul style="list-style-type: none"> <li>To understand textile fibers</li> <li>To understand Yarn and fabric making process</li> <li>To understand variety of wifes and weaving process</li> <li>To understand various finishes and their uses</li> <li>To understand Dying and printing in detail</li> </ul>
99.	Textile Science	BSCFD – 1T	Properties of textile fibres, Natural Fibre, Man made fibre, Metallic fibre, Yarn making, Yarn numbering, Loom, weaving, Finishes – meaning, Traditional Indian Textile	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of textile terminology</li> <li>To understand Basic Knowledge of Fibers</li> <li>To understand Basic knowledge of Finishes</li> <li>To understand Basic knowledge of yarn</li> </ul>
100	Fashion Illustration	BSCFD - 2T	Fashion Illustration, sketching different lines and shapes, Sewing machine, Neck Lines, Basic Designs	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Fashion Illustration</li> <li>To understand Basic Knowledge of Sketching</li> <li>To understand Basic knowledge of sewing machine</li> </ul>
101	FC English Language	301	Proficiency in reading and writing. Develop effective	<ul style="list-style-type: none"> <li>Proficiency in reading and writing.</li> </ul>

			skills, better social interaction, and self-directed learning.	<ul style="list-style-type: none"> <li>To develop effective skills better social interaction and incalculable self directed learning.</li> <li>Analyze language at different language levels.</li> <li>Teach them the zeal of creativity by teaching them how to write.</li> </ul>
102	fgUnh lkfgR; & vk/kqfud fgUnh dkO;(Hindi Lit)	302	Lora=rk izkflr ds iwoZ ,oa i"pkr~ fopkj/kkjvkksa dk Hkko] f"kyi vkfn ds vk/kkj ij lkfgR;d n`f`Vdks.k ls v/;;u	Lora=rk izkflr ds iwoZ ,oa i"pkr~ fopkj/kkjvkksa dk Hkko] f"kyi vkfn ds vk/kkj ij lkfgR;d n`f`Vdks.k ls v/;;u
103	Nk;kokn ,oa u;h dfork (Hindi Lit.H)	302(H)	Lora=rk izkflr ds i woZ ,oa i"pkr~ ds dkO; dk v/;;u vk Sj rkRdkfyu Hkko] Hkk'kk] f"kyi fopkj/kkj, dk foospuA	Lora=rk izkflr ds i woZ ,oa i"pkr~ ds dkO; dk v/;;u vk Sj rkRdkfyu Hkko] Hkk'kk] f"kyi fopkj/kkj, dk foospuA
104	English Literature (Drama)	303	Understand and analyse various aspects of drama.	<ul style="list-style-type: none"> <li>To enable the students to understand and analyze various aspects of drama.</li> <li>To get the students familiarized with major plays by the great writers like William Shakespeare, J.M.Synge, H.H.Munro.</li> <li>To get the knowledge of different literary terms related to Drama.</li> </ul>
105	Economics- (CBCS) 1. Macro Economy	304	Will able to analyse the economy in quantitative terms, understand the functions of IMF, World Bank, and WTO	<ul style="list-style-type: none"> <li>Using employment and national income statistics students will be able describe and analyse the economy in quantitative terms.</li> <li>The students will be able to understand the meaning, objectives and function IMF, World Bank and WTO.</li> <li>Outline the role of comparative advantage in exchange and describe the role of international trade and finance in domestic economic activity.</li> </ul>
106	2. Agriculture and Industrial Economics		Understand the cooperative marketing in India and significance of public enterprises in India.	<ul style="list-style-type: none"> <li>Students are able to know how the world work, including agriculture, business and governments.</li> <li>Get knowledge about land reforms in India and evaluation of land Programmers.</li> <li>Understand the cooperative marketing in India, they study about the Significance of public enterprises in India.</li> <li>Knowledge about basic industries and their problems in India.</li> </ul>
107	Geography-Physical Geography - Climatology	305	Understand the weather phenomena, climate of the region, causes of variation of element of climate. Understand the global warming and climate change, which helps in creating awareness to the society.	<ul style="list-style-type: none"> <li>This course provides an understanding of weather phenomena, dynamics of global climates, generation of climatic information and its application.</li> </ul>
108	Economics Geography	305(H)	Working in remote sensing and GIS environment i.e; resource appraisal, land use, land cover change, cover change, vegetation, and forest cover mapping etc.	<ul style="list-style-type: none"> <li>Understand Working in remote sensing and GIS environment</li> <li>Understand land use, land cover change, cover change, vegetation, and forest cover mapping</li> </ul>
109	History of India -1206 to 1761	306	prepare the students to understand the foreign invasions and its cultural, social, political, and economic impact on India.	<ul style="list-style-type: none"> <li>To familiarize the students to the Political, Social, Economic, and Cultural aspects of Medieval India and Chhattisgarh.</li> <li>To prepare the students to understand the foreign invasions and its cultural, social, political, and economic impact on India.</li> </ul>
110	History of Maratha (1600-1707)	306(H)	Understand Marathas as an important regional power and its struggle against Mughal	<ul style="list-style-type: none"> <li>Understand Marathas as an important regional power and its struggle against Mughal</li> </ul>
111	Home Science	307	perspective an approach, socio-economic analysis of community - to study the ideology of organising people in development,	<ul style="list-style-type: none"> <li>Understand socio-economic analysis of community</li> <li>Understand ideology of organising people in development</li> </ul>

			appreciate collective action for weaker section for their own development.	<ul style="list-style-type: none"> <li>Understand collective action for weaker section for their own development.</li> </ul>
112	fgUnqLrkuh 'kkL=k; laxhr (urdu)	308		
113	Political Science	309	Explains the ancient political philosophy given by founding fathers of political thought great Plato and Aristotle.	<ul style="list-style-type: none"> <li>Understand the ancient political philosophy</li> <li>Understand Political Thinkers</li> </ul>
114	Psychology	310	Understand symptoms of psychological disorder.	<ul style="list-style-type: none"> <li>Understand symptoms of psychological disorder</li> </ul>
115	laLd' r& ukVd O;kdj.k rFkk jpuk (Sanskrit)	311	Jhg'kZd' r izfl) ukVd *ukxkuUn* ds ek;/e ls vkRecfynku] fir 'HkfDr vk Sj thon;k dh f'k {kkA i"q if{k;k sa d s thou j {kk gsrq R;kx;qDr pfj= fuekZ.k dh izsj.kkA	<ul style="list-style-type: none"> <li>Jhg'kZd' r izfl) ukVd *ukxkuUn* ds ek;/e ls vkRecfynku] fir 'HkfDr vk Sj thon;k dh f'k {kkA i"q if{k;k sa d s thou j {kk gsrq</li> </ul>
116	Sociology - Foundations of Sociological Thoughts	212	The Structure and Composition of Indian Society: Structure: Village, Town. Cities. Urban- Rural Linkage Composition: Tribe, Dalit.	<ul style="list-style-type: none"> <li>Understand The Structure and Composition of Indian Society</li> </ul>
117	Urdu	313		
118	FC Hindi Language	401	<ul style="list-style-type: none"> <li>fgUnh Hkk'kk vkSj fyfi dk KkuA</li> <li>O;ogkfjd rkSj ij fgUnh dk iz;ksx o lS)kafrd le&gt; fodflr djukA</li> <li>rduhdh "kCnkoyh ,oa vuqoknA</li> <li>dEl;wVj esa fgUnh ds vuqiz;ksxA</li> <li>fgUnh Hkk'kk vkSj mlds fofo/k #iks+ ¼ ltZukRed Hkk'kk] lapkj Hkk'kk] dk;kZy;hu Hkk'kk] foRr] of.kT; dh Hkk'kk vkfn½ dk ifjp;A</li> </ul>	
119	fgUnh lkfgR; & fgUnh ukVd ,dkadh ,oa fuca/k (Hin.Lit.)	402	gUnh ukVd] mdkadh ,oa fuca/k rFkk x] fo/kkvk sa dk leqfpr KkuA	<ul style="list-style-type: none"> <li>gUnh ukVd] mdkadh ,oa fuca/k rFkk x] fo/kkvk sa dk leqfpr KkuA</li> </ul>
120	fgUnh lkfgR; & fgUnh ds izfrfu/k ukVd ,dkadh ,oa fuca/k	402(H)	gUnh ds izeq[k x] fo/kkvksa dk v/;;u ,oa foospuA	<ul style="list-style-type: none"> <li>gUnh ds izeq[k x] fo/kkvksa dk v/;;u ,oa foospuA</li> </ul>
121	English Literature CBCS-Elective 1- Fiction & Short Stories	403A	Different forms of Fiction and short stories	<ul style="list-style-type: none"> <li>Understand different forms of Fiction and short stories</li> </ul>
122	Elective 2 - American Literature	403B	Different genres of American literature	<ul style="list-style-type: none"> <li>Understand the different genres of American literature</li> </ul>
123	Elective 3 - History of English Literature	404C	To get the students familiar with historical, political, social, cultural, literary, and intellectual background of different ages.	<ul style="list-style-type: none"> <li>Understand historical, political, social, cultural, literary, and intellectual background of different ages.</li> </ul>
124	Economics-Money, Banking and Public Finance	404	The sources of finance both public and private and financial administration.	<ul style="list-style-type: none"> <li>Understand the sources of finance both public and private and financial administration.</li> </ul>
125	Geography-Physical Geography - Oceanography	405	Students can identify the facets of oceans, chemical properties of the sea water, atmospheric, and oceanographic circulation.	<ul style="list-style-type: none"> <li>Understand the facets of oceans, chemical properties of the sea water, atmospheric, and oceanographic circulation.</li> </ul>
126	Geography - Practical		It provides the understanding of ground reality of a chosen village/city/area by observation, data tabulation etc.	<ul style="list-style-type: none"> <li>Understand ground reality of a chosen village/city/area by observation, data tabulation etc.</li> </ul>
127	Population Geography	405(H)	To identify and understand environment and population in terms of their quality and spatial distribution pattern to comprehend the contemporary issues facing	<ul style="list-style-type: none"> <li>Understand environment and population</li> <li>Understand the contemporary issues facing the global community.</li> </ul>

			the global community.	
128	Geography - Practical		Student get the fundamental knowledge of remote sensing technology.	<ul style="list-style-type: none"> <li>Understand the fundamental knowledge of remote sensing technology</li> </ul>
129	CBCS - 1. World History - 1789 to 1871	406	To familiarize the students to the leading events of World History.	<ul style="list-style-type: none"> <li>Understand the leading events of World History</li> </ul>
130	2. Main Personalities of European History		To prepare the students to understand International Events and its relation to other countries of the World.	<ul style="list-style-type: none"> <li>Understand International Events and its relation to other countries of the World.</li> </ul>
131	History of China-Japan (1900 AD)	406(H)	Prepare and understand the extension of colonialism and struggle by the people against it.	<ul style="list-style-type: none"> <li>Understand the extension of colonialism and struggle by the people against it.</li> </ul>
132	Home Science	407	Understand the application of art principles in design composition of traditional and contemporary art, architecture, textile etc.	<ul style="list-style-type: none"> <li>Understand the application of art principles in design composition of traditional and contemporary art, architecture, textile etc</li> </ul>
133	Home Science - Practical		Understand the basics of computers. To be able to use computers for educational information and research.	<ul style="list-style-type: none"> <li>Understand the basics of computers.</li> <li>Understand use of computers for educational information and research.</li> </ul>
134	fgUnqLrkuh 'kkL=k; laxhr	408		
135	Political Science	409	Explains the political philosophy of ancient India and modern Indian thinkers. State and individual, role of state, from ancient India and socio-political thought Gandhi and Ambedkar.	<ul style="list-style-type: none"> <li>Understand the political philosophy of ancient India and modern Indian thinkers.</li> <li>Understand State and individual, role of state, from ancient India and socio-political thought</li> </ul>
136	Psychology	410	To Study the Interpersonal Attraction, social interaction .	<ul style="list-style-type: none"> <li>Understand the Interpersonal Attraction, social interaction</li> </ul>
137	Psychology - Practical		Understand the psychological climate of the society.	<ul style="list-style-type: none"> <li>Understand the psychological climate of the society.</li> </ul>
138	laLd'r& i  rFkk lkfgR; bfrgkl (sanskrit)	411	R;kx] lgu'khyrk] n;k] izse] fu'Bk] lsokHkkouk bR;kfn mPp ekuoh; xq.kksa dks vkRelkr~ djus dh izsj.kkA	<ul style="list-style-type: none"> <li>R;kx] lgu'khyrk] n;k] izse] fu'Bk] lsokHkkouk bR;kfn mPp ekuoh; xq.kksa dks vkRelkr~ djus dh izsj.kkA</li> </ul>
139	Sociology - Crime and Society	412	Familial Problems: Dowry, Domestic Violence, Divorce, Intra-Intergenerational conflicts, Problem of elderly	<ul style="list-style-type: none"> <li>Understand Familial Problems: Dowry, Domestic Violence, Divorce, Intra-Intergenerational conflicts, Problem of elderly</li> </ul>
140	Urdu	413		
141	FC Hindi Language	501	fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A	<ul style="list-style-type: none"> <li>fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A</li> </ul>
142	fgUnh lkfgR; & tuinh; Hkk'kk lkfgR; (NRrhx<+h) (Hin.Lit)	502	tuinh; Hkk'kk vk Sj lkfgR; ¼NRrhx	<ul style="list-style-type: none"> <li>tuinh; Hkk'kk vk Sj lkfgR; ¼NRrhx</li> </ul>
143	English Literature (Contemporary Literature)	503	Understanding the contemporary Literature written after World War II to the present day. Understand society's social and political viewpoints and socio-economic messages.	<ul style="list-style-type: none"> <li>Understand contemporary Literature written after World War II</li> <li>Understand society's social and political viewpoints and socio-economic messages.</li> </ul>
144	Economics-Developmental and Environmental Economics	504	Understand the concept of Intellectual Capital, efficiency and Productivity in agriculture.	<ul style="list-style-type: none"> <li>Understand the concept of Intellectual Capital, efficiency and Productivity in agriculture.</li> </ul>
145	CBCS - Geography of India	505		<ul style="list-style-type: none"> <li>Understand the comprehensive, integrated and empirically based profile of India with the regional characteristics</li> </ul>

146	Evaluation of Geographical Thought	505(H)		
147	History of India - 1761 to 1950	506	To prepare the students to understand the controversial problems in Indian History.	<ul style="list-style-type: none"> <li>Understand the controversial problems in Indian History.</li> </ul>
148	History of Maratha (1707 - 1818)	506(H)	Understand Marathas as most powerful factor of India after Mughals and their struggle against other regional powers and Britishers.	<ul style="list-style-type: none"> <li>Understand Marathas as most powerful factor of India after Mughals and their struggle against other regional powers and Britishers.</li> </ul>
149	Home Science	507	To gain knowledge regarding kidney, anatomy, and physiology, renal activities, treatments for various renal diseases. Dialysis and renal replacement, renal cancer.	<ul style="list-style-type: none"> <li>Understand basic knowledge regarding kidney, anatomy, and physiology, renal activities</li> <li>Understand treatments for various renal diseases. Dialysis and renal replacement, renal cancer</li> </ul>
150	fgUnqLrkuh 'kkL=h; laxhr (urdu)	508		
151	Political Science	509	The theoretical aspects of foreign policy execution of international politics like concepts of power, balance of power, diplomacy, disarmament etc .	<ul style="list-style-type: none"> <li>Understand foreign policy execution of international politics</li> <li>Understand concepts of power, balance of power, diplomacy, disarmament</li> </ul>
152	Psychology	510	Enable students to measure attitude, aptitude, interest, adjustment, skills etc. within the people.	<ul style="list-style-type: none"> <li>Understand to measure attitude, aptitude, interest, adjustment, skills etc. within the people.</li> </ul>
153	laLd'r& ukVd] Nan rFkk O;kj.k (Sanskrit)	511	“kCnjpk ds vk/kkj izR;;ksa ds Hk sn ;Fkk & d `nUr] rfr ,oa L=h izR;; vk Sj buds }kjk “kCnksa d s flf) fo/kk;d lw= dk KkuA	<ul style="list-style-type: none"> <li>“kCnjpk ds vk/kkj izR;;ksa ds Hk sn ;Fkk &amp; d `nUr] rfr ,oa L=h izR;; vk Sj buds }kjk “kCnksa d s flf) fo/kk;d lw= dk KkuA</li> </ul>
154	Sociology of Tribal Society	512	Social Mobility and change sensitization, Scheme of Tribal Development, Various Tribal Movement Problems of Tribal People: Poverty Illiteracy, Indebtedness, agrarian issues, exploitation study of tribal immunities in Chhattisgarh with special reference to “Oraon” “Kanwar” and “Gond”.	<ul style="list-style-type: none"> <li>Understand Social Mobility and change sensitization, Scheme of Tribal Development, Various Tribal Movement</li> <li>Understand Poverty Illiteracy, Indebtedness, agrarian issues, exploitation</li> <li>Understand tribal immunities in Chhattisgarh with special reference to “Oraon” “Kanwar” and “Gond”</li> </ul>
155	Urdu	513		
156	fgUnh lkfgR; & lkfgR; dk bfrgkl rFkk dkO;kax foospu	602	fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A	<ul style="list-style-type: none"> <li>fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A</li> </ul>
157	English Literature (Indian Writings)	603	Understand the foundational texts of Indian English literature and comprehension of the historical and cultural range of Indian writings in English.	<ul style="list-style-type: none"> <li>Understand the foundational texts of Indian English literature</li> <li>Understand the historical and cultural range of Indian writings in English.</li> </ul>
158	Economics- Statistical Methods	604	Measures of location, dispersion. The methods of Sampling and census.	<ul style="list-style-type: none"> <li>Learn measures of location dispersion</li> <li>Understand the methods of Sampling and census</li> </ul>
159	Geography of Chhattisgarh	605	The geographical scenario of Chhattisgarh, aspects of various issues of developments in the state etc.	<ul style="list-style-type: none"> <li>Establish the knowledge of Geography of Chhattisgarh</li> <li>Understand various issues of developments in the state of Chhattisgarh</li> </ul>
160	Geography – Practical		The fundamentals of surveying.	<ul style="list-style-type: none"> <li>Learn the fundamental of surveying</li> </ul>
161	Geographical of Environment	605(H)	Basic concept of Hydrosphere, Lithosphere, and Atmosphere.	<ul style="list-style-type: none"> <li>Understand the concept of Hydrosphere</li> <li>Get acquainted with the concept of Lithosphere</li> <li>Learn the concept of Atmosphere</li> </ul>



162	Geography - Practical		Map Cartography, and scale.	<ul style="list-style-type: none"> <li>Understand Map Cartography, and scale.</li> </ul>
163	History- World History - 1871 to 1945	606	International Politics and Problems between the two World Wars and efforts to maintain peace and disarmament during Pre and Post World War.	<ul style="list-style-type: none"> <li>Understand International Politics and Problems between the two World Wars</li> <li>Understand peace and disarmament during Pre and Post World War.</li> </ul>
164	History of China & Japan (1900 - 1949 AD)	606(H)	Understand the rapid growth of Japan and establishment of Communism in China.	<ul style="list-style-type: none"> <li>Learn the history of Japan</li> <li>Learn the history of China</li> <li>Understand the growth of these countries</li> <li>Understand the communism in China</li> </ul>
165	Home Science	607	Knowledge regarding various types of diabetes, Ethio- pathology, treatments and dialytic treatment.	<ul style="list-style-type: none"> <li>Learn various types of diabetes</li> <li>Understand the treatments of diabetes</li> <li>Understand Ethio- pathology, treatments and dialytic treatment.</li> </ul>
166	Home Science - Practical		Extension of Home Science in community, basic essentiality of extension workers.	<ul style="list-style-type: none"> <li>Understand basic knowledge regarding extension of Home Science in community, basic essentiality of extension workers.</li> </ul>
167	fgUnqLrkuh 'kkL=h; laxhr (urdu)	608		
168	Political Science	609	Provides the knowledge of practical part of public administration like bureaucracy, budget administration and control over administration	<ul style="list-style-type: none"> <li>Understand public administration like bureaucracy, budget administration and control over administration</li> </ul>
169	Psychology	610	Knowledge about the Prenatal, Infancy and childhood developmental Processes and factors affecting development.	<ul style="list-style-type: none"> <li>Understand basic Knowledge about the Prenatal, Infancy and childhood developmental Processes and factors affecting development.</li> </ul>
170	Psychology - Practical		Statistical analysis techniques (Mean, Mode, Median, Range, Standard Deviation, Karl person coefficient of correlation).	<ul style="list-style-type: none"> <li>Understand various statistical analysis techniques.</li> </ul>
171	laLd' r& dkO;] vyadkj rFkk fuca/k (Sanskrit)	611	egkdfO Hkkjfo jfpr o' gR=h vUrxZr egkdkO; *fdjkrktq Zuh;e~* ds izFke lxZ }kjk rRdkyhu dq"ky jktuhfr dk ifjp; ,oa jktuhfrijd lwfDr;ksa dk KkuA	<ul style="list-style-type: none"> <li>egkdfO Hkkjfo jfpr o' gR=h vUrxZr egkdkO; *fdjkrktq Zuh;e~* ds izFke lxZ }kjk rRdkyhu dq"ky jktuhfr dk ifjp; ,oa jktuhfrijd lwfDr;ksa dk KkuA</li> </ul>
172	Sociology - Methods of Social Research	612	Socio -cultural Profile: Kinship, Marriage and Family, Religions beliefs Cultural traditions	<ul style="list-style-type: none"> <li>Understand Socio -cultural Profile: Kinship, Marriage and Family, Religions beliefs Cultural traditions</li> </ul>
173	Urdu	613		
174	Botany CBCS - 1. Ethno Botany and Herbal Medicine	314	Study of pharmacognosy, basic idea of Ethno botany folk medicines, herbal medicines.	<ul style="list-style-type: none"> <li>Understand the basic idea of Ethno botany</li> <li>Learn folk medicines, herbal medicines.</li> <li>Understand Pharmacognosy of medicinally important plants.</li> <li>Prepare Assignments based on ethnic herbal medicinal.</li> </ul>
175	Inorganic, Organic & Physical Chemistry	315	Transition elements, Oxidation reduction, Coordination compounds, Alcohols and Phenols, Aldehydes and Ketones, Thermodynamics and Thermo Chemistry.	<ul style="list-style-type: none"> <li>To study the periodic properties of elements, geometry of molecules, characteristics of molecules.</li> <li>Understand the coordination compounds</li> <li>Learn the basics of thermodynamics, and thermos chemistry</li> </ul>
176	Computer	316	Computer Architecture	<ul style="list-style-type: none"> <li>Understand the fundamental concepts and techniques used in digital electronics.</li> <li>Understand and examine the structure of various number systems and its application in digital design.</li> <li>Understand, analyze and design various combinational and sequential circuits.</li> <li>Classify different semiconductor memories.</li> </ul>

				<ul style="list-style-type: none"> <li>Minimize the Boolean expression using Boolean algebra and design it using logic gates.</li> <li>Introduce the basic organization of computer system.</li> </ul>
177	Clinical Nutrition	317	Physiology & Basic Nutrition	<ul style="list-style-type: none"> <li>Understand the physiology and its structure</li> <li>Understand the basic nutrition</li> <li>Understand the need of nutrition</li> </ul>
178	Hepato Nutrition	317(H)	Anatomy and physiology of liver, various Hepatic diseases and their treatments	<ul style="list-style-type: none"> <li>Understand the hepatic dysfunction</li> <li>Learn and understand the nutritional assessment</li> <li>Understand the hepatic care</li> </ul>
179	Food & Quality Control- Food Preservation, Sensory Evolution & Food Packaging	318	Provide knowledge regarding technology of food preservation of microbiological attacks.	<ul style="list-style-type: none"> <li>Understand technology of food preservation</li> <li>Learn sensory Evolution and food packaging</li> <li>Learn how to protect food from microbial attacks</li> </ul>
180	Mathematics	319	Advanced Calculus & Differential Equation -I	<ul style="list-style-type: none"> <li>To solve the differential equation by power series Frobeniens method.</li> <li>To solve Bessel's, Legendre's equation.</li> <li>Familiar with generating function recurrence relation.</li> <li>To solve orthogonality strum- Liouville problem.</li> <li>To find Laplace transform.</li> <li>To find inverse Laplace transform.</li> <li>To apply shifting theorem to solve problems.</li> <li>To solve differential equation with the help of Laplace transform.</li> </ul>
181	Physics	320	Thermodynamics, kinetic theory and statistical physics	<ul style="list-style-type: none"> <li>Understand the nature law</li> <li>Analyses of zero<sup>th</sup> law of thermodynamics and entropy.</li> <li>Understanding the low temperature physics.</li> <li>Analyses thermal conductivity and black body radiation.</li> <li>Understanding the statistical method</li> </ul>
182	Zoology	321	Anatomy, Physiology, Evolution	<ul style="list-style-type: none"> <li>Understand Comparative anatomy and Physiology</li> <li>know and appreciate complexity of vertebrate structure evolved from lower to higher strata.</li> <li>Learn Various Physiological processes for different habitat conditions</li> <li>Evolution: to understand evidences and theories of evolution</li> <li>Understanding variation which is the basis of evolution, causes of variation.</li> </ul>
183	Botany	414	<b>Ecology and Systematic Botany</b>	<ul style="list-style-type: none"> <li>Get the Knowledge of ecosystem, plant communities, phytogeography, ecological factories and pollution study.</li> <li>Understand Hydrophytes and Xerophytes and approaches to the plant collection.</li> <li>Learn Taxonomic description and Modern taxonomy.</li> </ul>
184	Botany - Practical		General importance of Botany in day -to -day human and animal life.	Practical aspects and knowledge of cell division and growth of plants.
185	Chemistry	415	Lanthanides, Actinides, Acids, Bases, Non-aqueous solvents, Hard and Soft acids and bases, Organic Compounds of Nitrogen, Heterocyclic Compounds, Phase equilibrium, Electrochemistry.	<ul style="list-style-type: none"> <li>To study the fundamentals of reaction mechanism, aromaticity, stereochemistry, synthesis and applications of various organic compounds.</li> </ul>
186	Chemistry - Practical		Electrochemistry	<ul style="list-style-type: none"> <li>To develop skills in different laboratory analytical works and handling instruments.</li> </ul>
187	Computer Science	416	Introduction to Data Structure and OOPS	<ul style="list-style-type: none"> <li>Understand the basic terminology used in computer programming.</li> <li>Use different data types in a computer program.</li> <li>Use different types of data structures, operations and algorithms.</li> <li>Implement appropriate sorting/searching</li> </ul>

				<ul style="list-style-type: none"> <li>• technique for any given problem.</li> </ul>
188	Computer Science - Practical		Develop logics which will help them to create programs.	<ul style="list-style-type: none"> <li>• Learn and understand logics to create programs</li> <li>• Practice the fundamental programming methodologies in the C++ programming language.</li> <li>• Code, test, and implement a well-structured, robust computer program using the C++ programming language.</li> </ul>
189	Clinical Nutrition	417	Basic Dietetics & Community Nutrition	<ul style="list-style-type: none"> <li>• To provide knowledge regarding basic nutritional composition of diet, their role in human body, Community diseases due to nutritional deficiencies and their remedy.</li> </ul>
190	Clinical Nutrition - Practical		Nutritional composition of diet, deficiencies, and their remedy.	<ul style="list-style-type: none"> <li>• Understand nutritional composition of diet, deficiencies, and their remedy.</li> </ul>
191	Cardio Nutrition	417(H)	Physiology of heart.	<ul style="list-style-type: none"> <li>• Understand the physiology of heart.</li> </ul>
192	Cardio Nutrition - Practical		Cardiac cycle, nutrition for heart, ECG etc.	<ul style="list-style-type: none"> <li>• Understand cardiac cycle, nutrition for heart, ECG etc.</li> </ul>
193	Food & Quality Control	418	Post Harvest Technology & Analytical Instrumentation	<ul style="list-style-type: none"> <li>• knowledge regarding minimizing post-harvest nutritional losses and how to analyze the nutritional composition of various foods</li> </ul>
194	Food & Quality Control - Practical		Nutritional composition of various foods	<ul style="list-style-type: none"> <li>• Analyse the nutritional composition of various foods</li> </ul>
195	Mathematics	419	Advanced Calculus & Differential Equation -II	<ul style="list-style-type: none"> <li>• To solve differential equations of first order.</li> <li>• To solve equation with Lagrange's and Charpit's method.</li> <li>• To solve D. E of second and higher orders.</li> <li>• To classify D. E., reducible to equation with constant Coefficient.</li> <li>• To define proximity, maximal's, external.</li> <li>• To solve boundary value problem with the help of Euler's Lagrange's equation.</li> </ul>
196	Physics	420	Wave, acoustic and optics	<ul style="list-style-type: none"> <li>• Analyze waves and oscillations.</li> <li>• Study the basic properties and production of ultrasonic by different methods.</li> <li>• Understand the natural behavior of aberration in lens</li> <li>• Study the theory and experiment of interference using air wedge, Newton's rings and Michelson interferometer</li> <li>• Study the theory and experimental past of diffraction by Fresnel's and Fraunhofer methods.</li> <li>• Study the theories for production of polarization of light.</li> </ul>
197	Physics - Practical		Study the theory and experiment of interference using air wedge, Newton's rings and Michelson interferometer	<ul style="list-style-type: none"> <li>• demonstrate an understanding of the analytical methods required to interpret and</li> <li>• Analyze results and draw conclusions as supported by their data.</li> </ul>
198	Zoology	421	Immunology	<ul style="list-style-type: none"> <li>• Understanding the way in which body defends itself against invading organisms or internal invaders</li> <li>• Understanding component of immune system, Innate and acquired immunity, mechanisms involved in the development of immunity</li> <li>• Basic knowledge of Immune technology</li> </ul>
199	Zoology - Practical	421	Understanding component of immune system, Innate and acquired immunity, mechanisms involved in the development of immunity	<ul style="list-style-type: none"> <li>• Develop skills and abilities in practical work, handling instruments in laboratory experiments</li> </ul>
200	CBCS	421	Economic Zoology	<ul style="list-style-type: none"> <li>• To learn applied aspect of Zoology</li> <li>• Study various culture methods, and apply this knowledge for economic gains.</li> </ul>
201	CBCS	421	Wildlife Conservation and Management	<ul style="list-style-type: none"> <li>• Study of wild life and its conservation</li> <li>• Knowledge of Wild life Legislation – Wild Protection act - 1972, its amendments and implementation.</li> <li>• Protected areas National parks &amp; sanctuaries,</li> </ul>

				<ul style="list-style-type: none"> <li>Community reserve; Important features of protected areas in India; Tiger conservation</li> </ul>
202	Botany	514	Knowledge of tissue, normal and abnormal secondary growth, embryology and cultivation of major cereals pulses, vegetables, spices and medicinal plant of CG state.	<ul style="list-style-type: none"> <li>Knowledge of tissue, normal and abnormal secondary growth, embryology and cultivation of major cereals pulses vegetables spices timber and medicinal plants of Chhattisgarh state.</li> <li>Learn Embryological slide preparation.</li> <li>Learn Plants collection.</li> <li>Understand Internal structure of Dicot and Monocot root stem and leaf etc.</li> </ul>
203	Inorganic, Organic & Physical Chemistry	515	Knowledge of Organometallic compounds, Bioinorganic Chemistry, Amino acids and peptides, Proteins and nucleic acids, Physical and magnetic properties, Raman Spectra, photochemistry.	<ul style="list-style-type: none"> <li>Explain organometallic compound</li> <li>Define Bioinorganic Chemistry, Amino acids and peptides, Proteins and nucleic acids</li> <li>Develop critical skills</li> </ul>
204	CBCS- 1. Analytical Chemistry		Polymer, Organic Polymer, Inorganic polymers, Synthetic Drugs, Synthetic dies.	Polymer, Organic Polymer, Inorganic polymers, Synthetic Drugs, Synthetic dies.
205	2. Synthetic Organic Chemistry		Organometallic chemistry, Bioinorganic chemistry, Amino acids and peptides, Proteins and Nucleic acids.	Organometallic chemistry, Bioinorganic chemistry, Amino acids and peptides, Proteins and Nucleic acids.
206	3. Selective Topics in Chemistry		Error in Chemical analysis, Chromatography, Analysis of water, Titrimetric methods of analysis, solubility equilibria, Electro analytical methods.	Chromatography, Analysis of water, Titrimetric methods of analysis, solubility equilibria, Electro analytical methods.
207	Computer	516	System Analysis and Designing	<ul style="list-style-type: none"> <li>Introduce established and evolving methodologies for the analysis, design and development of an information system.</li> <li>Understand system characteristics, managing projects, prototyping.</li> <li>Understand and plan systems development life cycle phases.</li> <li>Analyze a programming problem and design an appropriate solution using a combination of tools and techniques.</li> </ul>
208	Clinical Nutrition	517	Nutrition for Health & Fitness - Nutritional requirements, endurance and nutrition.	<ul style="list-style-type: none"> <li>Understand sports related activities and their nutritional requirements, endurance and nutrition.</li> </ul>
209	Renal Nutrition	525(H)	Treatments of various renal diseases	<ul style="list-style-type: none"> <li>Gain knowledge regarding kidney, anatomy and physiology, renal activities, treatments for various renal diseases. Dialysis and renal replacements, renal cancer.</li> </ul>
210	Food & Quality Control	518	Food analysis and Food Toxicology	<ul style="list-style-type: none"> <li>Understand technology of food analysis and naturally toxicants in foods</li> </ul>
211	Mathematics	519	Analysis & Algebra -I	
212	Physics	520	Relativity, quantum mechanics, Atomic Molecular and nuclear physics	<ul style="list-style-type: none"> <li>Understand the negative result of Michelson Morley experiment, Galilean and Lorentz transformation.</li> <li>Learn the mathematical tools needed to solve quantum mechanics problems.</li> <li>This will include complex functions and Hilbert spaces.</li> <li>Analyze the ideas of basics of nucleus and their energy.</li> <li>Perform the procedures for nuclear fission and fusion.</li> </ul>
213	Zoology	521	Vertebrates, Endocrinology, Reproductive Biology Behaviour Toxicology, Microbiology Medical Zoology	<ul style="list-style-type: none"> <li>Endocrine and Reproductive biology – basic knowledge of endocrine glands, structure, Biosynthesis, effect of hormones, and mode of action</li> <li>Behavior- general idea of animal behavior, from simple taxis to complex behavior</li> <li>Toxicology- general idea of toxicants, metallic,</li> </ul>

				<ul style="list-style-type: none"> <li>nonmetallic, from plant and animal source. Effect of toxicant and treatment</li> </ul>
214	Botany	614	Knowledge of plant water relation, growth regulators, light, and temperature effect and fundamentals of Biotechnology.	<ul style="list-style-type: none"> <li>Knowledge of plant water relation, metabolism, growth regulators, light and temperature effect</li> <li>Understand fundamentals of Biotechnology.</li> </ul>
215	Botany - Practical		Develop skills and abilities in Practical work.	<ul style="list-style-type: none"> <li>Terminology, phenomenon, concepts and classification of plants and its scientific importance.</li> <li>Introduction and awareness of the related flora (Biodiversity)</li> </ul>
216	Chemistry	615	Metal ligand bonding in transition metal complexes, Thermodynamic, and kinetic aspects of metal complexes, Electronic spectra of complexes, organo sulphur compounds, carbohydrates, fundamentals of spectroscopy and quantum mechanism.	<ul style="list-style-type: none"> <li>Knowledge of Metal ligand bonding in transition metal complexes,</li> <li>Understand Thermodynamic and kinetic aspects of metal complexes,</li> <li>Learn Electronic spectra of complexes, Organa Sulphur compounds, Carbohydrates,</li> <li>Learn Fundamentals of spectroscopy and Quantum mechanism.</li> </ul>
217	Chemistry - Practical		Chromatography, Analysis of water, Titrimetric methods of analysis, Solubility equilibria, Electro analytical methods.	<ul style="list-style-type: none"> <li>Analysis of water, Titrimetric methods of analysis, Solubility equilibria,</li> <li>Analytical methods of Electro</li> </ul>
218	Computer Science	616	Data Base Management Systems & Web Technology	<ul style="list-style-type: none"> <li>Learn and practice data modeling using the entity relationship and developing database designs.</li> <li>Apply normalization techniques to normalize the database.</li> <li>Design data base and normalize data and understand how query are being processed and executed.</li> <li>Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access</li> <li>Understand types of Data Base failures and Recovery.</li> </ul>
219	Computer Science - Practical		Design data base and normalize data and understand how query are being processed and executed.	<ul style="list-style-type: none"> <li>Practice SQL programming through a variety of database problems.</li> <li>Demonstrate the use of concurrency and transactions in database</li> <li>Design and build database applications for real world problems.</li> </ul>
220	Clinical Nutrition- Clinical Nutrition & Advanced Dietetics	617	Clinical Dietetics- dietary treatments of all diseases.	<ul style="list-style-type: none"> <li>To provide complete knowledge of dietary treatments of all diseases.</li> </ul>
221	Clinical Nutrition - Practical		Knowledge about anatomy and physiology of various organs.	<ul style="list-style-type: none"> <li>can plan for normal and therapeutic condition of patient by using food exchange list, and by making therapeutic modification of normal meal.</li> </ul>
222	Diabeto Nutrition	625(H)	Knowledge regarding diabetic treatments	<ul style="list-style-type: none"> <li>Knowledge regarding various types of Diabetes, etiopathology, treatments dietetic treatments</li> </ul>
223	Diabeto Nutrition - Practical		Diabeto nutrition- knowledge about various types of Diabetes.	<ul style="list-style-type: none"> <li>knowledge about various types of Diabetes.</li> </ul>
224	Food & Quality Control- Food Manufacturing, Adulteration & Testing	618	Food Manufacturing, Adulteration, and Testing.	<ul style="list-style-type: none"> <li>To provide knowledge regarding food production technology and adulteration , testing of adulterants</li> <li>Understand Etiopathology, treatments etc</li> </ul>
225	Food & Quality Control - Practical		Etiopathology, treatments etc	<ul style="list-style-type: none"> <li>Develop capacity to work in different food unit as food developer, also in microbiology labs</li> <li>Identify food toxicant s and do remedy accordingly</li> </ul>
226	Mathematics - CBCS	619	Analysis & Abstract Algebra -II	<ul style="list-style-type: none"> <li>To understand the metric space properties and able to verify whether a given function is metric.</li> </ul>
227	Mathematics - CBCS	619	Programming in C and Numerical Analysis	<ul style="list-style-type: none"> <li>To explain the geometric meaning of metric.</li> <li>To distinguish between open and closed balls.</li> <li>To define convergence for sequence in a m s.</li> <li>Continuity of a function between two m s.</li> <li>To understand contraction principle, dense,</li> </ul>

228	Mathematics - CBCS	619		<ul style="list-style-type: none"> <li>subsets, separable space.</li> <li>To understand FIP, continuous function, compact set.</li> <li>To understand FIP, continuous function, compact set.</li> <li>To explain linear transformation and their representation as matrices.</li> <li>To find the rank and mobility.</li> <li>To find the basis.</li> <li>To evaluate Eigen values at Eigen vector of LT</li> <li>To formation of inner product spaces</li> <li>To distinguish the orthogonal set</li> <li>To orthogonalize the finite dimensional vector spaces.</li> </ul>
			Mathematical Modelling	
229	Physics	620		<ul style="list-style-type: none"> <li>Understand the basic concepts of force between atoms and bonding between molecules</li> <li>Analyze the relationship between conductors and insulators and superconductivity</li> <li>Understand the properties of matter and classifications -polarization</li> <li>Understand the properties of semiconductors</li> <li>Analyze the relationship between semiconductors devices and understand the applications of semiconductor devices</li> </ul>
			Solid state physics, solid state devices and electronics	
230	Physics - Practical		Analyse the relationship between semiconductors devices and understand the applications of semiconductor devices	<ul style="list-style-type: none"> <li>Demonstrate a thorough understanding of the analytical approach to modelling of physical phenomena.</li> </ul>
231	Zoology- Genetics, Cell Physiology, Biochemistry, Biotechnology, Biotechniques	621		<ul style="list-style-type: none"> <li>Genetics- knowledge of classical genetics, genetic interactions and Basic genetics at molecular level</li> <li>Biochemistry Structure of Bio-molecules, and their metabolism to understand fate of these molecules within the body and their significance</li> <li>Biotechnology – basic techniques used in biotechnology and application of biological organisms or processes for manufacture of useful products</li> </ul>
			Genetics, Cell Physiology, Biochemistry, Biotechnology, Bio-techniques	
232	Zoology - Practical		Biochemistry Structure of Bio-molecules, and their metabolism	<ul style="list-style-type: none"> <li>Understand fate of these molecules within the body and their significance</li> </ul>
233	Corporate Accounting	322		<ul style="list-style-type: none"> <li>To develop awareness about corporate accounting in conformity with the provisions of companies' act.</li> <li>To gain understanding of students with the basics of principles of management.</li> <li>To help students understand the conceptual framework of cost and management audit.</li> <li>To expose the students to the basic concepts on the tools used in cost accounting.</li> </ul>
			To provide basic knowledge of the provisions of companies Act 1956 and Act 2013, along with relevant case law.	
234	Cost & Management Auditing	322(H)		<ul style="list-style-type: none"> <li>Understand the conceptual framework of cost and management audit.</li> </ul>
			To help students understand the conceptual framework of cost and management audit.	
235	Principle of Business Management	323(i)		<ul style="list-style-type: none"> <li>Understand the basics of principles of management</li> </ul>
			To gain understanding of students with the basics of principles of management.	
236	Business Statistics	324(i)		<ul style="list-style-type: none"> <li>Learn managerial accounting career skills</li> <li>Understand quantitative and qualitative knowledge for career in business</li> </ul>
			learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future career in business.	
237	Cost Accounting	422		<ul style="list-style-type: none"> <li>To provide basic knowledge of the provisions of companies Act 1956 and Act 2013, along with relevant case law.</li> <li>To provide exposure to the students to the entrepreneurial culture and industrial growth so as to preparing them to set up and manage their own small units.</li> <li>To develop the ability of creating Web-pages and</li> </ul>
			To provide exposure to the students to the entrepreneurial culture and industrial growth so as to preparing them to set up and manage their own small units.	

				<ul style="list-style-type: none"> <li>designing business websites among students.</li> <li>To help students understand the conceptual framework of specialized accounting.</li> </ul>
238	Specialized Accounting	422(H)	To help students understand the conceptual framework of specialized accounting.	<ul style="list-style-type: none"> <li>Understand the conceptual framework of specialized accounting</li> </ul>
239	Company Law	423	To provide basic knowledge of the provisions of companies Act 1956 and Act 2013, along with relevant case law.	<ul style="list-style-type: none"> <li>Understand the provisions of companies Act 1956 and Act 2013, along with relevant case law.</li> </ul>
240	Business Organization	423(CB)	To develop effective business communication skills among the students.	<ul style="list-style-type: none"> <li>Understand business communication skills</li> </ul>
241	Fundamental of Entrepreneurship	424(i)	To develop the ability of creating Web-pages and designing business websites among students.	<ul style="list-style-type: none"> <li>Understand creating Web-pages and designing business websites</li> </ul>
242	Income Tax	522	To enable the students to know the basics of income tax and its applications.	<ul style="list-style-type: none"> <li>Understand the basics of income tax and its applications</li> </ul>
243	Financial Management and Control	522(H)	To help students understand the conceptual framework of financial management.	<ul style="list-style-type: none"> <li>Understand the conceptual framework of financial management.</li> </ul>
244	Auditing	523	To impart the knowledge about the principle and methods of auditing and their applications.	<ul style="list-style-type: none"> <li>Understand the principle and methods of auditing and their applications</li> </ul>
245	Fundamental of Insurance	524(i)	To enable the students to know the fundamentals of insurance.	<ul style="list-style-type: none"> <li>Understand the fundamentals of insurance</li> </ul>
246	Indirect Tax	622	Aims at Imparting basic knowledge about major indirect taxes levied by central and state government.	<ul style="list-style-type: none"> <li>Understand the basic knowledge about major indirect taxes levied by central and state government.</li> </ul>
247	Financial Market Services	622(H)	To acquaint the students with the working of financial markets in India.	<ul style="list-style-type: none"> <li>Understand the working of financial markets in India</li> </ul>
248	Management Accounting	623	To provide the students an understanding of the application of accounting techniques for management	<ul style="list-style-type: none"> <li>Understand the application of accounting techniques for management</li> </ul>
249	Indian Banking System	624(i)	To enable the students to know the working of the Indian Money and Banking system.	<ul style="list-style-type: none"> <li>Understand the working of the Indian Money and Banking system.</li> </ul>
250	Computer Financial Accounting	224 (II)	Develop awareness about corporate accounting in conformity with the provisions of companies' act.	<ul style="list-style-type: none"> <li>Understand corporate accounting in conformity with the provisions of companies' act.</li> </ul>
251	Practical		To introduce the students the basic of accounts and usage of tally for accounting purpose	<ul style="list-style-type: none"> <li>Learn the basic of accounts and usage of tally for accounting purpose</li> </ul>
252	Internet Applications & E commerce	324(ii)	The paper imparts understanding of the concepts and various application issues of e-business like Internet infrastructure	<ul style="list-style-type: none"> <li>Understand the concepts and various application issues of e-business like Internet infrastructure</li> </ul>
253	Relational DBMS	424(ii)	To inculcate knowledge of DBMS concepts	<ul style="list-style-type: none"> <li>Understand the knowledge of DBMS concepts</li> </ul>
254	Practical		To develop the competence of database management.	<ul style="list-style-type: none"> <li>Understand to develop the competence of database management</li> </ul>

255	Programming in Visual Basics	524(ii)	To impart the knowledge about the principle and methods of auditing and their applications.	<ul style="list-style-type: none"> <li>Understand the basic knowledge about the principle and methods of auditing and their applications.</li> </ul>
256	System Analysis Design & MIS	624(ii)	To inculcate the knowledge on computer-based information system MIS support for the functions of management	<ul style="list-style-type: none"> <li>Understand the basic knowledge on computer-based information system MIS support for the functions of management</li> </ul>
257	Practical		To make students aware about information system concepts and features.	<ul style="list-style-type: none"> <li>Learn about information system concepts and features</li> </ul>
258	Family Resource Management	326	Understand the family resources for proper management	<ul style="list-style-type: none"> <li>Understand the family resources for proper management</li> </ul>
259	Community Development, Perspectives & Approaches, Socio-economic Analysis of Communities.	327	Learn the management system for smooth functioning in the community and their perspectives to develop socially.	<ul style="list-style-type: none"> <li>Learn the management system for smooth functioning in the community and their perspectives to develop socially.</li> </ul>
260	Extension Education	425	Understand the scenario and the basic requirements through extension activities.	<ul style="list-style-type: none"> <li>Understand the scenario and the basic requirements through extension activities</li> </ul>
261	Practical		To make aware of the needs of the local people and to understand the requirements.	<ul style="list-style-type: none"> <li>Understand the needs of the local people</li> <li>Understand the requirements</li> </ul>
262	Practical		To gain knowledge regarding kidney, anatomy and physiology, renal activities, treatments for various renal diseases. Dialysis and renal replacements, renal cancer	<ul style="list-style-type: none"> <li>Understand the basic knowledge regarding kidney, anatomy and physiology, renal activities, treatments for various renal diseases. Dialysis and renal replacements, renal cancer</li> </ul>
263	Foundation of Art & Design	426	Understand the changing patterns in art and design	<ul style="list-style-type: none"> <li>Understand the changing patterns in art and design</li> </ul>
264	Practical		learn to create new patterns	<ul style="list-style-type: none"> <li>learn to create new patterns</li> </ul>
265	Personal Empowerment & Computer Basics	427	Understand the learning tools through the basic computer fundamentals in the area.	<ul style="list-style-type: none"> <li>Understand the learning tools through the basic computer fundamentals in the area.</li> </ul>
266	Practical		learn the basics of digital printing.	<ul style="list-style-type: none"> <li>learn the basics of digital printing</li> </ul>
267	CBCS - 1. Guidance & Counselling		Learn to guide and to read the stress level and to counsel	<ul style="list-style-type: none"> <li>Learn to guide and to read the stress level and to counsel</li> </ul>
268	2. Early Childhood Care & Education		Study the mental state of child and their behaviour to cure and counsel	<ul style="list-style-type: none"> <li>Understand the mental state of child and their behaviour to cure and counsel</li> </ul>
269	Nutritional Biochemistry	525	To provide knowledge regarding minimizing post-harvest nutritional losses and how to analyse the nutritional composition of various foods	<ul style="list-style-type: none"> <li>Understand the knowledge regarding minimizing post-harvest nutritional losses</li> <li>Learn the nutritional composition of various foods</li> </ul>
270	Early Childhood Care and Education	526	Gather knowledge regarding deficiencies in early childhood and their remedies.	<ul style="list-style-type: none"> <li>Gather knowledge regarding deficiencies in early childhood and their remedies</li> </ul>
271	Foundation of Art and Design	527	Basics of art and design to create new trends in the field of art and design.	<ul style="list-style-type: none"> <li>Understand Basics of art and design to create new trends in the field of art and design</li> </ul>
272	Nutritional Management in Health & Disease	625	– To provide knowledge regarding various metabolic cycle, biochemistry of structural molecules of human body, Detoxication, Hormones, Enzymes, common microbes and related diseases, microbiology of various foods	<ul style="list-style-type: none"> <li>Understand various metabolic cycle, biochemistry of structural molecules of human body</li> <li>Understand Detoxication, Hormones, Enzymes, common microbes and related diseases</li> <li>Understand Microbiology of foods</li> </ul>



273	Practical		To provide complete knowledge of dietary treatments of all diseases.	<ul style="list-style-type: none"> <li>Understand the dietary treatments of all diseases</li> </ul>
274	Practical		Learn the basic dietetic treatments.	<ul style="list-style-type: none"> <li>Learn the basic dietetic treatments.</li> </ul>
275	Apparel Making & Fashion Designing	626	Technique and methods of apparel designing	<ul style="list-style-type: none"> <li>Learn the Technique and methods of apparel designing</li> </ul>
276	Practical		Basic understanding of making apparel	<ul style="list-style-type: none"> <li>Understand the basic of making apparel</li> </ul>
277	Communication Process in Development	627	Skill enhancement in the process of communication.	<ul style="list-style-type: none"> <li>Understand Skill enhancement in the process of communication</li> </ul>
278	Practical		learn to develop presentation of work	<ul style="list-style-type: none"> <li>learn to develop presentation of work</li> </ul>
279	Calculus & Statistical Method	328	The basic concepts of graph theory and some related theoretical problems.	<ul style="list-style-type: none"> <li>Understand the basic concepts of graph theory and some related theoretical problems</li> </ul>
280	Digital Electronics & Microprocessor	329	Number systems, codes, number of literals etc.	<ul style="list-style-type: none"> <li>Understand different Number systems, codes, number of literals etc.</li> </ul>
281	Computer Network	330	Understand various guided transmission media.	<ul style="list-style-type: none"> <li>Understand various guided transmission media.</li> </ul>
282	Data Structure	331	Fundamental concepts of Data structures, non- linear data structure trees and graphs, and implement their operations.	<ul style="list-style-type: none"> <li>Understand fundamental concepts of Data structures, non- linear data structure trees and graphs, and implement their operations.</li> </ul>
283	Object Oriented Programming Using C++	428	Understand and apply object -oriented features and C++ concepts.	<ul style="list-style-type: none"> <li>Understand and apply object -oriented features and C++ concepts.</li> </ul>
284	Practical		Learn to develop applications using Console I/O and File I/O	<ul style="list-style-type: none"> <li>Learn to develop applications using Console I/O and File I/O</li> </ul>
285	Computer Graphics & Multimedia	429	Learn the Computer Graphics display technologies.	<ul style="list-style-type: none"> <li>Learn the Computer Graphics display technologies.</li> </ul>
286	Practical		The Line clipping and Polygon Clipping techniques and to demonstrate the 3D transformation concepts to model an object.	<ul style="list-style-type: none"> <li>Learn to apply the Line clipping and Polygon Clipping techniques</li> <li>Learn to demonstrate the 3D transformation concepts to model an object.</li> </ul>
287	Computer Organization & Architecture	430	Design of a basic computer, address sequencing, and microprogramming concepts.	<ul style="list-style-type: none"> <li>Understand the design of a basic computer, address sequencing, and microprogramming concepts.</li> </ul>
288	Practical		Principles of parallel processing and advanced computer architectures.	<ul style="list-style-type: none"> <li>Understand the Principles of parallel processing and advanced computer architectures.</li> </ul>
289	Principles of Information Management	431	Designing and developing various IT skills.	<ul style="list-style-type: none"> <li>Understand the designing and developing various IT skills.</li> </ul>
290	Practical		Learn to use the Systems analysis Design paradigm.	<ul style="list-style-type: none"> <li>Learn to use the Systems analysis Design paradigm.</li> </ul>
291	Numerical Analysis	428	Numerical methods to obtain approximate solutions to mathematical problems.	<ul style="list-style-type: none"> <li>Learn to apply numerical methods to obtain approximate solutions to mathematical problems.</li> </ul>
292	Software Engineering and Project Management	429	Acquire strong fundamental knowledge in computer science, software engineering and multidisciplinary engineering.	<ul style="list-style-type: none"> <li>Acquire strong fundamental knowledge in computer science, software engineering and multidisciplinary engineering.</li> </ul>
293	Database Design and RDBMS	430	Understand the major DBMS components and their function.	<ul style="list-style-type: none"> <li>Understand the major DBMS components and their function.</li> </ul>
294	Introduction to AI and Expert System	431	Learn to do the various logic programs with PROLOG	<ul style="list-style-type: none"> <li>Learn various logic programs with PROLOG</li> </ul>
295	Net Technology	628	Learn about MS.NET developed by Microsoft	<ul style="list-style-type: none"> <li>Learn about MS.NET developed by Microsoft</li> </ul>
296	Practical		Understand the use of XML in C#. NET specifically ADO.NET and	<ul style="list-style-type: none"> <li>Understand the use of XML in C#. NET specifically ADO.NET and SQL server.</li> </ul>

			SQL server.	
297	Data Mining & Data Warehousing	629	Understand the concepts of data warehouse and data mining.	<ul style="list-style-type: none"> <li>Understand the concepts of data warehouse and data mining.</li> </ul>
298	Practical		Learn to use data pre-processing techniques to build data warehouse	<ul style="list-style-type: none"> <li>Learn to use data pre-processing techniques to build data warehouse</li> </ul>
299	Current Trends & Techniques in Computer Science	630	Understand the concepts of new trends in market for storing and analysing data.	<ul style="list-style-type: none"> <li>Understand the concepts of new trends in market for storing and analysing data</li> </ul>
300	Practical		Understand the basic principles and applications of grid computing.	<ul style="list-style-type: none"> <li>Understand the basic principles and applications of grid computing.</li> </ul>
301	Network Security & Cyber Technology	631	Understand the techniques and algorithms for message authentication: MAC, Digital Signatures and Hash functions.	<ul style="list-style-type: none"> <li>Understand the techniques and algorithms for message authentication</li> </ul>
302	Practical		Familiarise with network security designs using available secure solutions such as PGP, SSL, IPSec, etc.	<ul style="list-style-type: none"> <li>Familiarise with network security designs using available secure solutions such as PGP, SSL, IPSec, etc.</li> </ul>
303	Basics of Writing Skill in English	601-A	Learn the basics of writing skills in English	<ul style="list-style-type: none"> <li>Learn the basics of writing skills in English</li> </ul>
304	Translation Proficiency	601-B	Learn the techniques and basics of translation	<ul style="list-style-type: none"> <li>Learn the techniques and basics of translation</li> </ul>
305	Urdu Writing & Speaking	601-C	Understand the basics of Urdu language	<ul style="list-style-type: none"> <li>Understand the basics of Urdu language</li> </ul>
306	Baking	601-D	Understand the various methods of baking.	<ul style="list-style-type: none"> <li>Understand the various methods of baking.</li> </ul>
307	Fundamentals of Computer	601-E	Learn the basics of computer	<ul style="list-style-type: none"> <li>Learn the basics of computer</li> </ul>
308	Tally & E-Commerce	601-F	Learn to develop applications of tally.	<ul style="list-style-type: none"> <li>Learn to develop applications of tally.</li> </ul>
309	Foundation of Library & Information Science T	601-G	Perspective and tools of management, information technology education and other area to libraries-collection, organization, preservation and dissemination of information resources and political economy of information	<ul style="list-style-type: none"> <li>Understand tools of management, information technology education</li> <li>Understand organization, preservation and dissemination of information resources and political economy of information</li> </ul>
310	Knowledge Organisation Information Processing and Retrieval (T)	601-H	To develop proficiency is using Dewey decimal classification to construct class number for document of different disciplines/subject.	<ul style="list-style-type: none"> <li>Understand using Dewey decimal classification to construct class number for document of different disciplines/subject.</li> </ul>
311	Knowledge Organisation Information Processing and Retrieval P	601-I	Compile book numbers and be able to use index of the classification scheme.	<ul style="list-style-type: none"> <li>Learn to use index of the classification scheme</li> </ul>
312	Information Technology Basics (T)	601-J	Plan and implement automation in library housekeeping operations and services. · Evaluate various library management software.	<ul style="list-style-type: none"> <li>Plan and implement automation in library housekeeping operations and services</li> <li>Understand various library management software.</li> </ul>
313	Information Technology Basics (P)	601-K	Identify and state the feature of telecommunication channels, modes, media, modulation, standard and protocol.	<ul style="list-style-type: none"> <li>Understand the feature of telecommunication channels, modes, media, modulation, standard and protocol.</li> </ul>
314	Information Sources and Services T	601-L	Explore, collate and facilitate access to the electronic resources, such as e-journals, eBooks, databases and institutional repositories.	<ul style="list-style-type: none"> <li>Learn access to the electronic resources, such as e-journals, eBooks, databases and institutional repositories.</li> </ul>

315	Management of Library & Information Centre T	601- M	help in inculcating effective managerial skill among stakeholders for successfully managing modern libraries using vibrant human resource management techniques, financial resources management skills.	<ul style="list-style-type: none"> <li>Understand managerial skill among stakeholders for successfully managing modern libraries</li> <li>Understand human resource management techniques, financial resources</li> </ul>
316	Survey Report ++	601- N	Manage, preserve, and provides access to various print and non-print information sources.	<ul style="list-style-type: none"> <li>Learn various print and non-print information sources.</li> </ul>
317	Viva-Voce	601- O	Elaborate principles and function of management.	<ul style="list-style-type: none"> <li>Learn principles and function of management</li> </ul>
318	DEMAND& PRO. ANALYSIS IN MICRO ECO	701	Learn to apply economic theories and methodologies in analysing economic issues.	<ul style="list-style-type: none"> <li>Understand economic theories and methodologies</li> </ul>
319	ECONOMIC GROWTH & PLANNING IN INDIA	702	Economic growth, Capital output ratio, input-output analysis and cost benefit analysis.	<ul style="list-style-type: none"> <li>Understand modern economic growth, obstacles to economic growth and the measurement of economic development</li> <li>Understand the capital output ratio, input-output analysis and cost benefit analysis.</li> </ul>
320	QUANTITATIVE METHODS	703	The concept of corelation, analysis, and interpret covariance and correlation coefficient. Central tendency, dispersion and skewness. Concept of probability	<ul style="list-style-type: none"> <li>Understand the concept of corelation, analysis, and interpret covariance and correlation coefficient.</li> <li>Collect appropriate data needed, manipulate and draw</li> <li>Know how to calculate Index number and its importance in economics.</li> </ul>
321	HUMAN DEVELOPMENT INFRASTRUCTURE IN INDIAN ECONOMY	704	Knowledge of the need, component and objective of Human Development in India. The role of infrastructure and transportation in shaping and improving the economic performance of the country	<ul style="list-style-type: none"> <li>Understand component and objective of Human Development in India.</li> <li>Understand the importance of capital formation in India and the role of foreign capital</li> <li>Understand the role of infrastructure and transportation in shaping and improving the economic performance of the country</li> </ul>
322	DEMOGRAPHY	705	The theories of population, about fertility, mentality, and Nuptiality.	<ul style="list-style-type: none"> <li>Understand the theories of population, about fertility, mentality, and Nuptiality.</li> </ul>
323	PRICING AND DISTRIBUTION ANALYSIS IN MICRO ECONOMICS	801	Frame work for learning about markets, perfect completion, monopoly, monopolistic completion, algology, and duopoly Micro economics theory in a local, regional, and international scenario.	<ul style="list-style-type: none"> <li>Understand introductory micro economics theory in a local, regional, and international scenario</li> <li>Understand about welfare economics, Linear programming and game theory.</li> </ul>
324	THEORIES OF ECONOMIC GROWTH AND DEVELOPMENT	802	Various theories of Economic Growth. Neo-classical theories and partial theories of development.	<ul style="list-style-type: none"> <li>Understand the various theories of economic growth.</li> <li>Understand the Neo-classical theories and partial theories of development and its applicability in the planning of India.</li> </ul>
325	STATISTICS, RESEARCH METHODOLOGY AND COMPUTER APPLICATION	803	Statistics Research Methodology & Computer Application Importance of research methodology and research design	<ul style="list-style-type: none"> <li>Learn to calculate time series, and the association of attributes.</li> <li>Understand the importance of research methodology and research design.</li> <li>Identify the important conditions conducive to the formulation of hypothesis.</li> <li>Learn the classification and tabulation of data.</li> <li>Learn the basics of computer which are important in modern times</li> </ul>
326	SECTORAL AND ECONOMIC REFORMS IN INDIA	804	Economic policies in shaping and improving economic performance in agriculture, manufacturing and services.	<ul style="list-style-type: none"> <li>Understand the overall development and engine of growth in agriculture, draw distinctive features of rural economy.</li> <li>Understand the role of economic policies in shaping and improving economic performance in agriculture, manufacturing and services.</li> </ul>

327	POPULATION DYNAMICS & POPULATION POLICY IN INDIA	805	Population Dynamics & Population Policy in India Prepare tables and study census in India.	<ul style="list-style-type: none"> <li>Understand the census in India.</li> <li>Understand the population policy in India and the family planning strategies and their outcomes.</li> </ul>
328	VIVA VOCE		Learn the classification and tabulation of data.	<ul style="list-style-type: none"> <li>Learn the classification and tabulation of data.</li> </ul>
329	Theory Of Money	901	Quantity theory of money fishers, concept of multiplier, and acceleration.	<ul style="list-style-type: none"> <li>Understand the quantity theory of money Fishers and Cambridge equation.</li> <li>Understand the concept of multiplier and acceleration.</li> <li>Understand the theory of inflation, business cycles and the meaning, objectives and instruments of monetary and fiscal policies.</li> </ul>
330	International Trade and Tariffs	902	Learn about the pure theory of international trade.	<ul style="list-style-type: none"> <li>Understand the composition as well as direction of foreign trade and the causes of deficits in the balance of payments, measures adopted to correct the deficits</li> </ul>
331	Public Economics	903	Introduce the nature and theories of public goods and private goods. Issues related to the government in the changing era and the justification for government intervention. Theory of public choice. Taxation and budgetary policy.	<ul style="list-style-type: none"> <li>Understand the issues related to the government in the changing era and the justification for government intervention.</li> <li>Understand the nature and theories of public goods and private goods.</li> <li>Understand the various aspects of the theory of public choice.</li> <li>Understand the recent trends in taxation and budgetary policy.</li> </ul>
332	History of Economic Thought (classicism to scientific Socialism.)	904	Learn about mercantilist and physiocrats their growth and downfall.	<ul style="list-style-type: none"> <li>Acquire knowledge about the thoughts of various economists from classism to scientific socialism.</li> <li>know about mercantilist and physiocrats, their growth and downfall</li> </ul>
333	Environmental Economics	905	Learn the importance and influence of environment on the economy. Causes of Environmental pollution	<ul style="list-style-type: none"> <li>Realize the importance and influence of environment on the economy.</li> <li>Understand the causes of environmental pollution; suggest appropriate measure to correct environmental degradation.</li> </ul>
334	MACRO ECONOMICS	1001	Consumption and Investment function. functioning of a complicated modern economic system	<ul style="list-style-type: none"> <li>Understand how economy is moving as a whole.</li> <li>know consumption and investment function and their determinants.</li> <li>Understand the functioning of a complicated modern economic system.</li> </ul>
335	INTERNATIONAL MONETARY SYSTEM & TRADE REFORMS IN INDIA	1002	International organisation UNCTAD, IMF, IBRD - Organization, functions, achievements, and failures. Public Finance and Fiscal Policy in India	<p>Understand the nature and scope of international economics.</p> <ul style="list-style-type: none"> <li>Understand the international organization UNCTAD, IMF, IBRD, their organization, functions, achievements and failures.</li> <li>Gain knowledge about commercial treaties.</li> <li>Explain trade problems and trade policies in India</li> </ul>
336	PUBLIC FINANCE AND FISCAL POLICY IN INDIA	1003	Different types of budgets such as balanced and unbalanced budget, capital and revenue budget, zero based budgeting, the objectives and components of fiscal policy	<p>Understand the principles of federal finance.</p> <ul style="list-style-type: none"> <li>Understand the objectives and components of fiscal policy, describe the role of fiscal policy in the economic development of India.</li> <li>Understand the government budget;</li> </ul>
337	MODERN ECONOMIC THOUGHT	1004	The marginalist approach and the justification of mathematical models to describe consumer and firm behavior, Historical consciousness of economic ideas. Views of Naoroji Ranade, Gokhale, Gandhiji and Amartya Sen.	<p>Understand the process by which an economic theory becomes part of the body of knowledge in economics.</p> <ul style="list-style-type: none"> <li>Have historical consciousness of economic ideas.</li> <li>Gain knowledge about Indian Economic Thought – the views of Naoroji Ranade, Gokhale, Gandhiji and Amartya Sen.</li> </ul>
338	LABOUR ECONOMICS WITH SPECIAL REFERENCE TO INDIA	1005	Basic theoretical models in the labour economic literature. Labor market policies of governments, unions, and other factors in the labor markets.	<ul style="list-style-type: none"> <li>Have the ability to formally analyze the policy related issues in labor economics.</li> <li>Evaluate and enter the labor market policies of governments, unions, and other factors in the labor markets.</li> </ul>

339	VIVA VOCE		Evaluate the labour market policies of government, unions, and other factors in the labour markets.	<ul style="list-style-type: none"> <li>Understand the labor market policies of government, unions, and other factors in the labor markets.</li> </ul>
340	LITERATURE IN ENGLISH (A) 1550-1660	706	The political, social, economic, and intellectual background of literature in English between 1550-1660.	<ul style="list-style-type: none"> <li>Understand the political, economic, social, and intellectual background of literature in English between 1550-1660.</li> <li>Understand the work of John Donne, Francis Bacon, William Shakespeare, Thomas Browne, Machiavelli, and Christopher Marlowe</li> </ul>
341	LITERATURE IN ENGLISH (A) 1660-1798	707	The political, social, economic, and intellectual background of literature in English between 1660-1798.	<ul style="list-style-type: none"> <li>Understand the political, economic, social, and intellectual background of literature in English between 1660-1798.</li> <li>Understand the work of John Dryden, Addison, Steele, Pope, Congreve, and Swift</li> </ul>
342	LITERATURE IN ENGLISH (A) 1798-1914	708	The political, social, economic, and intellectual background of literature in English between 1798-1914.	<ul style="list-style-type: none"> <li>Understand the basic knowledge of the political, economic, social, and intellectual background of literature in English between 1798-1914</li> <li>Understand the work of William Wordsworth, Shelley, John Keats, Henrik Ibsen, Robert Lynd, and Hazlitt</li> </ul>
343	LITERATURE IN ENGLISH (A) 1914-2000	709	The political, social, economic, and intellectual background of literature in English between 1914-2000.	<ul style="list-style-type: none"> <li>Understand the political, economic, social, and intellectual background of literature in English between 1914-2000</li> <li>Understand the work of Sarojini Naidu, Auden, Sri Aurobindo, T.S.Eliot, Munshi Premchand, and Bertrand Russel</li> </ul>
344	LITERATURE IN ENGLISH {B} [1550-1660]	806	The political, social, economic, and intellectual background of literature in English between 1550-1660.	<ul style="list-style-type: none"> <li>Understand the works of William Shakespeare and John Milton.</li> <li>Understand the knowledge of the political, economic, social, and intellectual background so as to enable to study the works of representatives of the period.</li> </ul>
345	LITERATURE IN ENGLISH {B} [1660-1798]	807	The political, social, economic, and intellectual background of literature in English between 1660-1798.	<ul style="list-style-type: none"> <li>The political, economic, social, and intellectual background of literature in English between 1660-1798.</li> <li>Understand the works of William Blake, Thomas Gray, William Collins, Oliver Goldsmith, Henry Fielding, and Daniel Defoe.</li> </ul>
346	LITERATURE IN ENGLISH {B} [1798-1914]	808	The political, social, economic, and intellectual background of literature in English between 1798-1914.	<ul style="list-style-type: none"> <li>Understand the political, economic, social, and intellectual background of literature in English between 1798-1914.</li> <li>Understand the works of Alfred Tennyson, Robert Browning, Charles Lamb, A.G.Gardiner, John Galsworthy, and Charles Dickens</li> </ul>
347	LITERATURE IN ENGLISH {B} [1914-2000]	809	The political, social, economic, and intellectual background of literature in English between 1914-2000.	<ul style="list-style-type: none"> <li>The political, economic, social, and intellectual background of literature in English between 1914-2000.</li> <li>Understand the works of Dylan Thomas, Philip Larkin, W.B.Yeats, T.S.Eliot, S.Radhakrishnan, and Arundhati Roy.</li> </ul>
348	VIVA VOCE		Exposure to expert views and global trends in the areas of literary and cultural theories.	<ul style="list-style-type: none"> <li>Understand global trends in the areas of literary and cultural theories</li> </ul>
349	LINGUISTICS SEMANTICS & GRAMMAR	906	Linguistics, Semantics, and Grammar. Linguistic competence	<ul style="list-style-type: none"> <li>Understand the broad areas of Linguistics, Semantics, and Grammar.</li> <li>Understand linguistic competence and performance of the students</li> </ul>
350	PRINCIPLES OF LITERARY CRITICISM (Classical of Romantic)	907	The Classical critics and build in the aesthetics of English Literature.	<ul style="list-style-type: none"> <li>Understand the classical critics and the main critics in the English critical tradition.</li> <li>Understand the works of Bharat Muni, Aristotle, Longinus, Philip Sidney, Samuel Johnson, P.B.Shelley, and Mathew Arnold</li> </ul>
351	INDIAN WRITING IN ENGLISH(POETRY & PROSE)	908	Political, economic, social, and intellectual background in Indian English literature. Major Indian writers writing in English Appreciating literary texts and developing skills in literary analysis.	<ul style="list-style-type: none"> <li>Understand the work of major Indian writers writing in English – Ravindranath tagore, Toru Dutt, Nissim Ezekiel, Gandhi, Nehru and Nirad C.Choudhary etc.</li> <li>Understand the political, economic, social, and intellectual background in Indian English literature.</li> <li>Understand literary texts and developing skills in literary analysis.</li> </ul>

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352	American Literature	909	History of American Literature. The American Writers as representatives of the period.	<ul style="list-style-type: none"> <li>Understand the American literature and the works of Ralph W.Emerson, Arthur Miller, Walt Whitman, and H.D.Thoreau.</li> <li>Understand the political, economic, social, and intellectual background of literature in English as representatives of America.</li> </ul>
353	LINGUISTICS & GRAMMAR (PHONETICS & PHONOLOGY, STYLISTICS)	1006	Linguistics and Grammar (Phonetics, Phonology, and Stylistics) The basic concepts and methods in stylistics	<ul style="list-style-type: none"> <li>Understand the basic concepts and methods in stylistics</li> <li>The broad areas of Linguistics, Semantics, and Grammar – Phonetics and phonology.</li> </ul>
354	LITERARY CRITICISM & THEORY	1007	The key critics, critical terms, and concepts in the English critical tradition.	<ul style="list-style-type: none"> <li>To understand the critics and theorists.</li> <li>To understand the works of T.S.Eliot, I.A.Richards, Cleanth Brooks, Ernest Jones, Ronald Barthes, Michael Foucault, and Homi.K.Bhabha.</li> </ul>
355	INDIAN WRITING IN ENGLISH (DRAMA & FICTION)	1008	Understand major Indian writers writing in English and learn the political, economic, social, and intellectual background	<ul style="list-style-type: none"> <li>Understand Ravindranath Tagore, Kalidas, Girish Karnad, Vijay Tendulkar, Arvind Adiga, and Kamala Markandya.</li> </ul>
356	AMERICAN LITERATURE	1009	American writers and their major works.	<ul style="list-style-type: none"> <li>Understand writers like Emily Dickinson, Robert Frost, William Faulkner, Eugene O' Neill, William Carlos William, and Edgar Allan Poe.</li> </ul>
357	VIVA VOCE		Understand and critically evaluate the writers of all ages.	<ul style="list-style-type: none"> <li>Understand and critically evaluate the writers of all ages.</li> </ul>
358	GEOMORPHOLOGY	710	Basic structure of the land forms and its origin.	<ul style="list-style-type: none"> <li>Basic structure of the land forms and its origin.</li> </ul>
359	CLIMATOLOGY	711	The weather phenomena, climate of the region, causes of variation of elements etc.	<ul style="list-style-type: none"> <li>Understand the weather phenomena, climate of the region, causes of variation of elements</li> </ul>
360	EVOLUTION OF GEOGRAPHICAL THOUGHT	712	The landmarks in the development of geographic thought at different period of time.	<ul style="list-style-type: none"> <li>Understand the landmarks in the development of geographic thought at different period of time</li> </ul>
361	ADVANCE GEOGRAPHY OF INDIA	713	It provides the detail knowledge of India.	<ul style="list-style-type: none"> <li>Understand the detail knowledge of India.</li> </ul>
362	PRACTICAL		The global warming and climate change, philosophical ad methodological foundations of the subject.	<ul style="list-style-type: none"> <li>Understand the global warming and climate change, philosophical ad methodological foundations of the subject</li> </ul>
363	APPLIED GEOMORPHOLOGY	810	The physical phenomena of geomorphic process and its practical approaches.	<ul style="list-style-type: none"> <li>Understand the physical phenomena of geomorphic process and its practical approaches</li> </ul>
364	OCEANOGRAPHY	811	The facets of oceans, evolution of ocean, physical and chemical properties of the sea water, atmospheric and oceanographic circulation. Marine environment, its characteristics and its impact on costal economy	<ul style="list-style-type: none"> <li>Understand the facets of oceans, evolution of ocean, physical and chemical properties of the sea water, atmospheric and oceanographic circulation.</li> <li>Understand the marine environment, its characteristics and its impact on costal economy.</li> </ul>
365	GEOGRAPHICAL METHODOLOGY	812	The various conceptual thoughts, Location theory, Central place, Land use etc.	<ul style="list-style-type: none"> <li>The various conceptual thoughts, Location theory, Central place, Land use etc.</li> </ul>
366	ADVANCE GEOGRAPHY OF INDIA WITH SPECIAL REFERENCE TO CHHATTISGARH	813	The regional features of the state of CG, and connect the students to understand the geographical aspects of the state.	<ul style="list-style-type: none"> <li>Understand the regional features of the state of CG,</li> <li>Understand the geographical aspects of the state.</li> </ul>
367	PRACTICAL		Fundamental requirement or the students of the state	

			which helps in the preparation of competitive examination.	<ul style="list-style-type: none"> <li>Understand Fundamental requirement of the state which helps in the preparation of competitive examination.</li> </ul>
368	GEOGRAPHY OF RURAL SETTLEMENT	910	The growth and evolution of rural settlement.	<ul style="list-style-type: none"> <li>Understand the growth and evolution of rural settlement.</li> </ul>
369	GEOGRAPHY OF RESOURCES	911	The concept and approaches of natural resources.	<ul style="list-style-type: none"> <li>Understand the concept and approaches of natural resources</li> </ul>
370	REGIONAL PLANNING & DEVELOPMENT	912	Learn to make a planning for the urban land use.	<ul style="list-style-type: none"> <li>Learn to make a planning for the urban land use.</li> </ul>
371	ENVIRONMENTAL GEOGRAPHY	913	Understand the environmental problems.	<ul style="list-style-type: none"> <li>Understand the environmental problems.</li> </ul>
372	PRACTICAL - I		Practical observation of earth surface, land forms, and other physical and huma activity.	<ul style="list-style-type: none"> <li>Understand earth surface, land forms, and other physical and huma activity.</li> </ul>
373	POPULATION GEOGRAPHY	1010	The complex dimensions of population, and the population crises of India.	<ul style="list-style-type: none"> <li>Understand the complex dimensions of population, and the population crises of India</li> </ul>
374	URBAN GEOGRAPHY	1011	Understand the process of urbanization and origin, growth and classification of urban settlement with relevant theories and models.	<ul style="list-style-type: none"> <li>Understand the process of urbanization and origin, growth and classification of urban settlement with relevant theories and models.</li> </ul>
375	AGRICULTURAL GEOGRAPHY	1012	Familiarie with the concept, origin, and development of agriculture.	<ul style="list-style-type: none"> <li>Understand the concept, origin, and development of agriculture.</li> </ul>
376	GEOGRAPHY OF TOURISM	1013	Orients the students to the logistics of tourism.	<ul style="list-style-type: none"> <li>Understand the logistics of tourism.</li> </ul>
377	PRACTICAL - I		Remote sensing and GIS	
378	PRACHIN KAVYA	714	हिन्दी साहित्य के आदिकालीन काव्य का परिचय, मध्यकालीन काव्य का परिचय और तत्कालिन सांस्कृतिक, साहित्यिक, ऐतिहासिक आदि परंपराओं का अध्ययन विवेचन।	<ul style="list-style-type: none"> <li>हिन्दी साहित्य के आदिकालीन काव्य का परिचय, मध्यकालीन काव्य का परिचय और तत्कालिन सांस्कृतिक, साहित्यिक, ऐतिहासिक आदि परंपराओं का अध्ययन विवेचन।</li> </ul>
379	CHHAYAVAD EVAM RASHTRIYA KAVYADHARA	715	छायावाद के पश्चात् की महत्वपूर्ण काव्य धाराएँ और महत्वपूर्ण कवियों-रचनाओं का अध्ययन-विवेचन।	<ul style="list-style-type: none"> <li>छायावाद के पश्चात् की महत्वपूर्ण काव्य धाराएँ और महत्वपूर्ण कवियों-रचनाओं का अध्ययन-विवेचन।</li> </ul>
380	HINDI NATAK EVAM NIBANDH SAHITYA	716	हिन्दी गद्य साहित्य की महत्वपूर्ण विधाओं में नाटक एवं निबंध की महत्वपूर्ण रचनाओं व रचनाकारों का अध्ययन एवं विवेचन।	<ul style="list-style-type: none"> <li>हिन्दी गद्य साहित्य की महत्वपूर्ण विधाओं में नाटक एवं निबंध की महत्वपूर्ण रचनाओं व रचनाकारों का अध्ययन एवं विवेचन।</li> </ul>
381	BHASHA VIGYAN	717	भाषा, भाषिक व्यवस्था, भाषा संरचना आदि का भाषा वैज्ञानिक अध्ययन-विवेचन। देवनागरी लिपि का परिचय और मानकीकरण का अध्ययन।	<ul style="list-style-type: none"> <li>भाषा, भाषिक व्यवस्था, भाषा संरचना आदि का भाषा वैज्ञानिक अध्ययन-विवेचन। देवनागरी लिपि का परिचय और मानकीकरण का अध्ययन।</li> </ul>
382	HINDI SAHITYA KA ITIHAS	718	आठवी-नवीं शताब्दी से लेकर आधुनिक काल के पूर्व तक के विकास परिदृश्य के साथ साहित्यिक सृजनशीलता के विविध रूपों, प्रवृत्तियों और भाषा शैलियों का ज्ञान।	<ul style="list-style-type: none"> <li>आठवी-नवीं शताब्दी से लेकर आधुनिक काल के पूर्व तक के विकास परिदृश्य के साथ साहित्यिक सृजनशीलता के विविध रूपों, प्रवृत्तियों और भाषा शैलियों का ज्ञान।</li> </ul>
383	MADHYAKALIN KAVYA	814	हिन्दी साहित्य के "स्वर्ण युग" की समीक्षा और महत्वपूर्ण कवियों व रचनाओं का परिचय।	<ul style="list-style-type: none"> <li>हिन्दी साहित्य के "स्वर्ण युग" की समीक्षा और महत्वपूर्ण कवियों व रचनाओं का परिचय।</li> </ul>

384	CHHAYAVADOTTAR KAVYA	815	छायावाद के पश्चात् की महत्वपूर्ण काव्य धाराएँ और महत्वपूर्ण कवियों-रचनाओं का अध्ययन-विवेचन।	<ul style="list-style-type: none"> <li>छायावाद के पश्चात् की महत्वपूर्ण काव्य धाराएँ और महत्वपूर्ण कवियों-रचनाओं का अध्ययन-विवेचन।</li> </ul>
385	HINDI UPANYAAS EVAM KATHAA SAAHITYA	816	महत्वपूर्ण उपन्यासों, कहानियों और रचनाकारों की समीक्षा और युगीन संदर्भ की समझ।	<ul style="list-style-type: none"> <li>महत्वपूर्ण उपन्यासों, कहानियों और रचनाकारों की समीक्षा और युगीन संदर्भ की समझ।</li> </ul>
386	HINDI BHASHA	817	हिन्दी भाषा का ऐतिहासिक, वैज्ञानिक परिचय।	<ul style="list-style-type: none"> <li>हिन्दी भाषा का ऐतिहासिक, वैज्ञानिक परिचय।</li> </ul>
387	HINDI SAHITYA KA ITIHAAS(ADHUNIK KAAL)	818	आधुनिक वैचारिक परिदृश्य में हिन्दी कविता, हिन्दी गद्य और आलोचना का परिचय तथा विभिन्न आधुनिक काव्य प्रवृत्तियों एवं रचनाकारों का विवेचन।	<ul style="list-style-type: none"> <li>आधुनिक वैचारिक परिदृश्य में हिन्दी कविता, हिन्दी गद्य और आलोचना का परिचय तथा विभिन्न आधुनिक काव्य प्रवृत्तियों एवं रचनाकारों का विवेचन।</li> </ul>
388	VIVA VOCE		1. भाषा संस्कृति और युग की समझ विकसित करना।	<ul style="list-style-type: none"> <li>भाषा संस्कृति और युग की समझ विकसित करना।</li> </ul>
389	BHARTIYA KAVYA SHAstra	914	साहित्य के सैद्धान्तिक स्वरूप का परिचय व विवेचन	<ul style="list-style-type: none"> <li>साहित्य के सैद्धान्तिक स्वरूप का परिचय व विवेचन</li> </ul>
390	KAAMKAJI HINDI EVAM ANUWAD	915	हिन्दी के आधुनिक कामकाजी स्वरूप का परिचय, कम्प्यूटर इंटरनेट का परिचय और हिन्दी का अनुप्रयोग।	<ul style="list-style-type: none"> <li>हिन्दी के आधुनिक कामकाजी स्वरूप का परिचय, कम्प्यूटर इंटरनेट का परिचय और हिन्दी का अनुप्रयोग।</li> </ul>
391	BHARTIYA SAHITYA KA SAIDDHANTIK VIVECHANA	916	हिन्दीतर भाषाओं का साहित्य और तुलनात्मक विवेचन।	<ul style="list-style-type: none"> <li>हिन्दीतर भाषाओं का साहित्य और तुलनात्मक विवेचन।</li> </ul>
392	CG BHASHA EVAM SAHITYA KA SAIDDHANTIK SWAROOP	917	राजकीय भाषा और साहित्य की अद्यतन जानकारी व विवेचन	<ul style="list-style-type: none"> <li>राजकीय भाषा और साहित्य की अद्यतन जानकारी व विवेचन</li> </ul>
393	SAIDDHANTIK PATRAKARITA	918	साहित्य कला के साथ-साथ रोजगारपरक पत्रकारिता के क्षेत्र का समुचित अध्ययन।	<ul style="list-style-type: none"> <li>साहित्य कला के साथ-साथ रोजगारपरक पत्रकारिता के क्षेत्र का समुचित अध्ययन।</li> </ul>
394	PAASHCHAATYA KAAVYA SHAASTRA	1014	विश्वपटल पर साहित्यशास्त्र से परिचय।	<ul style="list-style-type: none"> <li>विश्वपटल पर साहित्यशास्त्र से परिचय।</li> </ul>
395	PATRAKAARITA AUR MEDIA LEKHAN	1015	पत्रकारिता और मीडिया के क्षेत्र में हिन्दी तथा प्रयोजनमूलक हिन्दी	<ul style="list-style-type: none"> <li>पत्रकारिता और मीडिया के क्षेत्र में हिन्दी तथा प्रयोजनमूलक हिन्दी</li> </ul>
396	BHARATIYA SAHITYA KI VIVIDH VIDHAAYEN	1016	हिन्दीतर साहित्य का अध्ययन और भारतीयता के सूत्रों की समझ।	<ul style="list-style-type: none"> <li>हिन्दीतर साहित्य का अध्ययन और भारतीयता के सूत्रों की समझ।</li> </ul>
397	CHHATTISGARHI KE PRATINIDHI KAVI EVAM SAAHITYAKAAR	1017	प्रादेशिक राजभाषा के साहित्य का अध्ययन।	<ul style="list-style-type: none"> <li>प्रादेशिक राजभाषा के साहित्य का अध्ययन।</li> </ul>
398	VYAVAHARIKI PATRAKARITA	1018	पत्रकारिता का संपूर्ण परिचय।	<ul style="list-style-type: none"> <li>पत्रकारिता का संपूर्ण परिचय।</li> </ul>
399	VIVA VOCE		भाषा, लिपि, व्याकरण का समग्र ज्ञान।	<ul style="list-style-type: none"> <li>भाषा, लिपि, व्याकरण का समग्र ज्ञान।</li> </ul>
400	HISTORIO. CON, METHODS & TOOLS PART-I	719	Various aspects and trends of historical writings, relation of history to other subjects and comparison of historical writing from different backgrounds.	<ul style="list-style-type: none"> <li>Understand Various aspects and trends of historical writings, relation of history</li> <li>Understand other subjects and comparison of historical writing from different backgrounds.</li> </ul>
401	HISTORY OF EUROPE 1914-1945	720	The ideas of capitalism, socialism, and liberalism.	<ul style="list-style-type: none"> <li>Understand the ideas of capitalism, socialism, and liberalism</li> </ul>
402	HISTORY OF MODERN INDIA 1757-1857	721	The sources of modern Indian history.	<ul style="list-style-type: none"> <li>Understand the sources of modern Indian history.</li> </ul>
403	POLITICAL HISTORY OF CHHATTISGARH	722	Brief regional history of Chhattisgarh.	<ul style="list-style-type: none"> <li>Understand Brief regional history of Chhattisgarh.</li> </ul>
404	HISTORIOGRAPHY CONCEPTS, METHODS & TOOLS, PART-II	819	Familiarize the students the controversial problems in Indian history.	<ul style="list-style-type: none"> <li>Understand the controversial problems in Indian history.</li> </ul>
405	TWENTIETH CENTURY WORLD	820	Political condition of the World after WW II, role of	<ul style="list-style-type: none"> <li>Understand Political condition of the World after WW II,</li> </ul>



			U.N.O. in keeping peace and disarmament in the World.	<ul style="list-style-type: none"> <li>Understand the role of U.N.O. in keeping peace and disarmament in the World.</li> </ul>
406	SOCIAL AND ECONOMIC HISTORY OF INDIA (1757-1857)	821	Social and Economic effects of British rule in India and development of revolts against foreign rule.	<ul style="list-style-type: none"> <li>Understand Social and Economic effects of British rule in India and development of revolts against foreign rule</li> </ul>
407	HISTORY OF CHHATTISGARH	822	The Princely states during British rule, folk culture, local leaders and historical place of CG.	<ul style="list-style-type: none"> <li>Understand The Princely states during British rule, folk culture, local leaders and historical place of CG.</li> </ul>
408	VIVA VOCE		Indian Civilization, Culture and Art, Architecture etc.	<ul style="list-style-type: none"> <li>Understand Indian Civilization, Culture and Art, Architecture etc.</li> </ul>
409	HISTORY OF INDIA:1858 TO 1964	919	The political and administrative continuation, and the economic effect of British rule in India.	<ul style="list-style-type: none"> <li>Understand the political and administrative continuation, and the economic effect of British rule in India.</li> </ul>
410	ECONOMIC HISTORY OF INDIA I (1757 TO 1947)	920	Compare the economy of India before and after British rule in India.	<ul style="list-style-type: none"> <li>Understand the economy of India before and after British rule in India.</li> </ul>
411	HISTORY OF ARCHITECTURE OF ANCIENT INDIA	921	The Ancient Indian Culture and religion.	<ul style="list-style-type: none"> <li>Understand the Ancient Indian Culture and religion.</li> </ul>
412	STATE IN ANCIENT INDIA	922	The polity and administration during Ancient period.	<ul style="list-style-type: none"> <li>Understand the polity and administration during Ancient period.</li> </ul>
413	MODERN INDIAN HISTORY (1858-1964)	1019	The freedom struggle, Gandhian Thought, communal politics and its origin.	<ul style="list-style-type: none"> <li>Understand the freedom struggle, Gandhian Thought, communal politics and its origin.</li> </ul>
414	ECONOMIC HISTROY OF INDIA- II (1757 TO 1947)	1020	Imperial economic effect and policies applied in India.	<ul style="list-style-type: none"> <li>Understand Imperial economic effect and policies applied in India</li> </ul>
415	HISTORY OF MEDIEVAL & MODERN ARCHITECTURE IN INDIA	1021	The culture and development of architecture in medieval and modern India.	<ul style="list-style-type: none"> <li>Understand the culture and development of architecture in medieval and modern India.</li> </ul>
416	STATE IN INDIA	1022	Administration system of sultanate and Mughal period.	<ul style="list-style-type: none"> <li>Understand Administration system of sultanate and Mughal period.</li> </ul>
417	VIVA VOCE		Collect, compare and select data for historical research and develop research skill.	<ul style="list-style-type: none"> <li>Understand and collect, compare and select data for historical research and develop research skill.</li> </ul>
418	WESTERN POLITICAL THOUGHT	723	All concepts discourse and ideologies come from the classics of political masters from Socrates Marx and recent times.	<ul style="list-style-type: none"> <li>Understand discourse and ideologies come from the classics of political masters from Socrates Marx and recent times.</li> </ul>
419	INDIAN GOVERNMENT & POLITICS	724	Constitutional development as back drop of Indian constitution	<ul style="list-style-type: none"> <li>Understand Constitutional development as back drop of Indian constitution</li> </ul>
420	COMPARATIVE POLITICS	725	Emergence of scientific and empirical study in late 19th and early 20th century in political science.	<ul style="list-style-type: none"> <li>Understand Emergence of scientific and empirical study in late 19th and early 20th century in political science</li> </ul>
421	THEORIES INTERNATIONAL POLITICS	726	The concept and approaches of international politics.	<ul style="list-style-type: none"> <li>Understand the concept and approaches of international politics.</li> </ul>
422	INDIAN POLITICAL THOUGHT	823	This course makes students familiar with knowledge and execution of Indian constitution and political system.	<ul style="list-style-type: none"> <li>Understand the execution of Indian constitution and political system.</li> </ul>
423	STATE POLITICS IN INDIA	824	The basic features, fundamental rights, directive principles of state and amendment process of the constitution.	<ul style="list-style-type: none"> <li>Understand fundamental rights, directive principles of state and amendment process of the constitution.</li> </ul>
424	POLITICS OF DEVELOPING COUNTRIES	825	Different types of governance and their comparative study. America as presidential	<ul style="list-style-type: none"> <li>Understand different types of governance and their comparative study</li> </ul>

			form, UK as parliamentary form, Switzerland as plural form and China as totalitarian form .	<ul style="list-style-type: none"> <li>Understand America as presidential form, UK as parliamentary form, Switzerland as plural form and China as totalitarian form</li> </ul>
425	CONTEMPORARY ISSUES OF POST COLD WAR	826	The political aspects of environmentalism, globalisation, and human rights.	<ul style="list-style-type: none"> <li>Understand the political aspects of environmentalism, globalisation, and human rights.</li> </ul>
426	VIVA VOCE		The approach in critical thinking and to research the subject in broad spectrum.	<ul style="list-style-type: none"> <li>Learn The approach in critical thinking and to research the subject in broad spectrum.</li> </ul>
427	PUBLIC ADMINISTRATION	923	familiarize the students to basic concepts of theoretical and practical aspects of public administration.	<ul style="list-style-type: none"> <li>Understand the basic concepts of theoretical and practical aspects of public administration.</li> </ul>
428	INDIAN FOREIGN POLICY	924	To provide students the knowledge of foreign policy and issues related to its execution.	<ul style="list-style-type: none"> <li>Understand the knowledge of foreign policy and issues related to its execution.</li> </ul>
429	INTERNATIONAL LAW	925	The international law and their working.	<ul style="list-style-type: none"> <li>Understand the international law and their working.</li> </ul>
430	INTERNATIONAL ORGANIZATION	926	The various organisation and their role in the World	<ul style="list-style-type: none"> <li>Understand the various organisation and their role in the World</li> </ul>
431	RESEARCH METHODOLOGY	1023	Prepare the students to research the subject and its aspects in a methodical manner.	<ul style="list-style-type: none"> <li>Understand to research the subject and its aspects in a methodical manner.</li> </ul>
432	THEORY AND PRACTICE OF DIPLOMACY	1024	Learn and understand the diplomacy and its practice	<ul style="list-style-type: none"> <li>Learn and understand the diplomacy and its practice</li> </ul>
433	HUMAN RIGHTS: PROBLEMS AND PROSECTS	1025	Understand the basics of Human Rights and its implication	<ul style="list-style-type: none"> <li>Understand the basics of Human Rights and its implication</li> </ul>
434	POLITICS OF INTERNATIONAL FINANCIAL INSTITUTION	1026	Provide the knowledge of practical part like budget administration and control over administration.	<ul style="list-style-type: none"> <li>Understand the knowledge of practical part like budget administration and control over administration.</li> </ul>
435	VIVA VOCE		Help the student to research in the field and to present their knowledge.	
436	CLASSICAL SOCIOLOGICAL TRADITION (A)	727	Historical, social, and economic profile of sociology.	<ul style="list-style-type: none"> <li>Understand Historical, social, and economic profile of sociology.</li> </ul>
437	THEORETICAL PERSPECTIVE IN SOCIOLOGY (A)	728	Major schools of sociology and Advance sociological theories.	<ul style="list-style-type: none"> <li>Understand Major schools of sociology and Advance sociological theories.</li> </ul>
438	METHODS OF SOCIAL RESEARCH (A)	729	importance of social research, scientific method and its logic.	<ul style="list-style-type: none"> <li>Understand importance of social research, scientific method and its logic.</li> </ul>
439	RURAL SOCIETY IN INDIA & DEMOGRAPHY (A)	730	Rural and Agrarian Societies - structure, characteristics, culture,	<ul style="list-style-type: none"> <li>Understand Rural and Agrarian Societies - structure, characteristics, culture</li> </ul>
440	CLASSICAL SOCIOLOGICAL TRADITION (B)	827	Classical theories of eminent sociologist	<ul style="list-style-type: none"> <li>Understand Classical theories of eminent sociologist</li> </ul>
441	THEORETICAL PERSPECTIVE IN SOCIOLOGY (B)	828	Recent Integrative Developments in Sociological Theory.	<ul style="list-style-type: none"> <li>Integrative Developments in Sociological Theory.</li> </ul>
442	METHODS OF SOCIAL RESEARCH (B)	829	Analyse and interpret empirical evidence in sociological research.	<ul style="list-style-type: none"> <li>Understand empirical evidence in sociological research.</li> </ul>
443	RURAL SOCIETY IN INDIA AND SOCIAL DEMOGRAPHY (B)	830	Major Agrarian movements in India.	<ul style="list-style-type: none"> <li>Understand Major Agrarian movements in India.</li> </ul>
444	VIVA VOCE		Social research, Demography, Fertility, Migration, Mortality etc.	<ul style="list-style-type: none"> <li>Understand Social research, Demography, Fertility, Migration, Mortality</li> </ul>
445	PERSPECTIVE ON INDIAN SOCIETY (A)	927	The rich heritage and culture of India - Cultural, religious, and Linguistics diversities.	<ul style="list-style-type: none"> <li>Understand The rich heritage and culture of India - Cultural, religious, and Linguistics diversities.</li> </ul>

446	SOCIOLOGY OF CHANGE & DEVELOPMENT (A)	928	The process of change and development	<ul style="list-style-type: none"> <li>Understand The process of change and development</li> </ul>
447	INDUSTRY & SOCIETY IN INDIA (A)	929	Relationship between Society and Industry. Industrialization, Industrial planning, industrial revolution and policies, Human Resources and Planning.	<ul style="list-style-type: none"> <li>Understand Relationship between Society and Industry.</li> <li>Understand Industrialization, Industrial planning, industrial revolution and policies,</li> <li>Understand Human Resources and Planning.</li> </ul>
448	CRIMINOLOGY (A)	930	The role of criminological theory as framework - Crime rates, patterns and forms of crime and changing profiles of criminals and crime.	<ul style="list-style-type: none"> <li>Understand The role of criminological theory</li> <li>Understand Crime rates, patterns and forms of crime and changing profiles of criminals and crime.</li> </ul>
449	PERSPECTIVE ON INDIAN SOCIETY (B)	1027	Indo-logical perspective, Structural Functionalism, Marxism or Conflict perspective, Civilization perspective, and Subaltern perspective.	<ul style="list-style-type: none"> <li>Understand Indo-logical perspective, Structural Functionalism,</li> <li>Understand Marxism or Conflict perspective, Civilization perspective, and Subaltern perspective.</li> </ul>
450	SOCIOLOGY OF CHANGE & DEVELOPMENT (B)	1028	Dependency theory of World system, agencies of development social policies for planned development, effect of Information Technology Revolution and Globalization on Society etc.	<ul style="list-style-type: none"> <li>Understand theory of World system, agencies of development social policies for planned development,</li> <li>Understand effect of Information Technology Revolution and Globalization on Society</li> </ul>
451	INDUSTRY & SOCIETY IN INDIA (B)	1029	Concepts of organization and theory of management, Trade unions, Manager work Organization, Participatory Management, Industrial Conflict.	<ul style="list-style-type: none"> <li>Understand Concepts of organization</li> <li>Understand theory of management, Trade unions, Manager work Organization, Participatory Management, Industrial Conflict.</li> </ul>
452	CRIMINOLOGY (B)	1030	Social corelates of crime and the distribution of crime across time and space.	<ul style="list-style-type: none"> <li>Understand Social corelates of crime and the distribution of crime across time and space</li> </ul>
453	VIVA VOCE		Theory of punishment, history of prison, in India, correctional Programmes in Prison and problems related to jail Management.	<ul style="list-style-type: none"> <li>Understand the theory of punishment</li> <li>Understand history of prison, in India,</li> <li>Understand correctional Programmes in Prison and problems related to jail Management.</li> </ul>
454	URDU DASTAN	731		
455	URDU TAREEKH JAWANE	732		
456	URDU TANQID VA NIGAR	733		
457	URDU DRAMA	734		
458	URDU RESEARCH METHODOLOGY	831		
459	TAREEKH-E-ADAB-E-URDU	832		
460	URDU TABAAT, SAHAFAT&TARJUNA	833		
461	URDU MAZMOON NIAGRI	834		
462	VIVA VOCE			
463	URDU DASTAN	931		
464	URDU TAREEKH JAWANE	932		
465	URDU TANQID VA NIGAR	933		
466	URDU DRAMA	934		
467	URDU RESEARCH METHODOLOGY	1031		
468	TAREEKH-E-ADAB-E-URDU	1032		

469	URDU TABAAT,SAHAFAT&TA RJUNA	1033		
470	URDU MAZMOON NIAGRI	1034		
471	VIVA VOCE			
472	ATTENTION AND PERCEPTUAL PROCESS	769	perception and give examples of gestalt principles and multimodal perception. Basics of hearing Basic anatomy and functions of taste, smell, touch, pain, and the vestibular sense	<ul style="list-style-type: none"> <li>• Understand sensation and perception.</li> <li>• Understand the process of vision and how people see colour and depth.</li> <li>• Understand the basics of hearing.</li> <li>• Understand the basic anatomy and functions of taste, smell, touch, pain, and the vestibular senses</li> </ul>
473	SOCIAL PSYCHOLOGY	770	Social psychology, including the fundamental attribution error, biases, social roles, and social norms, in daily life.	<ul style="list-style-type: none"> <li>• Understand aspects of social psychology, including the fundamental attribution error, biases, social roles, and social norms</li> </ul>
474	BASIC RESEARCH METHODOLOGY	771	Research Methodology helps to understand steps and procedure for selection of research problem.	<ul style="list-style-type: none"> <li>• understand steps and procedure for selection of research problem.</li> <li>• Understand analytical, interpretation and presentation skill among students.</li> <li>• sampling techniques as a method of data collection, Coding, classification, tabulation, graphical presentation, analysis and interpretation of data.</li> <li>• Understand the appropriate and systematic method for writing effective research report</li> </ul>
475	PSYCHOPATHOLOGY	772	Psychological disorders, Unipolar disorder and bipolar disorder. Schizophrenic, paranoia, dissociative disorders and other mental disorder.	<ul style="list-style-type: none"> <li>• Understand the symptoms and possible causes of schizophrenic, paranoia, dissociative disorders and other mental disorder.</li> <li>• Understand psychological disorders and also explain how they are classified</li> </ul>
476	PRACT 1		the features and characteristic symptoms of anxiety disorders, obsessive-compulsive disorder and posttraumatic stress disorder; differentiate these anxiety disorders from each other	<ul style="list-style-type: none"> <li>• Understand symptoms of anxiety disorders, obsessive-compulsive disorder and posttraumatic stress disorder;</li> </ul>
477	LEARNING MEMORY & PROBLEM SOLVING	869	Understanding of human behaviour that will support their ability to participate as informed members of the society, and to develop in them an empathetic outlook towards others and their surroundings.	<ul style="list-style-type: none"> <li>• To provide students with an understanding of human behaviour</li> <li>• Understand an empathetic outlook towards others and their surroundings.</li> </ul>
478	GROUP PROCESSES AND CULTURAL PSYCHOLOGY	870	The process of classical conditioning, reinforcement, and punishment, memory, forgetting, and memory failure.	<ul style="list-style-type: none"> <li>• Understand the process of classical conditioning, reinforcement, and punishment, memory, forgetting, and memory failure.</li> </ul>
479	ADVANCE RESEARCH METHODOLOGY	871	How societies represent controversial and important issues affecting general and worldwide community.	<ul style="list-style-type: none"> <li>• Understand how societies represent controversial and important issues affecting general and worldwide community</li> </ul>
480	PHYSIOLOGICAL PSYCHOLOGY AND HEALTH BEHAVIORS	872	Proper applications of statistical analyses for various research designs, issues, or hypotheses.	<ul style="list-style-type: none"> <li>• Understand Proper applications of statistical analyses for various research designs, issues, or hypotheses.</li> </ul>
481	PRACT 1		The basic structures of a neuron, the function of each structure, and how messages travel through the neuron.	<ul style="list-style-type: none"> <li>• Understand the function of each structure, and how messages travel through the neuron.</li> </ul>

482	Personality and Indigenous Psychology	969	To provide students with excellent and rigorous training in Psychology both theoretically and practically.	<ul style="list-style-type: none"> <li>Learn rigorous training in Psychology both theoretically and practically.</li> </ul>
483	Psychological assessment - I	970	Differentiate between personality theories. The use and purpose of common personality tests.	<ul style="list-style-type: none"> <li>Understand the use and purpose of common personality tests.</li> </ul>
484	Cognitive Psychology	971	Use of psychological test and understand the application of different test in different psychological construct.	<ul style="list-style-type: none"> <li>Understand the use of psychological test and understand the application of different test in different psychological construct.</li> </ul>
485	Clinical Psychology and Diagnosis	972	The anatomy of nervous system and the role of the endocrine systems and nervous system on human behaviour	<ul style="list-style-type: none"> <li>The anatomy of nervous system and the role of the endocrine systems and nervous system on human behaviour</li> </ul>
486	Practical		psychology mainly focuses on the assessment, diagnosis, treatment, and prevention of mental disorders.	<ul style="list-style-type: none"> <li>Learn the assessment, diagnosis, treatment, and prevention of mental disorders.</li> </ul>
487	Life Span Development	1069	The different approaches of psychotherapies and how to apply Psychotherapies on people with mental disorder.	<ul style="list-style-type: none"> <li>Learn how to apply Psychotherapies on people with mental disorder.</li> </ul>
488	Psychological assessment - II	1070	Understanding the psychological social and cognitive development of adolescence and adult hood	<ul style="list-style-type: none"> <li>Understanding the psychological social and cognitive development of adolescence and adult hood</li> </ul>
489	Psychology Cognitive Ability	1071	Understanding the nature and other description of intelligence test, ability tests and personality tests.	<ul style="list-style-type: none"> <li>Understanding the nature and other description of intelligence test, ability tests and personality tests</li> </ul>
490	Basis of Psychology Guidance, Counselling, and Psychotherapeutic Counselling	1072	Understanding cognitive abilities: concept formation, decision making, reasoning	<ul style="list-style-type: none"> <li>Understanding cognitive abilities: concept formation, decision making, reasoning</li> </ul>
491	Practical		The course material is intended to provide students with an understanding of the counsellor's roles within evolving practice environments and across the spectrum of the field of counselling Psychology.	<ul style="list-style-type: none"> <li>understanding of the counsellor's roles within evolving practice environments and across the spectrum of the field of counselling Psychology.</li> <li>Knowledge of Counselling Skills, Enhancement in self-awareness, Development of skill in using counselling techniques.</li> </ul>
492	MOLECULAR BIOLOGY & CYTOLOGY	735	To understand cellular mechanism at molecular level. Cytological slide preparation and knowledge to recombinants.	<ul style="list-style-type: none"> <li>Understand cellular mechanism at molecular level. Cytological slide preparation and knowledge to recombinants.</li> </ul>
493	BIOLOGY AND DIVERSITY OF MICRO ORGANISMS, ALGAE & FUNGI	736	To study diversity of micro- organisms and thallophytes through their classification. Study and introduction with gram positive and gram-negative bacteria water blooms study, aquatic flora and bio fertilizers.	<ul style="list-style-type: none"> <li>Understand diversity of micro- organisms and thallophytes through their classification.</li> <li>Understand gram positive and gram-negative bacteria</li> <li>Understand water blooms study, aquatic flora and bio fertilizers.</li> </ul>
494	TAXONOMY & DIVERSITY OF ANGIOSPERMS	737	Systematic position of phenerogames, classification of angiosperms with their phylogeny. Studies and knowledge of flora in lab and excursion.	<ul style="list-style-type: none"> <li>Understand systematic position of phenerogames, classification of angiosperms with their phylogeny.</li> </ul>
495	PLANT BIOCHEMISTRY & ENZYMOLOGY	738	To study energy flow, membrane transports enzymology,	<ul style="list-style-type: none"> <li>Understand energy flow, membrane transports enzymology, phytohormones, photochemistry and photosynthesis.</li> </ul>

			phytohormones, photochemistry and photosynthesis. Detail study of Chromatographic studies of pigments and soil analytical studies.	<ul style="list-style-type: none"> <li>Understand Chromatographic studies of pigments and soil analytical studies.</li> </ul>
496	PRACTICAL - I		Terminology, phenomenon, concepts and classification of plants and its scientific importance.	<ul style="list-style-type: none"> <li>Learn Terminology, phenomenon, concepts and classification of plants and its scientific importance.</li> </ul>
497	PRACTICAL – II		Application of botanical knowledge in day to day activities of life- cycle.	<ul style="list-style-type: none"> <li>Learn Application of botanical knowledge in day to day activities of life- cycle.</li> </ul>
498	CYTOLOGY & GENETICS	835	Knowledge of cell cycle and apoptosis classical genetics, genetic interactions and genetics at molecular level.	<ul style="list-style-type: none"> <li>Understand cell cycle and apoptosis classical genetics, genetic interactions and genetics at molecular level.</li> </ul>
499	BRYOPHYTA & PTERIDOPHYTA	836	Evolutionary studies of Bryophytes and pteridophytes and adaptation, habitat studies.	<ul style="list-style-type: none"> <li>Understand Evolutionary studies of Bryophytes and pteridophytes and adaptation, habitat studies.</li> </ul>
500	TAXONOMY & DIVERSITY OF GYMNOSPERMS	837	Detail study of structure and reproduction of gymnosperms, extinct gymnosperms studies.	<ul style="list-style-type: none"> <li>Understand structure and reproduction of gymnosperms, extinct gymnosperms studies.</li> </ul>
501	PLANT PHYSIOLOGY AND METABOLISM	838	Transpiration, respiration and nitrogen fixation. Flowering process, sensory photobiology and stress physiology. Chromatography and pigment separation.	<ul style="list-style-type: none"> <li>Understand transpiration, respiration and nitrogen fixation.</li> <li>Understand Flowering process, sensory photobiology and stress physiology.</li> <li>Understand Chromatography and pigment separation.</li> </ul>
502	PRACTICAL - I		Develop skills and abilities in handling of instruments during practical works.	<ul style="list-style-type: none"> <li>Develop skills and abilities in handling of instruments during practical works.</li> </ul>
503	PRACTICAL – II		Application of subject knowledge in day to day uses.	<ul style="list-style-type: none"> <li>Application of subject knowledge in day to day uses.</li> </ul>
504	PLANT DEVELOPMENT & GROWTH	935	Knowledge of seed germination and dormancy, root, shoot, leaf development and growth senescence and PCD	<ul style="list-style-type: none"> <li>Understand seed germination and dormancy, root, shoot, leaf development and growth senescence and PCD</li> </ul>
505	PLANT ECOLOGY	936	Soil and vegetation patterns and their organization, climate and climate changes, ecosystem and green revolution. Ecological and dynamical studies of biotic and abiotic components hydro sere and Xerosere.	<ul style="list-style-type: none"> <li>Understand soil and vegetation patterns and their organization, climate and climate changes, ecosystem and green revolution</li> <li>Understand Ecological and dynamical studies of biotic and abiotic components hydro sere and Xerosere.</li> </ul>
506	BIOTECHNOLOGY & TISSUE CULTURE	937	Biotechnology plant cell and tissue culture, organogenesis and embryogenesis and hybridization.	<ul style="list-style-type: none"> <li>Understand biotechnology plant cell and tissue culture, organogenesis and embryogenesis and hybridization.</li> </ul>
507	PLANT PATHOLOGY & PHYSIOLOGY OF PARASITISM	938	Fungal bacterial and viral diseases symptoms their pathogenicity and defence mechanism.	<ul style="list-style-type: none"> <li>Understand fungal bacterial and viral diseases symptoms their pathogenicity and defence mechanism.</li> </ul>
508	PRACTICAL –I		Anatomical studies through section cuttings.	<ul style="list-style-type: none"> <li>Anatomical studies through section cuttings.</li> </ul>
509	PRACTICAL- II		Elementary practical experiment and introduction with pollen culture, callus culture, milk test, hygienic test.	<ul style="list-style-type: none"> <li>Elementary practical experiment and introduction with pollen culture, callus culture, milk test, hygienic test.</li> </ul>
510	EMBRYOLOGY & PLANT RESOURCES	1035	Structure and development of male and female gametophyte vivo and vitro fertilization, seed and fruit	<ul style="list-style-type: none"> <li>Understand structure and development of male and female gametophyte</li> </ul>

			formation. Food, forage, fodder, fibre, medicinal, oil yielding, firewood, timber and NWFPs. Embryological slide preparation, technical aspects collection cereal crops, oil crops.	<ul style="list-style-type: none"> <li>Understand vivo and vitro fertilization, seed and fruit formation.</li> <li>Understand Food, forage, fodder, fiber, medicinal, oil yielding, firewood, timber and NWFPs.</li> <li>Understand Embryological slide preparation, technical aspects collection cereal crops, oil crops.</li> </ul>
511	POLLUTION & CONSERVATION OF PLANTS	1036	conservation of nature and strategies of in situ and ex situ conservation.	<ul style="list-style-type: none"> <li>Understand conservation of nature and strategies of in situ and ex situ conservation.</li> </ul>
512	BIOTECHNOLOGY - GENETIC ENGINEERING	1037	DNA technology, genetic engineering and microbial genetic manipulation. Wine production and introduction with ethical sociological benefits of biotech.	<ul style="list-style-type: none"> <li>Understand DNA technology, genetic engineering and microbial genetic manipulation.</li> <li>Understand Wine production and introduction with ethical sociological benefits of biotech.</li> </ul>
513	PATHOLOGY-DISEASES OF CROP PLANTS	1038	Knowledge of major crop plant diseases and their control. Disease eliminating and innovative ideas for crop improvements	<ul style="list-style-type: none"> <li>Understand major crop plant diseases and their control.</li> <li>Understand Disease eliminating and innovative ideas for crop improvements</li> </ul>
514	PRACTICAL –I		Dynamical and pragmatic uses of statistics and introduction to the forest and water bodies (Satrenga, Bukadams) and dirty water reservoirs.	<ul style="list-style-type: none"> <li>Dynamical and pragmatic uses of statistics and introduction to the forest and water bodies (Satrenga, Bukadams) and dirty water reservoirs.</li> </ul>
515	PRACTICAL- II		Visit to agriculture lab to observe biotechnological tools.	<ul style="list-style-type: none"> <li>Visit to agriculture lab to observe biotechnological tools.</li> </ul>
516	INORGANIC CHEMISTRY	739	Stereochemistry and bonding in main group compounds, Metal ligand bonding, electronic spectra of complexes, Symmetry and group theory in chemistry.	<ul style="list-style-type: none"> <li>To understand Stereochemistry and bonding in main group compounds, Metal ligand bonding, electronic spectra of complexes, Symmetry and group theory in chemistry.</li> </ul>
517	ORG. CHEM STEREOCHEMISTRY&PERICYCLIC REACTION	740	Reaction mechanism, Reaction intermediates, Stereochemistry, Pericyclic reactions, Molecular rearrangement.	<ul style="list-style-type: none"> <li>To understand Reaction mechanism, Reaction intermediates, Stereochemistry, Pericyclic reactions, Molecular rearrangement.</li> </ul>
518	Physical Chemistry	741	Quantum chemistry, Classical thermodynamics, Chemical dynamics, Surface chemistry and Electrochemistry	<ul style="list-style-type: none"> <li>Understand Quantum chemistry, Classical thermodynamics, Chemical dynamics, Surface chemistry and Electrochemistry</li> </ul>
519	SPECTROSCOPY&MATHEMATICS/BIO FOR CHEMIST	742	Microwave, Infrared, Raman spectroscopy, Vector, Matrix, Differential Calculations, Permutations and Probability, (For Bio Students) Cell structure function, Carbohydrates, Lipids, Amino acids, Peptides and Nucleic acid.	<ul style="list-style-type: none"> <li>Understand Microwave, Infrared, Raman spectroscopy, Vector, Matrix, Differential Calculations, Permutations and Probability, (For Bio Students) Cell structure function, Carbohydrates, Lipids, Amino acids, Peptides and Nucleic acid.</li> </ul>
520	PRACTICAL - I		The theoretical, principles and conclusion of experimental findings and an ability to analyse the data interpret the result.	<ul style="list-style-type: none"> <li>understand the theoretical, principles and conclusion of experimental findings</li> <li>Analyse the data interpret the result.</li> </ul>
521	PRACTICAL – II		Modern instrumentation for various chemical analyses.	<ul style="list-style-type: none"> <li>Learn to use modern instrumentation for various chemical analyses.</li> </ul>
522	INORGANIC CHEMISTRY	839	Metal legend equilibria, Reaction mechanism of transition Metal complexes, Metal $\pi$ -complexes, Metal cluster,	<ul style="list-style-type: none"> <li>Understand the Metal legend equilibria, Reaction mechanism of transition Metal complexes, Metal <math>\pi</math>-complexes, Metal cluster, Isopoly and Heteropoly acid and salt.</li> </ul>

			Isopoly and Heteropoly acid and salt.	
523	ORGANIC CHEMISTRY	840	Electrophonic and Nucleophilic substitution reaction, Free radical reactions and Addition reaction, Elimination reactions.	<ul style="list-style-type: none"> <li>To understand Electrophonic and Nucleophilic substitution reaction, Free radical reactions and Addition reaction, Elimination reactions.</li> </ul>
524	PHYSICAL CHEMISTRY	841	Quantum chemistry, Thermodynamics, Non-equilibrium thermodynamics, Chemical dynamics, Surface chemistry.	<ul style="list-style-type: none"> <li>Understand Quantum chemistry, Thermodynamics, Non-equilibrium thermodynamics, Chemical dynamics, Surface chemistry</li> </ul>
525	SPECTROSCOPY,DIFFRACTION METHODS & COMPUTER FOR CHEMISTS	842	Electronic, Magnetic resonance spectroscopy, X-ray diffraction, Introduction of Computer and Computer Programming in "C", Programming in Chemistry and Use of Computer programmes.	<ul style="list-style-type: none"> <li>Understand Electronic, Magnetic resonance spectroscopy, X-ray diffraction,</li> <li>Learn Introduction of Computer and Computer Programming in "C", Programming in Chemistry</li> <li>Understand the use of Computer programmes.</li> </ul>
526	PRACTICAL - I		the theoretical, principles and conclusion of experimental findings and an ability to analyse the data interpret the result.	<ul style="list-style-type: none"> <li>Understand the theoretical, principles and conclusion of experimental findings</li> <li>Analyse the data for result</li> </ul>
527	PRACTICAL – II		An ability to use modern instrumentation for various chemical analyses.	<ul style="list-style-type: none"> <li>Apply modern instruments for various chemical analysis</li> </ul>
528	APPLICATION OF SPECTROSCOPY	939	Vibrational, Electron spin resonance, Nuclear magnetic resonance of paramagnetic substances of inorganic chemistry, Ultraviolet & visible, Infra-Red, Nuclear magnetic resonance, Carbon-13 NMR, Mass spectroscopy of organic chemistry.	<ul style="list-style-type: none"> <li>Understand Vibrational, Electron spin resonance, Nuclear magnetic resonance of paramagnetic substances of inorganic chemistry, Ultraviolet &amp; visible, Infra-Red, Nuclear magnetic resonance, Carbon-13 NMR, Mass spectroscopy of organic chemistry.</li> </ul>
529	BIO-INORGANIC & BIO-PHYSICAL CHEMISTRY	940	Sodium/Potassium pump, Bioenergetics and ATP cycle, Translate and Storage of Dioxygen, Electron transfer in biology, Nitrogenase, Calcium in biology of Bio-inorganic chemistry.	<ul style="list-style-type: none"> <li>Understand Sodium/Potassium pump, Bioenergetics and ATP cycle, Translate and Storage of Dioxygen, Electron transfer in biology, Nitrogenase, Calcium in biology of Bio-inorganic chemistry.</li> </ul>
530	ENVIRONMENTAL CHEMISTRY	941	Environment, Hydrosphere, Atmosphere, Industrial pollution, Environmental Toxicology.	<ul style="list-style-type: none"> <li>Understand Environment, Hydrosphere, Atmosphere, Industrial pollution, Environmental Toxicology.</li> </ul>
531	ORGANIC CHEMISTRY of HETEROCYCLIC COMPOUNDS	942A	Nomenclature of Heterocycles, Aromatic & Non-aromatic Heterocycles, Heterocyclic synthesis, small ring & Benzo-fused five membered Heterocycles, Six membered Heterocycles with one, two & more Hetero atoms, Seven & Large membered Heterocycles of organic chemistry.	<ul style="list-style-type: none"> <li>Understand Nomenclature of Heterocycles, Aromatic &amp; Non-aromatic Heterocycles, Heterocyclic synthesis, small ring &amp; Benzo-fused five membered Heterocycles, Six membered Heterocycles with one, two &amp; more Hetero atoms, Seven &amp; Large membered Heterocycles of organic chemistry.</li> </ul>
532	PRACTICAL –I		To develop critical thinking and efficient problem-solving skills in all four basic areas of chemistry.	<ul style="list-style-type: none"> <li>To develop critical thinking and efficient problem-solving skills in all four basic areas of chemistry</li> </ul>



533	PRACTICAL- II		Rate of chemical reactions, Kinetics of complex reactions, Kinetic study in Liquid solution, Diffusion controlled reaction, Reaction on surface & solid state, Dynamics of electron transfer reactions, Reaction in solid state heterogeneous system, Measurement of rate of a chemical reaction of Physical chemistry.	<ul style="list-style-type: none"> <li>Understand Rate of chemical reactions, Kinetics of complex reactions, Kinetic study in Liquid solution, Diffusion controlled reaction,</li> <li>Understand Reaction on surface &amp; solid state, Dynamics of electron transfer reactions, Reaction in solid state heterogeneous system,</li> <li>Understand Measurement of rate of a chemical reaction of Physical chemistry.</li> </ul>
534	PHOTOCHEMISTRY & SOLID STATE CHEMISTRY	1039	Photochemical reaction, Determination of Reaction mechanism, Photochemistry of Alkenes, Photochemistry of Carbonyl & Aromatic compounds, Miscellaneous photochemical reactions of photochemistry.	<ul style="list-style-type: none"> <li>Understand Photochemical reaction, Determination of Reaction mechanism, Photochemistry of Alkenes, Photochemistry of Carbonyl &amp; Aromatic compounds, Miscellaneous photochemical reactions of photochemistry.</li> </ul>
535	BIO- ORGANIC & BIO-PHYSICAL CHEMISTRY	1040	Enzyme, Mechanism of Enzyme action, Co-enzyme chemistry, Metalloenzyme, Biotechnical application of Enzyme of Bio-inorganic chemistry.	<ul style="list-style-type: none"> <li>Understand Enzyme, Mechanism of Enzyme action, Co-enzyme chemistry, Metalloenzyme, Biotechnical application of Enzyme of Bio-inorganic chemistry.</li> </ul>
536	MEDICINAL CHEMISTRY	1041	Pharmacokinetics, Antineoplastic agents, cardiovascular drugs, Local Anti-infective drugs, Psychoactive drugs the chemotherapy of mind, Structure & Synthesis of Antibiotics.	<ul style="list-style-type: none"> <li>Understand Pharmacokinetics, Antineoplastic agents, cardiovascular drugs, Local Anti-infective drugs, Psychoactive drugs the chemotherapy of mind, Structure &amp; Synthesis of Antibiotics</li> </ul>
537	CHEMISTRY OF NATURAL PRODUCT	1042	Terpenoids, Carotenoids, Alkaloids, Steroids & Non-steroid Hormones, Plant pigment, Porphyrins of Chemistry of Natural product.	<ul style="list-style-type: none"> <li>Understand Terpenoids, Carotenoids, Alkaloids, Steroids &amp; Non-steroid Hormones, Plant pigment, Porphyrins of Chemistry of Natural product.</li> </ul>
538	PRACTICAL –I		Diffusion controlled reaction, Reaction on surface & solid state, Dynamics of electron transfer reactions, Reaction in solid state heterogeneous system, Measurement of rate of a chemical reaction of Physical chemistry.	<ul style="list-style-type: none"> <li>Understand Diffusion controlled reaction,</li> <li>Understand Reaction on surface &amp; solid state, Dynamics of electron transfer reactions,</li> <li>Understand Reaction in solid state heterogeneous system,</li> <li>Understand Measurement of rate of a chemical reaction of Physical chemistry.</li> </ul>
539	PRACTICAL- II		Food Analysis, Analysis of water pollution, Analysis of Soil, Fuel, Body fluids, Drugs of Analytical Chemistry.	<ul style="list-style-type: none"> <li>Understand Food Analysis, Analysis of water pollution, Analysis of Soil, Fuel, Body fluids, Drugs of Analytical Chemistry.</li> </ul>
540	ADVANCED ABSTRACT ALGEBRA - I	743	Field theory widely used in Algebra, number theory and many cryptographic Protocols.	<ul style="list-style-type: none"> <li>Understand Field theory widely used in Algebra, number theory and many cryptographic Protocols.</li> </ul>
541	REAL ANALYSIS - I	744	Power series are useful tools that can be used to expand other functions solve equation and applied in all areas of engineering.	<ul style="list-style-type: none"> <li>Understand power series to expand other functions</li> <li>Understand to solve equations applied in all areas of engineering</li> </ul>
542	TOPOLOGY – I	745	Topology finds applications in Physics, Economics, Networking, Computer Science and many other branches of knowledge.	<ul style="list-style-type: none"> <li>Understand Topology</li> <li>Understand to find applications in Physics, Economics, Networking, Computer Science and many other branches of knowledge.</li> </ul>

543	COMPLEX ANALYSIS - I	746	Calculate the image of circle and lines under mobius transformation.	<ul style="list-style-type: none"> <li>Calculate the image of circle and lines under mobius transformation.</li> </ul>
544	ADVANCED DISCRETE MATHEMATICS - I	747	The study of computability theory in computer science is closely related to the study of computability in mathematical logics.	<ul style="list-style-type: none"> <li>Understand computability theory in computer science</li> <li>Understand computability in mathematical logics.</li> </ul>
545	ADVANCED ABSTRACT ALGEBRA-II	843	In the field of abstract algebra, structure theorem for finitely generated modulus over PID is generalization of Fundamental Theorem of finitely generated abelian groups. It provides simple framework to understand various Canonical form results for square matrices over fields.	<ul style="list-style-type: none"> <li>Understand various Canonical form results for square matrices over fields.</li> <li>Understand Fundamental Theorem of finitely generated abelian groups</li> <li>Understand structure theorem for finitely generated modulus over PID</li> </ul>
546	REAL ANALYSIS-II	844	Function of bounded variation are used to define generalization solution of nonlinear problems involving functional, ordinary and partial differential equation in mathematics, Physics and engineering.	<ul style="list-style-type: none"> <li>Understand Function of bounded variation</li> <li>Understand generalization solution of nonlinear problems involving functional, ordinary and partial differential equation in mathematics, Physics and engineering.</li> </ul>
547	TOPOLOGY-II	845	The topic dealt in this paper serve as a foundation to facilitate students for research work in various branches of science.	<ul style="list-style-type: none"> <li>Understand research work in various branches of science.</li> </ul>
548	COMPLEX ANALYSIS-II	846	The students should learn the basic techniques of contemporary Complex Analysis in various applications such as harmonic analysis differential equations as well as in the applied disciplines.	<ul style="list-style-type: none"> <li>Learn the basic techniques of contemporary Complex Analysis in various applications such as harmonic analysis differential equations as well as in the applied disciplines.</li> </ul>
549	ADVANCED DISCRETE MATHEMATICS-II	847	Graphs are used to represent networks of communication, data organization, computational device, the flow of computation etc.	<ul style="list-style-type: none"> <li>Understand Graphs to represent networks of communication,</li> <li>Understand data organization, computational device, the flow of computation etc.</li> </ul>
550	INTEGRATION THEORY AND FUNC.ANALYSIS-I	943	Raydon Nikodym theorem can be used to prove the existence of conditional expectation for probability measures.	<ul style="list-style-type: none"> <li>Understand Raydon Nikodym theorem</li> <li>Understand the existence of conditional expectation for probability measures.</li> </ul>
551	PARTIAL DIFFERENTIAL EQUATIONS	944	Develop the skill while doing using the various problem by using integral equation in all engineering sciences.	<ul style="list-style-type: none"> <li>Develop the skill while doing using the various problem by using integral equation</li> </ul>
552	PROGRAMMING IN C(WITH ANSI FEATURES) – I	945	Understand the fundamental programming concepts and methodologies which are essential to create good C programs.	<ul style="list-style-type: none"> <li>Understand the fundamental programming concepts and methodologies</li> </ul>
553	FUZZY SETS AND THEIR APPLICATION- I	946	This paper gives an introductory idea of fuzzy sets and basic properties of fuzzy sets. This property has been introduced so that a student can fuzzify all the concepts of a crisp set. This paper acts as a tool for serving all types of	<ul style="list-style-type: none"> <li>Understand idea of fuzzy sets and basic properties of fuzzy sets.</li> <li>Understand all types of research concerned with fuzzy sets.</li> </ul>

			research concerned with fuzzy sets.	
554	OPERATION RESEARCH- I	947	Operations research utilised in allocation and distribution in project and production and facility planning, in marketing, in finance sector etc.	<ul style="list-style-type: none"> <li>Understand Operations research utilised in allocation and distribution in project</li> <li>Understand production and facility planning, in marketing, in finance sector etc.</li> </ul>
555	PRACTICAL- I		Network analysis used in construction projects based on the knowledge and experience of the past project for predicting accurately the time required for various activities during execution of project.	<ul style="list-style-type: none"> <li>Understand Network analysis used in construction projects</li> <li>Understand the past project for predicting accurately the time required for various activities during execution of project.</li> </ul>
556	INTEGRATION THEORY AND FUNCTIONAL ANALYSIS-II	1043	Hilbert space is used and functional analysis in quantum mechanics. Hilbert space support generalization of simple geometric concept like projection and change of basis from their usual finite-dimensional setting.	<ul style="list-style-type: none"> <li>Understand functional analysis in quantum mechanics.</li> <li>Understand Hilbert space support generalization of simple geometric concept</li> <li>Understand projection and change of basis from their usual finite-dimensional setting.</li> </ul>
557	PARTIAL DIFFERENTIAL EQUATIONS MECHANICS AND GRAVITATION-II	1044	concept and Newton's law and application oscillation, Lagrange's equivalent. calculus of variation to diverse problems in physics including isoperimetric problems, use of LaGrange multiplier in solving physics problems	<ul style="list-style-type: none"> <li>Understand the discipline specific knowledge in classical mechanics</li> <li>to solve problem in Applied Physics.</li> <li>understand the Lagrange's and Hamiltonian approach in classical mechanics.</li> <li>get familiarized with Poisson and Lagrange's brackets and Hamilton Jacobi equations.</li> </ul>
558	PROGRAMMING IN C( WITH ANSI FEATURES)- II	1045	Familiar with experimental techniques used in elementary practical physics.	<ul style="list-style-type: none"> <li>Understand the fundamental programming concepts and Operators, expressions to create good C programs.</li> <li>Understand the fundamental aspects of array to store data by using the C programming language.</li> <li>Understand structures and union concept for manage and storing different type of data items.</li> </ul>
559	FUZZY SETS AND THEIR APPLICATIONS- II	1046	Students study the most successful application areas of fuzzy system called fuzzy control which finds extensive use in neural network.	<ul style="list-style-type: none"> <li>learn fuzzy measure theory</li> <li>Understand research work in the field of medicine, economics, science and engineering, neural network and so on.</li> </ul>
560	OPERATION RESEARCH-II	1047	Dynamic programming used in computer network, routing, graph problems, computer vision, artificial intelligence, machine learning etc.	<ul style="list-style-type: none"> <li>Understand Dynamic programming used in computer network, routing, graph problems, computer vision, artificial intelligence, machine learning etc.</li> <li>Understand Nonlinear programming is the field of mathematical Optimization</li> </ul>
561	PRACTICAL- I		To learn how to passing parameters in the functions of the C program.	<ul style="list-style-type: none"> <li>Learn passing parameters in the functions of the C program.</li> </ul>
562	MATHEMATICAL PHYSICS	748	Learn about special type of matrices that are relevant in physics and then learn about tensors.	<ul style="list-style-type: none"> <li>Learn about Gradient, Divergence and Curl in orthogonal curvilinear and their typical applications in physics.</li> <li>Learn about special type of matrices that are relevant in physics and then learn about tensors.</li> <li>Get introduced to Special functions like Gamma function, Beta function, Delta function, Dirac delta function, Bessel functions and their recurrence relations</li> </ul>
563	CLASSICAL MECHANICS	749	Employ conceptual understanding to make predictions, and then approach the problem mathematically.	<ul style="list-style-type: none"> <li>Understand the terminology used in Classical Mechanics.</li> <li>Employ conceptual understanding to make predictions, and then approach the problem mathematically.</li> </ul>

				<ul style="list-style-type: none"> <li>Understand the important connections between theory and experiment.</li> </ul>
564	QUANTUM MECHANICS	750	This will include complex functions and Hilbert spaces, and the theory of operator algebra.	<ul style="list-style-type: none"> <li>Learn the mathematical tools needed to solve quantum mechanics problems.</li> <li>Understand complex functions and Hilbert spaces, and the theory of operator algebra.</li> <li>Understand Solutions of ordinary and partial differential equations</li> </ul>
565	ELECTRONIC DEVICES	751	Utilize the basic knowledge in mathematics, science and engineering in Electronics.	<ul style="list-style-type: none"> <li>Understand the basic knowledge in mathematics, science and engineering in Electronics.</li> <li>Construct, choose and apply the techniques, resources and modern engineering tools required for Electronics</li> </ul>
566	PRACTICAL		Construct, choose and apply the techniques, resources and modern engineering tools required for Electronics.	<ul style="list-style-type: none"> <li>Utilize a wide range of printed and electronic resources and information technologies to support their project on physical systems and present those results in the context of the current understanding of physical phenomena.</li> </ul>
567	ELECTRODYNAMICS AND PLASMA PHYSICS	848	Know that laws of reflection, refraction are outcomes of electromagnetic boundary conditions. They will also be able design dielectric coatings which act like antireflection coatings. They will be able to distinguish between a good metal and a good dielectric.	<ul style="list-style-type: none"> <li>Understand laws of reflection, refraction of electromagnetic boundary conditions.</li> <li>Able to design dielectric coatings which act like antireflection coatings.</li> <li>Able to distinguish between a good metal and a good dielectric.</li> <li>Understand special theory of relativity by including the relativistic electrodynamics.</li> <li>Understand the rather complex physical phenomena observed in plasma.</li> </ul>
568	STATISTICAL MECHANICS	849	Understand how statistics of the microscopic world can be used to explain the thermal Features of the macroscopic world.	<ul style="list-style-type: none"> <li>Understand how statistics of the microscopic world can be used to explain the thermal</li> <li>Features of the macroscopic world.</li> <li>Be able to use thermal and statistical principles in a wide range of applications.</li> <li>Learn a variety of mathematical and computer techniques.</li> </ul>
569	QUANTUM MECHANICS	850	Relativistic Quantum Mechanics using Dirac equation, Dirac matrices, The Klein Gordon equation etc. Second quantization of the Schrödinger wave field for bosons and fermions.	<ul style="list-style-type: none"> <li>Understand Approximation methods for time-independent problems like the WKB approximation</li> <li>Understand the variational equation and its application to ground state of the hydrogen and Helium atom and Perturbation theory and Interaction of an atom with the electromagnetic field</li> <li>Learn Relativistic Quantum Mechanics using Dirac equation, Dirac matrices, The Klein Gordon equation etc.</li> </ul>
570	ATOMIC AND MOLECULAR PHYSICS	851	Apply the mathematical tools developed to various quantum mechanics problems.	<ul style="list-style-type: none"> <li>Apply the mathematical tools developed to various quantum mechanics problems.</li> <li>Develop problem solving methods that will include mathematical as well as</li> <li>Numerical computations and solutions.</li> <li>Build connections between mathematical development and conceptual understanding</li> </ul>
571	PRACTICAL - I		Develop problem solving methods that will include mathematical as well as Numerical computations and solutions	<ul style="list-style-type: none"> <li>Demonstrate proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation</li> </ul>
572	CONDENSED MATTER PHYSICS	948	Explore important connections between theory, experiment, and current applications.	<ul style="list-style-type: none"> <li>Understand basic concepts and mathematical methods of condensed matter physics.</li> <li>Practice problem solving by using selected problems in condensed matter physics.</li> <li>Explore important connections between theory, experiment, and current applications.</li> <li>Develop a basis for future learning and work experience</li> </ul>
573	NUCLEAR AND PARTICLE PHYSICS	949	Student have a basic knowledge of nuclear size, shape, binding energy. etc and also the characteristics of nuclear force in detail.	<ul style="list-style-type: none"> <li>Be able to gain knowledge about various nuclear models and potentials associated.</li> <li>Acquire knowledge about nuclear decay processes and their outcomes. Have a wide understanding regarding beta and gamma decay.</li> </ul>

				<ul style="list-style-type: none"> <li>Grasp knowledge about Nuclear reactions, Fission and Fusion and their characteristic</li> </ul>
574	OPERATIONAL AMPLIFIERS&DIGITAL ELECTRONICS	950	Getting familiarized with basic integrated circuit components, its designing &packaging	<ul style="list-style-type: none"> <li>Getting familiarized with basic integrated circuit components, its designing &amp;packaging</li> <li>Understanding various operating modes of Op-amp and its linear/non-linear applications</li> <li>Designing of signal generators and low and high order filters</li> <li>Understanding and designing of multi-vibrator and power supply circuits</li> </ul>
575	ELECTRONICS AND ITS APPLICATIONS	951	Basic system design of fibre optic communication link and fundamental theory of fibre optics. Conventional tubes and the microwave tubes	<ul style="list-style-type: none"> <li>Understand basic system design of fiber optic communication link and fundamental theory of fiber optics.</li> <li>Analyze the difference between the conventional tubes and the microwave tubes for the transmission of the Enweaves.</li> <li>Acquire knowledge about the measurements to be done at microwaves.</li> <li>Acquire complete knowledge about the applications of the microwaves for Radar Communications.</li> </ul>
576	PRACTICAL - I		Analyse the difference between the conventional tubes and the microwave tubes for the transmission of the Enweaves.	<ul style="list-style-type: none"> <li>Analyse the difference between the conventional tubes and the microwave tubes for the transmission of the Enweaves.</li> </ul>
577	COMPUTATIONAL METHODS AND PROGRAMMING	1048	FORTTRAN programming, flow chart, integer and floating- point arithmetic. Method of determination of zero of Equation – iteration, Newton Rap son etc.	<ul style="list-style-type: none"> <li>Understand method of determination of zero of Equation – iteration, Newton Rap son etc.</li> <li>Get a wide knowledge of numerical methods in computational Physics that can be used to solve many problems which does not have an analytic solution</li> </ul>
578	PHYSICS OF LASERS AND LASER APPLICATIONS	1049	Assess and design of longitudinal and transverse mode of laser cavity	<ul style="list-style-type: none"> <li>Understand the different- different laser system.</li> <li>Understand the various techniques of laser spectroscopes</li> </ul>
579	DIGITAL COMMUNICATION	1050	Analyse the performance of a baseband and pass band digital communication system in terms of error rate and spectral efficiency.	<ul style="list-style-type: none"> <li>Understand the mathematical representation of noise.</li> <li>Know the use of computer communication system in digital communication</li> </ul>
580	MICROPROCESSOR	1051	Organization and internal architecture of the Intel 8085 and 8086 Assembly language programming and arithmetic.	<ul style="list-style-type: none"> <li>Aware of Memory interfacing, and different Data transfer schemes,</li> <li>Learn interfacing with peripheral I/O devices.</li> <li>Understand the programming of microprocessor</li> </ul>
581	PRACTICAL - I		Understand the programming of microprocessor.	<ul style="list-style-type: none"> <li>Understand the programming of microprocessor.</li> </ul>
582	STRUCTURE & FUNCTION IN INVERTEBRATES	752	Detail study of invertebrate architecture and its impact on function.	<ul style="list-style-type: none"> <li>Understand systematic position of invertebrate.</li> <li>Detail study of invertebrate architecture and its impact on function.</li> <li>Larval forms in invertebrate and their phylogenic significance.</li> </ul>
583	BIOSYSTEMATICS AND TAXONOMY	753	Systematic position of animals on natural scale (scale nature) principles and practice of taxonomy	<ul style="list-style-type: none"> <li>Understand systematic position of animals on natural scale (scale nature) principles and practice of taxonomy</li> <li>Understand Theories of Zoological classification, Species concept</li> </ul>
584	GENERAL & COMPARATIVE ENDOCRINOLOGY	754	Detailed study of endocrine system, mode of hormone action, biosynthesis, effect on metabolism	<ul style="list-style-type: none"> <li>Understand endocrine system, mode of hormone action, biosynthesis, effect on metabolism</li> </ul>
585	MOLECULAR CELL BIOLOGY	755	To understand cellular mechanisms at molecular level	<ul style="list-style-type: none"> <li>Understand cellular mechanisms at molecular level</li> </ul>
586	PRACTICAL - I		Understand systemic position and organization	<ul style="list-style-type: none"> <li>Understand systemic position and organization of animals</li> </ul>

			of animals through study of classification in depth.	
587	PRACTICAL – II		Understanding of life process and its implementation in real life situations.	<ul style="list-style-type: none"> <li>Understanding of life process and its implementation in real life situations</li> </ul>
588	MORPHOLOGY AND PHYSIOLOGY OF INSECTS	852	Morphology and Physiology of Insects -To study diversity of insects through their classification	<ul style="list-style-type: none"> <li>Understand Morphology and Physiology of Insects</li> </ul>
589	POPULATION GENETICS AND EVOLUTION	853	Population Genetics and Evolution- to understand interplay of genetics at population level, its effect on evolution and evolutionary processes	<ul style="list-style-type: none"> <li>Understand Population Genetics and Evolution</li> <li>Understand interplay of genetics at population level, its effect on evolution and evolutionary processes</li> </ul>
590	ANIMAL BEHAVIOUR	854	To understand basis of behaviour and how the behavioural complexities increased with animal evolution	<ul style="list-style-type: none"> <li>Understand basis of behaviour and the behavioural complexities increased with animal evolution</li> </ul>
591	TOOLS AND TECHNIQUES FOR BIOLOGY	855	Modern tools and techniques used in biology and their application in laboratory work specially in research.	<ul style="list-style-type: none"> <li>Learn modern tools and techniques used in biology and their application in laboratory work specially in research.</li> </ul>
592	PRACTICAL - I		Develop skills and abilities in practical work, handling instruments in laboratory experiments	<ul style="list-style-type: none"> <li>Develop skills and abilities in practical work, handling instruments in laboratory experiments</li> </ul>
593	PRACTICAL – II		Study the Ecological aspect of behaviour	<ul style="list-style-type: none"> <li>Study the Ecological aspect of behavior</li> </ul>
594	COMPARATIVE ANATOMY OF VERTEBRATES	952	Vertebrate anatomy to understand serial homology in vertebrate series and to appreciate how structural complexity developed through evolutionary process to cope with environmental condition.	<ul style="list-style-type: none"> <li>Understand serial homology in vertebrate series and to appreciate how structural complexity developed through evolutionary process to cope with environmental condition.</li> </ul>
595	PHYSIOLOGY OF VERTEBRATES	953	Physiological processes in vertebrates as a result can apply the knowledge in day-to-day situation.	<ul style="list-style-type: none"> <li>Understand the physiological processes in vertebrates</li> <li>Learn to apply the knowledge in day-to-day situation.</li> </ul>
596	QUANTITATIVE BIOLOGY	954	The knowledge of biostatistics for the students of biology is must as use of statistical methods in biology is increasing every day. Students apply this knowledge for post graduate as well as research purpose.	<ul style="list-style-type: none"> <li>Understand biostatistics</li> <li>Understand the use of statistical methods in biology</li> </ul>
597	ICHTHYOLOGY	955	Diversity of Pisces through their classification, structure of various organ systems and physiology as it is a most studied vertebrate.	<ul style="list-style-type: none"> <li>Understand Diversity of Pisces</li> <li>Understand classification, structure of various organ systems and physiology</li> </ul>
598	PRACTICAL -I		Cellular mechanism at molecular level	<ul style="list-style-type: none"> <li>Understand cellular mechanism at molecular level</li> </ul>
599	PRACTICAL –II		Chromatography and pigment separation.	<ul style="list-style-type: none"> <li>Understand Chromatography and pigment separation.</li> </ul>
600	GAMETE BIOLOGY & REPRODUCTIVE PHYSIOLOGY OF HUMAN BEINGS	1052	Structure and development of gametes, modern techniques for preservation of gametes.	<ul style="list-style-type: none"> <li>Understand Structure and development of gametes,</li> <li>Understand modern techniques for preservation of gametes.</li> </ul>

			Multiple Ovulation and Embryo Transfer Technology	
601	ENVIRONMENTAL PHYSIOLOGY	1053	understand how animal adopt different physiological strategies to cope various environmental conditions	<ul style="list-style-type: none"> <li>Understand how animal adopt different physiological strategies to cope various environmental conditions.</li> <li>Understand basic concept of environmental stress and strain</li> </ul>
602	POPULATION ECOLOGY	1054	Population Ecology – organisms never grow alone, therefore basic concepts applicable at population levels is understood, study of Demographic data presentation.	<ul style="list-style-type: none"> <li>Learn basic concepts applicable at population levels</li> <li>Understand study of Demographic data presentation.</li> <li>Intra-species and inter species is studied in length</li> </ul>
603	AQUACULTURE & FISHERIES	1055	Aquaculture & Fisheries - to gain knowledge of applied aspect of Ichthyology, Fish culture, prawn culture, pearl culture etc.	<ul style="list-style-type: none"> <li>Understand applied aspect of Ichthyology, Fish culture, prawn culture, pearl culture etc.</li> </ul>
604	PRACTICAL -I		Scientific terms, concepts, facts, phenomenon and their interrelationships,	<ul style="list-style-type: none"> <li>Understand the scientific terms, concepts, facts, phenomenon and their interrelationships,</li> </ul>
605	PRACTICAL –II		Biological processes at structural and functional levels	<ul style="list-style-type: none"> <li>Understand biological processes at structural and functional levels</li> </ul>
606	APPLIED HUMAN PHYSIOLOGY	956	The integrated function of all systems and grounding of nutrition science in physiology.	<ul style="list-style-type: none"> <li>Understand the integrated function of all systems and grounding of nutrition science in physiology.</li> </ul>
607	FOOD SCIENCE	957	Provide understanding about the composition of various food stuffs.	<ul style="list-style-type: none"> <li>Understand the composition of various food stuffs.</li> </ul>
608	CLINICAL & THERAPEUTIC NUTRITION	958	Effect of various diseases on nutritional status, and nutritional dietary requirements.	<ul style="list-style-type: none"> <li>Understand the effect of various diseases on nutritional status, and nutritional dietary requirements.</li> </ul>
609	RESEARCH METHODS & SCIENTIFIC WRITING	959	Statistical technique to research data for analysing and interpreting data.	<ul style="list-style-type: none"> <li>Understand to apply the statistical technique to research data for analysing and interpreting data</li> </ul>
610	PRACTICAL - I		Practical components with adequate work experience relevant at the area of experience.	<ul style="list-style-type: none"> <li>Understand Practical components with adequate work experience relevant at the area of experience.</li> </ul>
611	PRACTICAL – II		Understand to apply the statistical technique to research data	<ul style="list-style-type: none"> <li>Understand to apply the statistical technique to research data</li> </ul>
612	GERIATRIC NUTRITION & APPLIED LIFE SCIENCE	856	Nutritional needs of the elderly and dietary management to meet nutritional needs, chronic degenerative diseases and nutrition problem of elderly people.	<ul style="list-style-type: none"> <li>Understand Nutritional needs of the elderly and dietary management</li> <li>Understand chronic degenerative diseases and nutrition problem of elderly people.</li> </ul>
613	FOOD CHEMISTRY	857	The theoretical knowledge in various application and food preparations.	<ul style="list-style-type: none"> <li>Understand the theoretical knowledge in various application and food preparations.</li> </ul>
614	PROBLEMS IN HUMAN NUTRITION	858	Nutritional problems related diseases prevent among the affluent and the less privileged groups with reference to their incidence etymology and public health significance.	<ul style="list-style-type: none"> <li>Understand Nutritional problems related diseases</li> <li>Understand etymology and public health significance.</li> </ul>
615	STATISTICAL & COM APPLICATION	859	The types, tools, and methods of research and develop the ability to construct data gathering, instruments appropriate to research design	<ul style="list-style-type: none"> <li>Understand the types, tools, and methods of research</li> <li>Understand and develop the ability to construct data gathering, instruments appropriate to research design</li> </ul>

616	PRACTICAL - I		Understand and apply the appropriate statistical technique for the measurement scale and design.	<ul style="list-style-type: none"> <li>Understand and apply the appropriate statistical technique for the measurement scale and design.</li> </ul>
617	PRACTICAL – II		Biochemical and clinical manifestation, preventive, and therapeutic measures of the same.	<ul style="list-style-type: none"> <li>Understand Biochemical and clinical manifestation, preventive, and therapeutic measures</li> </ul>
618	GERIATRIC NUTRITION & APPLIED LIFE SCIENCE	1056	Nutritional needs of the elderly and dietary management to meet nutritional needs, chronic degenerative diseases	<ul style="list-style-type: none"> <li>Understand Nutritional needs of the elderly and dietary management</li> <li>Understand to manage chronic degenerative diseases</li> </ul>
619	FOOD CHEMISTRY	1057	Enables students to use the theoretical knowledge in various application and food preparations.	<ul style="list-style-type: none"> <li>Enables students to use the theoretical knowledge in various application and food preparations.</li> </ul>
620	PROBLEMS IN HUMAN NUTRITION	1058	Nutritional problems related diseases prevent among the affluent and the less privileged groups	<ul style="list-style-type: none"> <li>Nutritional problems related diseases prevent among the affluent and the less privileged groups</li> </ul>
621	STATISTICAL & COM APPLICATION	1059	To understand the types, tools, and methods of research	<ul style="list-style-type: none"> <li>Understand the types, tools, and methods of research</li> </ul>
622	PRACTICAL -I		Understand and apply the appropriate statistical technique for the measurement scale and design.	<ul style="list-style-type: none"> <li>Understand and apply the appropriate statistical technique for the measurement scale and design.</li> </ul>
623	PRACTICAL –II		Biochemical and clinical manifestation, preventive, and therapeutic measures of the same.	<ul style="list-style-type: none"> <li>Biochemical and clinical manifestation, preventive, and therapeutic measures of the same.</li> </ul>
624	EARLY CHILDHOOD CARE & EDUCATION	760	To develop the skills and techniques to plan activities in ECCE Centres of different types.	<ul style="list-style-type: none"> <li>To develop the skills and techniques to plan activities in ECCE Centres of different types.</li> </ul>
625	ADVANCED STUDY IN HUMAN DEVELOPMENT	761	To undertake an advanced study of the stages in Human Development.	<ul style="list-style-type: none"> <li>To undertake an advanced study of the stages in Human Development.</li> </ul>
626	PSYCHOLOGY OF NORMAL ADAPTION&BEHA.DIS ORDER	762	To understand the various strategies for coping stress in home and workplace.	<ul style="list-style-type: none"> <li>Understand the various strategies for coping stress in home and workplace.</li> </ul>
627	RESEARCH METHODS & SCIENTIFIC WRITING	763	To apply statistical technique to research.	<ul style="list-style-type: none"> <li>Understand statistical technique to research.</li> </ul>
628	PRACTICAL – I		Develop professional and entrepreneurial skills and in the domains of early childhood care and education	<ul style="list-style-type: none"> <li>Develop professional and entrepreneurial skills</li> </ul>
629	PRACTICAL – II		To conduct activities in early childhood care and education ad to work effectively with patents and community.	<ul style="list-style-type: none"> <li>Conduct activities in early childhood care and education and to work effectively with patents and community.</li> </ul>
630	DEVELOPMENT OF CREATIVITY	860	To understand the relevance and scope of studying creativity.	<ul style="list-style-type: none"> <li>Understand the relevance and scope of studying creativity.</li> </ul>
631	METHOD OF STUDYING HUMAN DEVELOPMENT	861	To study different methods and techniques of understanding Human Development.	<ul style="list-style-type: none"> <li>Understand methods and techniques of understanding Human Development.</li> </ul>
632	PSYCHOPATHOLOGY	862	To understand the importance of mental health in different stages of life.	<ul style="list-style-type: none"> <li>Understand the importance of mental health in different stages of life.</li> </ul>
633	STATISTICS & COMPUTER APPLICATION	863	To understand and apply the appropriate statistical technique for the	<ul style="list-style-type: none"> <li>Understand and apply the appropriate statistical technique for the measurement scale and design.</li> </ul>



			measurement scale and design.	
634	PRACTICAL – I		To apply the various methods studied in practical context	<ul style="list-style-type: none"> <li>Understand various methods studied in practical context</li> </ul>
635	PRACTICAL – II		Develop the ability to construct data gathering, instruments appropriate to research design.	<ul style="list-style-type: none"> <li>Understand data gathering, instruments appropriate to research design.</li> </ul>
636	COMMUNICATION TECHNOLOGIES	960	To develop understanding regarding the new communication technologies and their use	<ul style="list-style-type: none"> <li>Understanding the new communication technologies</li> </ul>
637	HISTORY & THEORIES OF HUMAN DEVELOPMENT	961	To understand the need or theory in Human Development.	<ul style="list-style-type: none"> <li>Understand the need or theory in Human Development.</li> </ul>
638	STUDY OF FAMILY IN SOCIETY CULTURE & PSYCHOLOGY	962	To create awareness regarding structure function needs and strengths of families with specific reference to the Indian family.	<ul style="list-style-type: none"> <li>Understand function needs and strengths of families with specific reference to the Indian family.</li> </ul>
639	PERSONS & CHILDREN WITH DISABILITIES AND ILLNESSES	963	To identify the physical and social barriers which create difficulties for people with disabilities.	<ul style="list-style-type: none"> <li>Understand the physical and social barriers which create difficulties for people with disabilities.</li> </ul>
640	PRACTICAL -I		To understand the practical applications of theory.	<ul style="list-style-type: none"> <li>Understand the practical applications of theory.</li> </ul>
641	PRACTICAL –II		To be familiar with research trends in the field of culture and families.	<ul style="list-style-type: none"> <li>Understand research trends in the field of culture and families.</li> </ul>
642	MANAGEMENT OF PROGRAMMES FOR CHILDREN & FAMILIES, MATERNAL AND CHILD NUTRITION	1060	To understand the purpose scope and challenges in the management of programmers for children and families.	<ul style="list-style-type: none"> <li>Understand the purpose scope and challenges in the management of programmers for children and families.</li> </ul>
643	CURRENT TRENDS & ISSUES IN HUMAN DEVELOPMENT	1061	To understand the importance of innovative/ new programmes in the field.	<ul style="list-style-type: none"> <li>Understand the importance of innovative/ new programmes in the field.</li> </ul>
644	MENTAL HEALTH IN DEVELOPMENTAL PROSPECTIVE	1062	To develop skills for promoting mental health across the life span.	<ul style="list-style-type: none"> <li>Understand skills for promoting mental health across the life span.</li> </ul>
645	PRINCIPLES OF GUIDANCE & COUNSELLING	1063	To understand the need for guidance and counselling in human development.	<ul style="list-style-type: none"> <li>Understand the need for guidance and counselling in human development</li> </ul>
646	PRACTICAL -I		Opportunities to work in children and family management in different settings.	<ul style="list-style-type: none"> <li>Opportunities to work in children and family management in different settings.</li> </ul>
647	PRACTICAL –II		Discuss the processes involved in counselling at different stages in life.	<ul style="list-style-type: none"> <li>Understand the processes involved in counselling at different stages in life.</li> </ul>
648	MANAGERIAL ECONOMICS	764	This course develops managerial prospective to economic fundamental as aid to decision making under given environmental constraints.	<ul style="list-style-type: none"> <li>Develops managerial prospective to economic fundamental as aid to decision making under given environmental constraints.</li> </ul>
649	MANAGEMENT THOUGHTS	765	To help students understand the conceptual framework of management and organizational behaviour.	<ul style="list-style-type: none"> <li>To help student under the conceptual framework of management and organizational behavior.</li> </ul>
650	ACCOUNTING FOR MANAGERIAL DECISIONS	766	To acquaint students with the accounting concept, tools and technique for managerial decision.	<ul style="list-style-type: none"> <li>To acquaint students with the accounting concept, tools and technique for managerial decision</li> </ul>
651	CORPORATE FINANCIAL ACCOUNTING	767	To expose students to advance accounting issues and practices such as maintenance of company	<ul style="list-style-type: none"> <li>To expose students to advance accounting issues and practices such as maintenance of company accounts, valuation of goodwill and shares and handling accounting adjustment.</li> </ul>

			accounts, valuation of goodwill and shares and handling accounting adjustment.	
652	CORPORATE LEGAL FRAMEWORK	768	To provide knowledge of relevant provisions of various laws influencing business.	<ul style="list-style-type: none"> <li>To provide knowledge of relevant provisions of various laws influencing business</li> </ul>
653	BUSINESS & ECONOMICS	864	Develops managerial prospective to economic fundamentals as aids to decision making under given environmental constraints.	<ul style="list-style-type: none"> <li>Understand to develop managerial prospective to economic fundamentals as aids to decision making under given environmental constraints.</li> </ul>
654	ORANISATIONAL BEHAVIOUR AND PRACTICES	865	To help students understand the conceptual framework of management and organizational behaviour.	<ul style="list-style-type: none"> <li>Understand the conceptual framework of management and organizational behaviour.</li> </ul>
655	FINANCIAL ANALYSIS	866	To help acquaint students with the accounting concepts, tools, techniques for managerial decision.	<ul style="list-style-type: none"> <li>Acquaint students with the accounting concepts, tools, techniques for managerial decision.</li> </ul>
656	ADVANCED ACCOUNTING	867	To expose students to advanced accounting issues and practices such as maintenance of company accounts, valuation of goodwill and shares and handling accounting adjustments.	<ul style="list-style-type: none"> <li>Understand advanced accounting issues and practices such as maintenance of company accounts, valuation of goodwill and shares and handling accounting adjustments.</li> </ul>
657	VIVA VOCE		To give students practical knowledge of filling various banking forms and opening of D-mat A/C. online banking transactions and related aspects.	<ul style="list-style-type: none"> <li>Understand practical knowledge of filling various banking forms and opening of D-mat A/C.</li> <li>Understand online banking transactions and related aspects.</li> </ul>
658	FINANCIAL INSTITUTIONS	964	This course aims at providing students with an understanding of the structure organization and working financial market and institution in India.	<ul style="list-style-type: none"> <li>Understand the structure organization and working financial market and institution in India</li> </ul>
659	PROJECT PLANNING AND ANALYSIS	965	To enable students, learn the process and issues relating to preparation, appraisal, review and monitoring of project.	<ul style="list-style-type: none"> <li>Learn the process and issues relating to preparation, appraisal, review and monitoring of project.</li> </ul>
660	INVESTMENT AND SECURITY	966	To help students understand various issues in security analysis and portfolio management.	<ul style="list-style-type: none"> <li>Understand various issues in security analysis and portfolio management.</li> </ul>
661	STATISTICAL ANALYSIS	967	The objective of this course is to make the students learn the application of statistical tools, techniques for decision making.	<ul style="list-style-type: none"> <li>Understand the application of statistical tools, techniques for decision making.</li> </ul>
662	COMPUTER APPLICAITON IN BUSINESS	968	To provide an understanding of computers, computer operating system and application of relevant software and managerial decision.	<ul style="list-style-type: none"> <li>Understand of computers, computer operating system and application of relevant software and managerial decision.</li> </ul>
663	PRACTICAL - I		Provide Application of Information technology in Business, Alternative investment management Technique etc., to meet the well trained Man Power requirements.	<ul style="list-style-type: none"> <li>Understand Information technology in Business, Alternative investment management Technique</li> </ul>

664	FINANCIAL SYSTEM AND MARKET	1064	This course aims at providing students with an understanding of structure of organization and working of financial market and institutions in India.	<ul style="list-style-type: none"> <li>Understand structure of organization and working of financial market and institutions in India.</li> </ul>
665	PROJECT CONTROL AND APPRAISALS	1065	To enable students, learn the process and issues relating to preparation, appraisal, review and monitoring of projects.	<ul style="list-style-type: none"> <li>Understand the process and issues relating to preparation, appraisal, review and monitoring of projects.</li> </ul>
666	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	1066	To make students learn the application of statistical tools techniques for decision making.	<ul style="list-style-type: none"> <li>Understand statistical tools techniques for decision making.</li> </ul>
667	ADVANCED STATISTICAL METHODS	1067	To acquaint the students with the research and methodology of research in the field of commerce and Management.	<ul style="list-style-type: none"> <li>Understand methodology of research in the field of commerce and Management.</li> </ul>
668	RESEARCH METHODOLOGY IN COMMERECE	1068	To make students to do research in the field of Commerce & Management and make a report.	<ul style="list-style-type: none"> <li>Understand to do research in the field of Commerce &amp; Management and make a report.</li> </ul>
669	PROJECT - I		The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank Manager, Cost Accountant, Academicians, Project management, Research Analysts, and overall Administration abilities of the company.	<ul style="list-style-type: none"> <li>Understand various aspects acquiring skills for Marketing Manager, Sales Manager, Bank Manager, Cost Accountant, Academicians, Project management, Research Analysts, and overall Administration abilities of the company.</li> </ul>
670	Tourism: Certificate Course Paper - I	250	principles and practices of Tourism	<ul style="list-style-type: none"> <li>Understand principles and practices of Tourism</li> </ul>
671	Tourism: Certificate Course Paper - II	251	Tourism production	<ul style="list-style-type: none"> <li>Understand Production of Tourism</li> </ul>
672	Viva Voce	252	Dissertation, photography, and video shooting	<ul style="list-style-type: none"> <li>Learn to draft dissertation</li> <li>Learn photography and video shooting</li> </ul>
673	Tourism: Diploma Course Paper – I	253	Indian History, Geography, and Tourism	<ul style="list-style-type: none"> <li>Learn Indian History, Geography, and Tourism</li> </ul>
674	Tourism: Diploma Course Paper - II	254	Travel agency, Tour Business, and Public Relations in Tourism	<ul style="list-style-type: none"> <li>Learn working of Travel agency, Tour Business, and Public Relations in Tourism</li> </ul>
675	Viva Voce	255	Excursion report and presentation	<ul style="list-style-type: none"> <li>Learn to prepare Excursion report and presentation</li> </ul>
676	Tourism: Advance Diploma Course Paper - I	256	Tourism in Chhattisgarh	<ul style="list-style-type: none"> <li>Understand the importance of Tourism in Chhattisgarh</li> </ul>
677	Tourism: Advance Diploma Course Paper -II	257	Perspective in Environmental Studies	<ul style="list-style-type: none"> <li>Understand Perspective in Environmental Studies</li> </ul>
678	Project/Viva Voce	258	dissertation and Videos	
679	Communicative English: Certificate Course Paper - I	138	An Introduction to Phonetics	<ul style="list-style-type: none"> <li>Understand Phonetics</li> </ul>
680	Communicative English: Certificate Course Paper - II	139	Communicative Grammar of English	<ul style="list-style-type: none"> <li>Understand Communicative Grammar of English</li> </ul>
681	Viva Voce	140	Test the ability to converse in English with correct accent and pronunciation.	<ul style="list-style-type: none"> <li>Learn to converse in English with correct accent and pronunciation</li> </ul>
682	Translation Proficiency: Certificate Course Paper - I	259	Basics of translation proficiency - Hindi Grammar, English Grammar	<ul style="list-style-type: none"> <li>Learn basics of translation proficiency</li> <li>Learn Hindi Grammar</li> </ul>
683	Translation Proficiency: Certificate Course Paper - II	260	Translation - Definition, vowels, translation Hindi to English and English to Hindi	<ul style="list-style-type: none"> <li>Understand vowels, translation</li> </ul>
684	Viva Voce	261	Local Accent, Private office working place visit group discussion and practice.	<ul style="list-style-type: none"> <li>Understand local accent</li> <li>Learn group discussion</li> </ul>

685	Applied Sociology Certificate Course, Paper - I	110	Rural sociology - Rural Society, farmer Society	<ul style="list-style-type: none"> <li>Understand rural sociology</li> </ul>
686	Applied Sociology Certificate Course Paper - II	111	Sociology of Religion	<ul style="list-style-type: none"> <li>Understand Sociology of religion</li> </ul>
687	Viva Voce	112	Rural leadership, casteism, relationship etc. - project work.	<ul style="list-style-type: none"> <li>Understand Rural leadership, casteism, relationship</li> </ul>
688	Applied Sociology: Diploma Course Paper - I	113	Industrial sociology	<ul style="list-style-type: none"> <li>Understand Industrial sociology</li> </ul>
689	Applied Sociology: Diploma Course Paper - II	114	Environmental Sociology	<ul style="list-style-type: none"> <li>Understand Environmental Sociology</li> </ul>
690	Viva Voce	115	Study of slums in Industrial area, Industrial unemployment, industrial dissatisfaction etc.	<ul style="list-style-type: none"> <li>Understand slums in Industrial area, Industrial unemployment, industrial dissatisfaction</li> </ul>
691	Applied Sociology: Advance Diploma Course Paper - I	116	Tribal Sociology - Meaning, definition, major tribes of Chhattisgarh, Geographical distribution of tribal population, tribal culture etc.	<ul style="list-style-type: none"> <li>Understand Tribal Sociology - Meaning, definition, major tribes of Chhattisgarh, Geographical distribution of tribal population, tribal culture</li> </ul>
692	Applied Sociology: Advance Diploma Course Paper - II	117	Tribal Sociology - Tribal Development and Mobility	<ul style="list-style-type: none"> <li>Understand Tribal Development and Mobility</li> </ul>
693	Viva Voce	118	Project on culture, traditions and institutions of different tribes.	<ul style="list-style-type: none"> <li>Understand culture, traditions and institutions of different tribes</li> </ul>
694	Industrial Microbiology: Certificate Course Paper - I	184	Fundamentals of industrial microbiology, tools and techniques.	<ul style="list-style-type: none"> <li>Understand Fundamentals of industrial microbiology, tools and techniques.</li> </ul>
695	Industrial Microbiology: Certificate Course Paper - II	185	Molecular Biology, Biochemistry, and Microbial Genetics.	<ul style="list-style-type: none"> <li>Understand Molecular Biology, Biochemistry, and Microbial Genetics.</li> </ul>
696	Practical	186	Preparation of media, autoclaving, Purification of microbial cultures, chromatographic techniques, etc.	<ul style="list-style-type: none"> <li>Understand Preparation of media, autoclaving, Purification of microbial cultures, chromatographic techniques,</li> </ul>
697	Bio Technology: Certificate Course Paper - I	123	Bio Chemistry - CBH Classification, Proteins, Amino acids, Electrophoresis etc.	<ul style="list-style-type: none"> <li>Understand CBH Classification, Proteins, Amino acids, Electrophoresis</li> </ul>
698	Bio Technology: Certificate Course Paper - II	124	Cell Biology - Cell Theory, Role of Endoplasmic, Ribosome, Linkage and crossing over, cell - division etc.	<ul style="list-style-type: none"> <li>Understand Cell Theory, Role of Endoplasmic, Ribosome, Linkage and crossing over, cell - division</li> </ul>
699	Practical	125	Vital staining of mitochondria, Demonstration of giant chromosome etc.	<ul style="list-style-type: none"> <li>Understand Vital staining of mitochondria, Demonstration of giant chromosome</li> </ul>
700	Industrial Chemistry: Certificate Course Paper - I	175	Nomenclature, Raw material for organic compounds, synthetic petrol, Distillation, Basic Metallurgical operation	<ul style="list-style-type: none"> <li>Understand Nomenclature, Raw material for organic compounds, synthetic petrol, Distillation, Basic Metallurgical operation</li> </ul>
701	Industrial Chemistry: Certificate Course Paper - II	176	Dimension and Unit, Entropy Balance, Billers, water analysis, and water treatments etc.	<ul style="list-style-type: none"> <li>Understand Dimension and Unit, Entropy Balance, Billers, water analysis, and water treatments</li> </ul>
702	Practical	177	Extraction process, Chromatography, Ore analysis etc.	<ul style="list-style-type: none"> <li>Understand Extraction process, Chromatography, Ore analysis</li> </ul>
703	Industrial Chemistry: Diploma Course Paper - I	181	Material Science, metal and alloys, Cements, Ceramics, Polymeric Materials, Process instrumentation	<ul style="list-style-type: none"> <li>Understand Material Science, metal and alloys, Cements, Ceramics, Polymeric Materials, Process instrumentation</li> </ul>
704	Industrial Chemistry: Diploma Course Paper - II	182	Nitrating agents, kinetics and mechanism. Halogenation, Sulphonation	<ul style="list-style-type: none"> <li>Understand Nitrating agents, kinetics and mechanism. Halogenation, Sulphonation</li> </ul>

705	Practical	183	Instrumental methods of analysis	<ul style="list-style-type: none"> <li>Understand Instrumental methods of analysis</li> </ul>
706	Industrial Chemistry: Advance Diploma Course Paper - I	178	Pharmaceuticals and Industrial Organization	<ul style="list-style-type: none"> <li>Understand Pharmaceuticals and Industrial Organization</li> </ul>
707	Industrial Chemistry: Advance Diploma Course Paper - II	179	Drugs - Phyto-chemical, Raw material process of manufacture, Analgesic, Antimicrobial etc.	<ul style="list-style-type: none"> <li>Understand Drugs - Phyto-chemical, Raw material process of manufacture, Analgesic, Antimicrobial</li> </ul>
708	Practical	180	Material testing, water analysis etc.	<ul style="list-style-type: none"> <li>Understand Material testing, water analysis</li> </ul>
709	Fashion Designing: Certificate Course Paper - I	156	Focus on design sense, research, and individualistic art.	<ul style="list-style-type: none"> <li>Understand Focus on design sense, research, and individualistic art</li> </ul>
710	Fashion Designing: Certificate Course Paper - II	157	Designing work in terms of conceptualization, artistic expression and search for new trends in the fashion world.	<ul style="list-style-type: none"> <li>Understand Designing work in terms of conceptualization, artistic expression and search for new trends in the fashion world</li> </ul>
711	Practical	158	Practical aspects based on theory	<ul style="list-style-type: none"> <li>Understand Practical aspects based on theory</li> </ul>
712	Theoretical Yoga Vijnan		Introduction to Yoga: concept, meaning, definition and tradition of Yoga, Guru- Shishya, Basic texts of Yoga, Kinds of yoga, Study of Ida, Pingala, Sushumna, Seven Chakras, Five Koshas, and Five Pranas, contemporary Yogis.	<ul style="list-style-type: none"> <li>Understand concept, meaning, definition and tradition of Yoga, Guru- Shishya,</li> <li>Learn Basic texts of Yoga, Kinds of yoga, Study of Ida, Pingala, Sushumna, Seven Chakras, Five Koshas, and Five Pranas,</li> <li>Learn about contemporary Yogis.</li> </ul>
713	Applied Yoga Vijnan		Meaning, definition and importance of Yoga and Health in life, theories of Health, Various exercises benefits of Yoga, Life pattern and Yoga --Effects of yoga upon bodily functions, Role of yoga asanas in modern living.	<ul style="list-style-type: none"> <li>Understand Meaning, definition and importance of Yoga and Health in life, theories of Health,</li> <li>Understand benefits of Yoga, Life pattern and Yoga –</li> <li>Understand Effects of yoga upon bodily functions,</li> <li>Understand Role of yoga asanas in modern living.</li> </ul>
714	Yoga Philosophy		The subject matter of Yoga philosophy- Samkhya: Prakriti, Purusha and Cosmology, Vedanta, Different systems of philosophy, Yoga, Yoga Sutra, Kinds of Yoga, and psychosomatic disorders and their management through Yoga.	<ul style="list-style-type: none"> <li>Understand The subject matter of Yoga philosophy</li> <li>Understand Different systems of philosophy, Yoga, Yoga Sutra, Kinds of Yoga, and psychosomatic disorders and their management through Yoga.</li> </ul>
715	Hath Yoga		Introduction to the Hath Pradipika and Gherand Samhita, Pranayama, kinds, Precaution and benefits, Shuddhi kriya, Bandha and Mudras and Different systems of Meditation.	<ul style="list-style-type: none"> <li>Understand Hath Pradipika and Gherand Samhita, Pranayama, kinds, Precaution and benefits, Shuddhi kriya, Bandha and Mudras and</li> <li>Understand Different systems of Meditation.</li> </ul>
716	Practical		Practice Indoor Asanas, Kriyas, Pranayam & Meditation, Bandha, Mudra and Dhyana & Yoganidra.	<ul style="list-style-type: none"> <li>Practice Indoor Asanas, Kriyas, Pranayam &amp; Meditation, Bandha, Mudra and Dhyana &amp; Yoganidra.</li> </ul>
717	Anatomy and Physiology			
718	Practical			
719	Onco-nutrition			
720	Basic Diagnostic Techniques of Assessment of Health Status			

## Generic Elective Courses, Skill Enhancement Courses, Value Added Courses 2022-2023

Sn	Name of the Course	Course Code	Description	Course Learning Outcome
1.	Biotechnology and Human welfare	BBTGEC – T	Biotechnology in Agriculture, in environment, and in health	<ul style="list-style-type: none"> <li>Learn the basic of biotechnology</li> <li>Learn the application of biotechnology</li> <li>Learn the importance of biotechnology for human</li> </ul>
2.	Chemistry in Daily Life	CHEMGEC – T	Vitamins, Chemistry of Materials, Soap and Detergent, Polymers, Metal ions in Biological System, Pesticides and Fertilizers	<ul style="list-style-type: none"> <li>Learn about vitamins and minerals in daily life</li> <li>Understand the basic concepts of soap and detergents</li> <li>Learn polymer and their uses</li> <li>Know about metal ions in biological system</li> <li>Know about necessary pesticides and fertilizers</li> </ul>
3.	Basic Nutrition for all	HSCGEC – T1	Carbohydrates, Proteins, Fats, Minerals: Composition, Sources, Classification, and Deficiency	<ul style="list-style-type: none"> <li>Understand basic nutrients</li> <li>Understand basic knowledge of carbohydrates, minerals, proteins, vitamins</li> <li>Understand macro and micro nutrients</li> </ul>
4.	Management Principles	BBCGE – 201	Principles and Functions of Management, Planning and Decision Making, Organization, Delegation of Authority, Co-ordination, Controlling and Budgeting	<ul style="list-style-type: none"> <li>Understand Management concepts and managerial functions</li> <li>Understand the planning and decision process in the organization</li> <li>Understand the concept of organization</li> <li>Interpret the relevance of delegation and decentralization of authority in an organization</li> <li>Demonstrate the ability to directing and coordinating effectively</li> </ul>
5.	Set Theory, Logic, and Matrices	MGEC – 1	Sets, Relations and Functions, Logic, Matrix Algebra	<ul style="list-style-type: none"> <li>Understand the concepts of sets, logic, and matrices</li> <li>Formulate and interpret statements presented in logic, reformulate statements</li> <li>Understand concepts of relation, function equivalence relation, partial order relation</li> <li>Perform the matrix operation of addition, multiplication and transposition and express a system of simultaneous linear equations in matrix form</li> </ul>
6.	Understanding Culture of Chhattisgarh		Establishment, and Geographical Features, Folk Dances, Folk Songs, Folk instruments, Theatre, Textile, Ornaments, Festivals, Arts and Crafts, Food, Fairs etc.	<ul style="list-style-type: none"> <li>Understand historical and cultural evolution of Chhattisgarh</li> <li>Understand folk dances, folk songs, theatre, textile, craft, food, fairs etc.</li> </ul>
7.	Nutrition in Emergencies and Disasters	HGEC – T2	Natural/ Man-made Disasters, Communicable diseases: Surveillance and treatment, assessment and Surveillance of Nutritional status in Emergency, Nutritional relief and Rehabilitation.	<ul style="list-style-type: none"> <li>Familiarize students with various natural and manmade emergencies and disasters</li> <li>Understand the aftermath impact on nutrition and health status</li> <li>Understand the special nutritional concerns arising out of these situations</li> <li>Understand strategies for nutritional rehabilitation management if the health of emergency affected population</li> </ul>
8.	Translation Proficiency (Anuvaad Saamarth)	HinGEC – 1	Anuvaad, Prakriya aur Pravidhi, Karyalayeen Hindi, paribhashik Shabdawali, English to Hindi Anuwad, Chhattisgarhi to Hindi Anuwad etc	<ul style="list-style-type: none"> <li>Understand Anuvaad, Prakriya aur Pravidhi, Karyalayeen</li> <li>Understand Hindi, paribhashik Shabdawali,</li> <li>Understand English to Hindi Anuwad, Chhattisgarhi to Hindi Anuwad</li> </ul>
9.	Production of Biofertilizer	BBTST101	Biofertilizer: Nitrogen Fixing Microbe, Cultivation and Mass Production, Mycorrhiza as Biofertilizer	<ul style="list-style-type: none"> <li>Understand the basics of biofertilizer production</li> <li>Learn the importance of biofertilizers</li> <li>Learn about microbes used as biofertilizer</li> </ul>
10.	Good Laboratory practices	CHEMSEC – 1	General Laboratory practices, Instrument – Techniques and Laboratory Preparation procedures	<ul style="list-style-type: none"> <li>Apply practical skills in science courses with understanding of general laboratory practices</li> <li>Apply various techniques to study chemical compounds, salts</li> <li>Explore various research issues and their solutions</li> </ul>
11.	Web Designing	CSSEC – 1	Introduction to Computer Network and Internet, Fundamentals of Web Designing, Web Designing Tools and Technologies	<ul style="list-style-type: none"> <li>Understand computer network and internet</li> <li>To get familiarize with internet tools</li> <li>Understand design principles and issues for effective web design</li> <li>Design web pages</li> </ul>

12.	Counselling skills – I	BpsyST201	Introduction to Counselling, Specific Counselling Skills, Experiential activities for counselling skills	<ul style="list-style-type: none"> <li>Have a comprehensive understanding of the profession of counselling, particularly in the Indian context</li> <li>Developing proficiencies to assist professional counsellors during intake interviews</li> <li>Acquiring basic counselling skills of problem identification and relationship building</li> </ul>
13.	Research Methodology (Skill Enhancement Elective Course)	BECO – 202 (SEC)	Research Methodology – Data Types and Sources, Questionnaire Design, Sampling Techniques	<ul style="list-style-type: none"> <li>Students will develop an understanding of how commonly available data is collected and analyzed.</li> <li>Understand the interpretation of secondary data and in the management of small primary surveys</li> </ul>
14.	Constitutional Development of India – Theory and Practice	BPOLCT201	Government of India act 1858, Morley – Minto Reform Act of 1909, Montague Chan Chelmsford Act Of 1919, Government of India Act – 1935	<ul style="list-style-type: none"> <li>Get information about the constitutions and rules established in India before Independence</li> <li>Knowledge of the system of Governance established the immediate circumstances</li> <li>To generate the ability to do comparative study and analysis of various constitution</li> <li>To learn the critical perspective about the subject</li> </ul>
15.	Aquarium and Fish Keeping	BZOLST201	Introduction to Aquarium Fish Keeping, Biology of Aquarium Fishes, Food and Feeding of Aquarium fishes, Fish Transportation Live fish transport, Maintenance of Aquarium	<ul style="list-style-type: none"> <li>Learn to identify ornamental fishes</li> <li>Learn the scientific method of setting an aquarium</li> <li>Learn the culture breeding and marketing techniques of common indigenous ornamental fishes</li> </ul>
16.	Food Fermentation and Technology	BMSECT – 201	Fermented Foods, Milk Based Fermented Foods, Grain Based Fermented Foods, Vegetable Based Fermented Foods	<ul style="list-style-type: none"> <li>Understand the practical aspects of commercially produced food and fermentative products</li> <li>Understand the practical use of microbiology for better production of home based food and fermentation</li> </ul>
17.	Electrical Circuits and Network Skills	PSEC – 101	Basic Electricity Principles, Electrical Circuits, Generators Transformers, Electric Motors, Solid – State Devices, Network Theorems	<ul style="list-style-type: none"> <li>Learn and understand to design the electrical circuits, networks, and appliances</li> </ul>
18.	NGO Management	HSSEC - 01	Concept of NGO, NGO Management - Organizational types and Structures, NGO management competencies, Team Building, Self-assessment	<ul style="list-style-type: none"> <li>Develop and understand evolution, growth and development of non-government organizations</li> <li>Learn the legal frame work for establishing NGOs</li> <li>Enhance skills and techniques of project evaluation/Resource Mobilization</li> <li>Acquire specific knowledge on project management</li> <li>Learn the concept of team building, peoples participation and self – understanding</li> </ul>
19.	Anuwad Samarthya	HinSEC – 02	Anuwad, vyutpatti, Karyaleen evam Prashasanik Shabdawali, Banking Hindi etc.	
20.	Creativity Through Language	SECEng01	Art and Craft of Language, Appreciating Creativity	<ul style="list-style-type: none"> <li>Remember how figures of speech and idioms work in the understanding of texts</li> <li>Understand the importance of social media in the present context</li> <li>Demonstrate the ability for creative thinking and critical analysis</li> <li>Can assess and show creative skills in writing, drafting, and reading</li> <li>Review literary and non literary texts</li> </ul>
21.	Nursery and Gardening	BBOTSEC201	Nursery, Seed, Vegetative propagation, Gardening: Landscaping and Home gardening, Gardening operations, Soil laying, manuring, watering, planting and cutting	<ul style="list-style-type: none"> <li>Apply the basic principles and components of gardening</li> <li>Conceptualize flower arrangement and bio – aesthetic planning</li> <li>Design various types of gardens according to the culture and the art of bonsai</li> <li>Distinguish between formal, informal, free style gardens</li> </ul>
22.	Urdu Writing and Speaking Course	SECURDU -01	Huruph Shanashi - with the help of Hindi and English, Alfaaz making, Reading and Writing Urdu	<ul style="list-style-type: none"> <li></li> </ul>
23.	Technical Knowledge About Banking Product and Process	BBCSE - 201	Banking System in India, Various Government Schemes for Implementation, Technology in Banking,	<ul style="list-style-type: none"> <li>Understand the core concepts of banking</li> <li>Acquainted with the knowledge of the functioning of the banking Industry, especially that of India</li> <li>Understand the structure of banking system in India</li> </ul>

			Regulations applicable for Products and Process	<ul style="list-style-type: none"> <li>Understand the operational aspect of commercial banks in India</li> <li>Understand various concepts like ATM, e – banking, Basel Norms etc.</li> </ul>
24.	The Memory techniques	VACEng01	Memory technique, Method of Loci, Visual Resemblance, Alphabet Pegs, Story Method etc.	<ul style="list-style-type: none"> <li>Understand the basic concepts of memory</li> <li>Understand different strategies designed to improve memory</li> <li>Demonstrate the ability to differentiate between short and long- term memory</li> </ul>
25.	Yoga in Daily Life	VACSP01	Theory of Yoga Science, Yoga Practical: Life pattern and Yoga, Asanas in modern living etc.	<ul style="list-style-type: none"> <li>Learn the basic of Yoga science</li> <li>Understand to improve life style</li> <li>Learn various asanas to be fit and healthy</li> </ul>
26.	Gender and Society	VACH01	Gender socialization in family and society, Gender and Development: Approaches and Strategies	<ul style="list-style-type: none"> <li>Understand Gender socialization in family and society</li> <li>Understand Gender and Development: Approaches and Strategies</li> </ul>
27.	Sugam Sangeet	VACMUS01	Sangeet ka samanya gyan, swar abhyas, lok sangeet, sugam sangeet mein prayog kiye jane wale taal etc.	<ul style="list-style-type: none"> <li>Understand Sangeet ka samanya gyan</li> <li>Learn swar abhyas, lok sangeet,</li> <li>Demonstrate sugam sangeet mein prayog kiye jane wale taal</li> </ul>
28.	Anuwad Kaushal	HinSEC - 01	Anuwad - Paribhasha, Seemaain, Prakriya, Paribhashik Shabdawali etc. Practical - Group Discussion, Pariyojna report on the basis of visit to government /non- government institution	<ul style="list-style-type: none"> <li>Understand Anuwad - Paribhasha, Seemaain, Prakriya, Paribhashik Shabdawali</li> <li>Learn to Prepare report on the basis of visit to government /non- government institution</li> </ul>
29.	Care for Elderly	VASHS -02	Emergency and Scope of Gerontology and elderly care, demographic trends in India, Biological, Physiological, Psychological, Sociological aspects, Adjustment Pattern and changing lifestyles in Old Age	<ul style="list-style-type: none"> <li>Understand and develop elderly care</li> <li>Learn adjustment pattern</li> <li>Improve family relation and parenthood</li> <li>Learn basic knowledge of services</li> </ul>
30.	Stress Management	VACHS -022	Meaning and Nature of Stress, Cognitive appraisals of Stress, Behavioural aspects of Stress, Stress and Work Performance	<ul style="list-style-type: none"> <li>Understand behavioral stress</li> <li>Learn work performance</li> <li>Develop emotional intelligence</li> <li>Learn biochemistry of stress</li> </ul>
31.	Human Rights	VACPOL – 02	Human Rights: Meaning, Definition, Importance, Purpose, Origin, Function, Challenges etc	<ul style="list-style-type: none"> <li>Learn Human Rights</li> <li>Learn and understand Human protection</li> <li>Understand Fundamental Duties</li> <li>Understand National, State and International High Commission Rights</li> </ul>
32.	An Event Planning	VACEng02	What is an Event, Characteristics of an Event, Event planning Process, Event Concepts and Theme ideas	<ul style="list-style-type: none"> <li>Understand events and its characteristics</li> <li>Understand the steps of planning and organizing an event</li> <li>Demonstrate the ways of strategic marketing</li> </ul>
33.	Ayurved ke mul tantra	BASanVAC - T	Ayurveda ka parichay, Trigun, panchmahabhut, tridosh, sushrat sahinta ka samanya gyan, important medicinal plants etc.	<ul style="list-style-type: none"> <li>Ayurveda ka parichay, Trigun, panchmahabhut, tridosh, sushrat sahinta ka samanya gyan, important medicinal plants</li> </ul>
34.	fundamental of Library Science	BGLVA	Universe of Knowledge, Library as Social Institution	<ul style="list-style-type: none"> <li>Understand the concept of information and disciplines of libraries and information science</li> <li>Understand the development of library</li> <li>Know the role of libraries in the development of various aspects of society</li> <li>Comprehend the basic philosophy of library and information science</li> </ul>
35.	Ethics and Values in Ancient Indian Society	VACSOC -02	Structured Basic of Ancient Indian Society, The Purpose and progression of life in the texts	
36.	Elementary Microbiology	BMGECT – 101	History of Microbiology, Scope of Microbiology, Types of Microorganisms, General features and significance of bacteria, algae, fungi, and virus	<ul style="list-style-type: none"> <li>Understand the viruses, Bacteria, Phycology, Mycology, and Plant Pathology</li> <li>Learn microbial techniques for agriculture and Industry</li> <li>Learn life cycles of selected genera of different groups</li> </ul>
37.	Family Dynamics	BAHSC – NEP – 101	Family life cycle, - stages and sub stages, Marriage as an institution, Interpersonal	<ul style="list-style-type: none"> <li>Understand family structure</li> <li>Understand types of families</li> <li>Understand functions of family</li> </ul>



			relationship, Family interaction and communication.	<ul style="list-style-type: none"> <li>Understand customs of family</li> </ul>
38.	Ergonomics	BHSC NEP – 101	Scope of Ergonomics, Anthropometry and Biomechanics, Environment, Engineering Psychology	<ul style="list-style-type: none"> <li>Understand basic knowledge of Muscular structure</li> <li>Understand Muscular contraction</li> <li>Understand muscular skills</li> <li>Understand posture and endurance</li> </ul>
39.	Basic Concept of Sociology	SOCGEC – 02	Sociology – Origin, Meaning, and Significance, Social Institutions, Culture and Society	<ul style="list-style-type: none"> <li>Understand Origin, Meaning, and Significance, Social Institutions, Culture and Society</li> </ul>
40.	Psychology and Mental Health	BpsyGT201	Mental Health, the invisible Monsters: Anxiety, Depression and Suicide, reaching out and Providing Initial help	<ul style="list-style-type: none"> <li>Understand the status of mental health problem in India and the World</li> <li>Create mental health awareness amongst non-psychology students</li> <li>Identify people suffering from common mental problems</li> <li>Learn to provide psychological first aid to people</li> </ul>
41.	Disaster Management	BGENT – 201	Disasters: Risk and Vulnerability, Disaster in India, Flood: Impact, Distribution and Mapping, Man-made Disasters, Response and Mitigation to Disasters	<ul style="list-style-type: none"> <li>Understand perspective of disasters and various dimensions of disaster management</li> <li>Get comprehensive knowledge of various natural and man-made disasters in India</li> <li>Examine the response and mitigation measures of disasters</li> </ul>
42.	Sahitya aur Cinema	HINGEC – 02	Sahitya aur Cinema: sankchipt itihaas, prakar, feature film documentary, cinema sanwaad, samajik animation, aur cartoon film etc	<ul style="list-style-type: none"> <li>Sahitya aur Cinema: sankchipt itihaas, prakar, feature film documentary, cinema sanwaad, samajik animation, aur cartoon film</li> </ul>
43.	Bhartiya Rashtriya Andolan (1857 – 1947)	BHIST – 202	19 <sup>th</sup> Century mein Rashtravad ka vikas, prarambhik andolan, Gandhi yug, Swatantrata 57rapti evam vibhajan	<ul style="list-style-type: none"> <li>Understand causes and nature of 1857 revolt</li> <li>Understand different movements of the struggle of freedom</li> <li>Understand approaches of National Movement</li> </ul>
44.	Urdu Shayari [Generic]	BAURDU		
45.	Business Organization	BBCGE – 101	Concept and Forms of Business Organization, Business and environment Interface, profit Maximization v/s social responsibilities of Business, Forms of Business Organization, Location of Enterprise	<ul style="list-style-type: none"> <li>Understand the importance of business and its types</li> <li>Understand Business and Environment</li> <li>Analyze the cooperative organization</li> </ul>
46.	Vector Disease and Control	BZOOLGT101	Vector and Vector bionomics, Disease Vectors and the causes of disease outbreaks, Vector management Strategies, Emerging concepts and approaches to vector management	<ul style="list-style-type: none"> <li>Awareness about the causative agents and control measures of many commonly occurring diseases</li> <li>Develop understanding about the favorable breeding conditions for the vectors</li> </ul>
47.	Biodiversity (Microbes, Algae, Fungi and Archeogoniate)	BBOTGEC101	Viruses: Discovery, multiplication, DNA Virus – lysogenic cycle, reproduction, Algae: Ecology and distribution, Fungi: characteristics, distribution, classification etc.	<ul style="list-style-type: none"> <li>Understand the viruses, bacteria, phycology, mycology, and plant pathology</li> <li>Learn microbial techniques for agriculture and Industry</li> <li>Learn life cycles of selected genera of different groups</li> <li>Understand etiology of plant diseases</li> </ul>
48.	Waves and Optics	PHYGEC -01	Superposition of two Collinear Harmonic Oscillations, Waves Motion, Interference	<ul style="list-style-type: none"> <li>Understand linearity and superposition principle</li> <li>Understand transverse waves, travelling and standing waves</li> <li>Understand wave optics – electromagnetic nature of light</li> <li>Understand division of amplitude and division of wave front</li> </ul>
49.	Basic Political Theory	BPOLCT101		<ul style="list-style-type: none"> <li>Able to answer how politics have been used by various approaches</li> <li>Able to explain contemporary discourses on rights, liberty, equality, and justice</li> <li>Understand the state and its discourses in politics</li> <li>Explain and understand democracy differently</li> </ul>
50.	Introduction to Literature	GEEng001	What Literature is valued for? Why read literature, literary values and function of literature. Tales, stories, epics,	<ul style="list-style-type: none"> <li>Learn the meaning of literature, literary values, and basic literary concepts.</li> <li>Have a basic understanding of development of English Literature in terms of various movements.</li> </ul>

			drama, etc. to think critically through a reading of literatures, and analyse texts.	<ul style="list-style-type: none"> <li>Engage with different genres and forms of English Literature.</li> <li>Develop skills of critical analysis and interpretation of selected work in order to understand the theme, language, tone and style, and elements of prosody.</li> <li>Develop fundamental skills required for close reading to evaluate the texts and concepts</li> </ul>
51	Issues of Economic Development	BECO-102 (G.E.)	Underdeveloped and Developed Economy Measurement of economic development Human Development New economic Policy	<ul style="list-style-type: none"> <li>Develop a critical understanding of the contemporary issues in Indian economic development</li> </ul>
52	Basic Sanskrit	BSGEC – 001		<ul style="list-style-type: none"> <li></li> </ul>



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