



## ***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.

### **BACHELOR OF SCIENCE (B. Sc) AND MASTERS IN SCIENCE (MSc.)**

#### **Programme Outcomes (PO)**

The undergraduate and postgraduate Programmes in Biological/Physical Sciences will instil in the students a scientific temper and impart a holistic education through the following outcomes:

PO-1: Knowledge- Demonstrate and apply fundamental knowledge in concepts of Biological/Physical Sciences and its application in research, industry and daily life.

PO-2: Problem analysis / solving, design and development of solutions- Critically integrate knowledge and enable the analysis of complex phenomena, issues and situations related to research and development. The student will be able to critically evaluate and discuss scientific literature and key methodologies with regard to validity, reliability, and applicability, within the biological and physical sciences. They will also demonstrate the ability to plan, perform, analyse, and critically evaluate their own research work.

PO-3: Sensitive to environment sustainability issues- Critically weigh and evaluate the potentials and impact of scientific innovations on environment and find sustainable solution to issues pertaining to environment, public health and agriculture.

PO-4: Ethics and Communication- Imbibe and demonstrate ethical practice in planning experiments, research designs and communicating the complex concepts to the scientific and non-scientific community. Demonstrate the ability to present their original work through written, oral, and visual presentations at various forum.

PO-5: Individuality and Teamwork- Perform research, development and/or investigations and project activities independently and collaboratively in a safe and efficient manner.

PO-6: Competencies for Employment and Research- Acquire both technical and soft skills to qualify for a broad range of positions in research, industry, consultancy and education or for further education in a doctoral program.

#### **Program Specific Outcome (PSO)**

PSO1. Imbibing moral and human values through study of Hindi, English, Sanskrit, and Urdu languages. Proficiency in language is to improve employability.

PSO2. Develops the literary research attitude in order to fulfil needs of growing societies and nation

## **BACHELOR OF ARTS (BA) AND MASTERS IN ARTS (MA)**

### **Programme Outcomes (PO)**

PO-1: Knowledge- Principle of Magis (More) - Equip students with a strong academic perspective. Address the concerns of the world through rigorous academic inquiry within and across multiple disciplines.

PO-2: Problem analysis / solving, Design and development of solutions: Principle of Reflection – Students will be able to gain knowledge, ask questions, develop skills and form conclusions through reflective thinking.

PO-3: Environment sustainability: Principle of Ad Majorem Dei Gloriam (For the Greater glory of God) – Students are trained to implement best practices in environmental conservation and sustainability through action.

PO-4: Ethics and Communication: Principle of Discernment – Train students to discern ethical principles and personal values in light of academic experience.

PO-5: Individuality and Teamwork: Principle of Cura Personalis – Students will be able to work collaboratively and effectively with diverse groups towards personal and common goals

PO-6: Competencies for employment and Research: Instil professional competencies and values in students that aid in rapid growth and provides them the confidence to be in positions of responsibility that help serve for the betterment of society.

PO-7: Cultural and Global engagements: Principle of Solidarity and Kinship – Enable students to integrate varying perspectives that link local and global realities.

PO-8: Community engagement: Principle of Forming & educating agents of change – Help students to share gifts, pursue justice and demonstrate through communication solutions, concern for the poor and marginalised.

### **Program Specific Outcome (PSO)**

PSO-1. Students will integrate knowledge from various disciplines within the arts and humanities, fostering a holistic understanding of complex societal issues.

PSO2. Students will develop the ability to critically analyse texts, arguments, and social phenomena, demonstrating a comprehensive understanding of various theoretical frameworks.

## **BACHELOR OF COMMERCE (B.COM) AND MASTERS IN COMMERCE (MCOM)**

### **Programme Outcomes (PO)**

The course is structured and administered to cater to students who work full time day jobs. B.Com is part of the night college. Most of the students work to financially support their families.

PO-1: Knowledge: Principle of Magis (More) - Lay strong academic foundations to develop competent knowledge sets unique to business environment.

PO-2: Problem analysis / solving, Design and development of solutions: Principle of Reflection – Impart analytical skills and soft skills required in workplaces and for progression into prestigious post graduate education.

PO-3: Environment sustainability: Principle of Ad Majorem Dei Gloriam (For the Greater glory of God) – Education in the value of trusteeship while engaging in environmental and social issues.

PO-4: Ethics and Communication: Principle of Discernment – Education in ethical principles leading to personal values, professional ethics and resulting in critical consumption and just business practice.

PO-5: Individuality and Teamwork: Principle of Cura Personalis – Development of entrepreneurial mindset, leadership skills and emotional intelligence to face the evolving marketplace.

PO-6: Competencies for employment and Research: Instil professional competencies and values that aid in rapid professional growth and to be in positions of responsibility and governance that help serve for the betterment of society.

PO-7: Cultural and Global engagements: Principle of Solidarity and Kinship – integrate diverse perspectives of commerce, business, economic, social and cultural leanings that link local and global realities.

PO-8: Community engagement: Principle of Forming & educating agents of change - Sharing privileges, engaging in critical debate and using talents for community gains.

### **Program Specific Outcome (PSO)**

PSO1. Graduates will acquire a thorough understanding of fundamental concepts in commerce, finance, accounting, and business management, preparing them for various roles in the business sector.

PSO2. Graduates will enhance their analytical abilities to evaluate financial statements and business performance, facilitating informed decision-making.

## **BACHELOR OF COMPUTER APPLICATIONS (BCA)**

### **Programme Outcomes (PO)**

PO-1: Apply mathematics and computing fundamental and domain concepts to find out the solution of defined problems and requirements. (Computational Knowledge)

PO-2: Use fundamental principle of Mathematics and Computing to identify, formulate research literature for solving complex problems, reaching appropriate solutions. (Problem Analysis)

PO-3: Understand to design, analyze and develop solutions and evaluate system components or processes to meet specific need for local, regional and global public health, societal, cultural, and environmental systems. (Design/Development of Solutions)

PO-4: Use expertise research-based knowledge and methods including skills for analysis and development of information to reach valid conclusions. (Conduct Investigations of Complex Computing Problems)

PO-5: Use expertise research-based knowledge and methods including skills for analysis and development of information to reach valid conclusions. (Conduct Investigations of Complex Computing Problems)

PO-6: Exhibiting ethics for regulations, responsibilities and norms in professional computing practices. (Professional Ethics)

PO-7: Enlighten knowledge to enhance understanding and building research, strategies in independent learning for continual development as computer applications professional. (Life-long Learning)

PO-8: Establishing strategies in developing and implementing ideas in multi- disciplinary environments using computing and management skills as a member or leader in a team. (Project Management and Finance)

PO-9: Contribute to progressive community and society in comprehending computing activities by writing effective reports, designing documentation, making effective presentation, and understand instructions. (Communication Efficacy)

PO-10: Apply mathematics and computing knowledge to access and solve issues relating to health, safety, societal, environmental, legal, and cultural issues within local, regional and global context. (Societal and Environmental

Concern)

PO-11: Gain confidence for self and continuous learning to improve knowledge and competence as a member or leader of a team. (Individual and Teamwork)

PO-12: Gain confidence for self and continuous learning to improve knowledge and competence as a member or leader of a team. (Individual and Teamwork)

### **Program Specific Outcomes (PSO)**

PSO-1: Analyze their abilities in systematic planning, developing, testing and executing complex computing applications in field of Social Media and Analytics, Web Application Development and Data Interpretations.

PSO-2: Apprise in-depth expertise and sustainable learning that contributes to multi-disciplinary creativity, permutation, modernization and study to address global interest.

## **BACHELOR OF SCIENCE (COMPUTER SCIENCE)**

### **Programme Outcomes (PO)**

PO-1: Computational Knowledge- Apply mathematics, sciences and computing fundamental and domain concepts to find out the solution of defined problems and requirements.

PO-2: Problem Analysis- Use fundamental principle of Mathematics, Sciences and Computing to identify, formulate research literature for solving complex problems, reaching appropriate solutions.

PO-3: Design / Development of Solutions- Understand to design, analyze and develop solutions and evaluate system components or processes to meet specific need for national and regional public health, societal, cultural, and environmental systems.

PO-4: Conduct Investigations of Complex Computing Problems- Use expertise research-based knowledge and methods including skills for analysis and development of information to reach valid conclusions.

PO-5: Modern Tool Usage- Adapt, apply appropriate modern computing tools and techniques to solve computing activities keeping in view the limitations.

PO-6: Professional Ethics- Exhibiting ethics for regulations, responsibilities and norms in professional computing practices.

PO-7: Life-long Learning- Enlighten knowledge to enhance understanding and building research, strategies in independent learning for continual development as computing professional.

PO-8: Project management and finance- Establishing strategies in developing and implementing ideas in multidisciplinary environments using computing and management skills as a member or leader in a team.

PO-9: Communication Efficacy- Contribute to progressive community and society in comprehending computing activities by writing effective reports, designing documentation, making effective presentation, and understand instructions.

PO-10: Societal and Environmental Concern- Apply mathematics, science and computing knowledge to access and solve issues relating to health, safety, societal, environmental, legal, and cultural issues within local, regional and global context.

PO-11: Individual and Team Work- Gain Confidence for self and continuous learning to improve knowledge and competence as a member or leader of a team

PO-12: Innovation and Entrepreneurship Learn to design innovative solutions for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.

### **Program Specific Outcomes (PSOs)**

PSO-1: Analyze their abilities in systematic planning, developing, testing and executing complex computing and computer science in field of Physics, Mathematics, Social Media and Analytics, Web Application Development and Data Interpretations.

PSO-2: Apprise in-depth expertise and sustainable learning that contributes to multi-disciplinary creativity, permutation, modernization and study to address global interest.

### **BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

#### **Programme Outcomes (PO)**

PO-1. Graduates will be able to communicate effectively in both oral and written forms, essential for professional interactions in business environments.

PO-2. Students will apply knowledge of various functional areas of business, including management, marketing, finance, and human resources.

PO-3. Graduates will demonstrate critical thinking skills to analyze business problems and make informed decisions based on data interpretation.

PO-4. Students will conduct research and experiments to propose solutions to complex business challenges.

PO-5. Graduates will function effectively as individuals and as part of a team, demonstrating leadership qualities in collaborative settings.

#### **Program Specific Outcomes (PSOs)**

PSO-1: Students will exhibit a thorough understanding of broad business concepts and principles, preparing them for various roles in the industry.

PSO-2: Graduates will develop entrepreneurial skills, enabling them to identify opportunities and create viable business ventures.

### **BACHELOR & MASTER OF LIBRARY SCIENCE & INFORMATION TECHNOLOGY**

#### **Programme Outcomes (PO)**

PO-1: Graduates will demonstrate a comprehensive understanding of the principles, theories, and practices of library and information science.

PO-2: Students will be equipped with essential skills to perform library housekeeping activities and provide effective library services using modern information and communication technologies.

PO-3: Graduates will develop a strong sense of professional ethics and responsibility in providing library and information services.

PO-4: Students will acquire a skill set that enables them to pursue various career paths in libraries, information centers, and related fields or engage in further studies.

PO-5: Graduates will be able to communicate effectively with users, colleagues, and stakeholders in both oral and written forms.

PO-6: Students will cultivate habits of self-directed learning to adapt to the evolving landscape of library and information science.

## Program Specific Outcomes (PSOs)

PSO-1: Graduates will possess an in-depth understanding of advanced concepts, theories, and practices in library and information science.

PSO-2: Graduates will be proficient in advanced research methods, capable of conducting original research that contributes to their discipline.

## Curricula list

SN	Name of the course	Course code	Content	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	<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</li> </ul>

			and Chhattisgarh	<ul style="list-style-type: none"> <li>Ancient 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</li> <li>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		Rational behaviour of Microeconomics,	<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,</li> </ul>

		BECO - 101	Production function, Theory of distribution	<ul style="list-style-type: none"> <li>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 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	BCHEMC101 T	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	BCHEMC101 P	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	BCHEMC201 T	Chemical Bonding, Chemistry of Aliphatic Hydrocarbons, A - Liquid State, Ionic Equilibria	<ul style="list-style-type: none"> <li>• Understand chemical bonding in molecule</li> <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	BCHEMC102 P	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	BBOTDSC T10 1	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> <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	BBOTDSCP 10 1	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 T - 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 micro- organisms</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> <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	BZOOLCP20 1	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 Domain, Ideals and Modules	<ul style="list-style-type: none"> <li>Learn about the fundamental concepts of groups, subgroups, normal 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 Data and Functions,	<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</li> </ul>

			Polymorphism etc.	laboratory experiences Code, test, and implement a well – structured, robust computer program using the C++ programming language
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	BSCCP101	Windows, MS Word, MS Excel, MS Power Point etc. [ Steps to create, open a new work book, insert watermark, create	<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>

	Laboratory Course		slides, insert second slide etc.]	
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> <li>Understand the MS Power point with design templates, slide transition and animation effects</li> <li>Understand the MS Access and graphics</li> <li>Understand the MS Power point with design templates, slide transition 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> <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	<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>

			Ecosystem	
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 and 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> <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	Basic English communication Skill	EngAEC00	Proficiency in reading and writing. Develop effective skills, better social interaction, and self- directed learning.	<ul style="list-style-type: none"> <li>To develop effective skills better social interaction and inculcable 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	Arwachin Hindi Kavya	HinC03	Lora=rk izkflr ds iwoZ ,oa i"pkr~ fopkj/kkjkyksa dk Hkko] f"kyi vkfn ds vk/kkj ij lkfgfR;d n`f Vdks.k ls v/;;u	Lora=rk izkflr ds iwoZ ,oa i"pkr~ fopkj/kkjkyksa dk Hkko] f"kyi vkfn ds vk/kkj ij lkfgfR;d n`f Vdks.k ls v/;;u
103	Bhasha Vigyan	HINDSE03	Lora=rk izkflr ds i woZ ,oa i"pkr~ ds dkO; dk v/;;u vk Sj rkRdkfyu Hkko] Hkk'kk] f"kyi fopkj/kkj,j 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,j dk foospuA
104	Modern Indian Literature	EngCT301	Understand and analyse various aspects of Poetry, Prose, Fiction, short Stories, and drama.	<ul style="list-style-type: none"> <li>To learn the diversities of Modern Indian Literatures and the similarities between them.</li> <li>To understand and engage with the notion of nation and nationalism.</li> <li>To appreciate the impact of literary movements on various Indian Literatures.</li> <li>Critically engage with significant social issues like caste and gender.</li> <li>To get the knowledge of different literary terms related to Drama.</li> </ul>
105	FC Hindi Language	501	fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A	fgUnh Hkk'kk vkSj lkfgR; dk bfrgkl vk Sj lkfgR; dk ,sfrgkfld foospu rFkk dkO;kax ifjp;A
106	fgUnh lkfgR; & tuinh; Hkk"kk lkfgR; (NRrhlx<+h) (Hin.Lit)	502	tuinh; Hkk'kk vk Sj lkfgR; ¼NRrhlx	tuinh; Hkk'kk vk Sj lkfgR; ¼NRrhlx
107	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>
108	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>
109	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>
110	Evaluation of Geographical Thought	505(H)		
111	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>

112	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>
113	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>
114	fgUnqLrkuh'kkL=h; laxhr (urdu)	508		
115	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>
116	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>
117	laLd'r& ukVd] Nan rFkk O;kdj.k (Sanskrit)	511	“kCnjpuk ds vk/kkj izR;;ksa ds Hk sn ;Fkk & d `nUr] rf)r ,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>“kCnjpuk ds vk/kkj izR;;ksa ds Hk sn ;Fkk &amp; d `nUr] rf)r ,oa L=h izR;; vk Sj buds }kjk “kCnksa d s flf) fo/kk;d lw= dk KkuA</li> </ul>
118	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>
119	Urdu	513		
120	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>
121	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>
122	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>

123	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>
124	Geography – Practical		The fundamentals of surveying.	<ul style="list-style-type: none"> <li>Learn the fundamental of surveying</li> </ul>
125	Geographical 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>
126	Geography - Practical		Map Cartography, and scale.	<ul style="list-style-type: none"> <li>Understand Map Cartography, and scale.</li> </ul>
127	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>
128	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>
129	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>
130	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>
131	fgUnqLrkuh'kkL=h; laxhr (urdu)	608		
132	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>
133	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>
134	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>
135	laLd`r& dkO:] vyadj rFkk fuca/k (Sanskrit)	611	egkdfo Hkkjfo jfpr o`gR=h vUrxZr egkdO; *fdjkrktq Zuh;e~* ds izFke lxZ }kjk rRdkyhu dq"ky jktuhfr dk ifjp; ,oa jktuhfrjrd lwfDr;ksa dk KkuA	<ul style="list-style-type: none"> <li>egkdfo Hkkjfo jfpr o`gR=h vUrxZr egkdO; *fdjkrktq Zuh;e~* ds izFke lxZ }kjk rRdkyhu dq"ky jktuhfr dk ifjp; ,oa jktuhfrjrd lwfDr;ksa dk KkuA</li> </ul>

136	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>
137	Urdu	613		
138	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>
139	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>
140	CBCS- 1. Analytical Chemistry		Polymer, Organic Polymer, Inorganic polymers, Synthetic Drugs, Synthetic dyes.	Polymer, Organic Polymer, Inorganic polymers, Synthetic Drugs, Synthetic dyes.
141	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.
142	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.
143	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>
144	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>
145	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>
146	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>
147	Mathematics	519	Analysis & Algebra -I	

148	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>
149	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, nonmetallic, from plant and animal source. Effect of toxicant and treatment</li> </ul>
150	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>
151	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>
152	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>
153	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>
154	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>
155	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>
156	Clinical Nutrition- Clinical Nutrition & Advanced	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>

	Dietetics			
157	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>
158	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>
159	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>
160	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>
161	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>
162	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>
163	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>
164	Mathematics - CBCS	619	Mathematical Modelling	<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>
165	Physics	620	Solid state physics, solid state devices and electronics	<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>
166	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>
167	Zoology- Genetics, Cell Physiology, Biochemistry, Biotechnology, Biotechniques	621	Genetics. Cell Physiology, Biochemistry, Biotechnology, Bio-techniques	<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>

168	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>
169	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>
170	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>
171	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>
172	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>
173	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>
174	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>
175	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>
176	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>
177	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>
178	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>
179	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>
180	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>
181	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>
182	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>
183	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>

184	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>
185	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>
186	Practical		Learn the basic dietetic treatments.	<ul style="list-style-type: none"> <li>• Learn the basic dietetic treatments.</li> </ul>
187	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>
188	Practical		Basic understanding of making apparel	<ul style="list-style-type: none"> <li>• Understand the basic of making apparel</li> </ul>
189	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>
190	Practical		learn to develop presentation of work	<ul style="list-style-type: none"> <li>• learn to develop presentation of work</li> </ul>
191	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>
192	Practical		Understand the use of XML in C#. NET specifically ADO.NET and SQL server	<ul style="list-style-type: none"> <li>• Understand the use of XML in C#. NET specifically ADO.NET and SQL server.</li> </ul>
193	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>
194	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>
195	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>
196	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>
197	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>
198	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>
199	Basics of Writing Skill in English	<b>601-A</b>	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>
200	Translation Proficiency	<b>601-B</b>	Learn the techniques and basics of translation	<ul style="list-style-type: none"> <li>• Learn the techniques and basics of translation</li> </ul>
201	Urdu Writing & Speaking	<b>601-C</b>	Understand the basics of Urdu language	<ul style="list-style-type: none"> <li>• Understand the basics of Urdu language</li> </ul>
202	Baking	<b>601-D</b>	Understand the various methods of baking.	<ul style="list-style-type: none"> <li>• Understand the various methods of baking.</li> </ul>

203	Fundamentals of Computer	601-E	Learn the basics of computer	<ul style="list-style-type: none"> <li>Learn the basics of computer</li> </ul>
204	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>
205	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>
206	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>
207	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>
208	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>
209	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>
210	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>
211	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>
212	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>
213	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>

214	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>
215	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>
216	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>
217	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>
218	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>
219	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>
220	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>
221	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>
222	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>
223	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>
224	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>

225	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>
226	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>
227	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>
228	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 classicism to scientific socialism.</li> <li>know about mercantilist and physiocrats, their growth and downfall</li> </ul>
229	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>
230	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>
231	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>
232	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>

233	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.	Understand the process by which an economic theory becomes part of the body of knowledge in economics. <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>
234	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>
235	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>
236	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>
237	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>
238	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>
239	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>
240	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>
241	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>
242	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>

243	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>
244	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>
245	LINGUISTIC S SEMANTIC S & 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>
246	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>
247	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>
248	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>
249	LINGUISTIC S & 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>
250	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>
251	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>
252	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>
253	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>
254	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>
255	CLIMATOLOGY	711	The weather phenomena, climate of the region, causes of variation of	<ul style="list-style-type: none"> <li>Understand the weather phenomena, climate of the region, causes of variation of elements</li> </ul>

			elements etc.	
256	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>
257	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>
258	PRACTICAL		The global warming and climate change, philosophical and methodological foundations of the subject.	<ul style="list-style-type: none"> <li>Understand the global warming and climate change, philosophical and methodological foundations of the subject</li> </ul>
259	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>
260	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 coastal 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 coastal economy.</li> </ul>
261	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>
262	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>
263	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>
264	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>
265	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>
266	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>
267	ENVIRONMENTAL GEOGRAPHY	913	Understand the environmental problems.	<ul style="list-style-type: none"> <li>Understand the environmental problems.</li> </ul>
268	PRACTICAL - I		Practical observation of earth surface, land forms, and other physical and human activity.	<ul style="list-style-type: none"> <li>Understand earth surface, land forms, and other physical and human activity.</li> </ul>
269	POPULATION GEOGRAPHY	1010	The complex dimensions of population, and the	<ul style="list-style-type: none"> <li>Understand the complex dimensions of population, and the population crises of India</li> </ul>

			population crises of India.	
270	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>
271	AGRICULTURAL GEOGRAPHY	1012	Familiarise 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>
272	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>
273	PRACTICAL - I		Remote sensing and GIS	
274	PRACHIN KAVYA	714	हिन्दी साहित्य के आहदकालीन काव्य का परिचय, मध्यकालीन काव्य का परिचय और तत्कालीन सांस्कृतिक, साहित्यिक, ऐतिहासिक और पिंपिओं का अध्ययन हिंेचन।	<ul style="list-style-type: none"> <li>हिन्दी साहित्य के आहदकालीन काव्य का परिचय, मध्यकालीन काव्य का परिचय और तत्कालीन सांस्कृतिक, साहित्यिक, ऐतिहासिक आहद पिंपिओं का अध्ययन विंेचन।</li> </ul>
275	CHHAYAVAD EVAM RASHTRIYA KAVYADHARA	715	छायािे कपश्चात् की मित्पूर्ण काव्य धािेँ और मित्पूर्ण कहिय ांि चनाओं का अध्ययन-हिंेचन।	<ul style="list-style-type: none"> <li>छायािेद के पश्चात् की मित्पूर्ण काव्य धािेँ और मित्पूर्ण कवियों-िचनाओं का अध्ययन-विंेचन।</li> </ul>
276	HINDI NATAK EVAM NIBANDH SAHITYA	716	हिन्दी गद्य साहित्य की मित्पूर्ण विधाओं में नाटक िं हनबंध की मित्पूर्ण िचनाओं ि चनाकािे ां का अध्ययन िं हिंेचन।	<ul style="list-style-type: none"> <li>हिन्दी गद्य साहित्य की मित्पूर्ण विधाओं में नाटक िं तनबंध की मित्पूर्ण िचनाओं ि चनाकािे ां का अध्ययन िं विंेचन।</li> </ul>
277	BHASHA VIGYAN	717	भाषा, भाषक व्स्था, भाषा सांिचना आहद का भाषा िेज्ञानक अध्ययन-हिंेचन। िेिनागिी हलहप का परिचय और मानकीकिर् का अध्ययन।	<ul style="list-style-type: none"> <li>भाषा, भाषक व्स्था, भाषा सांिचना आहद का भाषा िेज्ञानक अध्ययन-विंेचन। देिनागिी ललप का परिचय और मानकीकिर् का अध्ययन।</li> </ul>
278	HINDI SAHITYA KA ITIHAS	718	आठिी-निीं शताब्दी से लेकि आधुनक काल के पूिण तक के विकास परिदृश्य के साथ साहित्यक सृजनशीलता केहिध रूप ां, ि्रहिय ां और भाषा शैल्य ां का ज्ञान।	<ul style="list-style-type: none"> <li>आठिी-निीं शताब्दी से लेकि आधुनक काल के पूिण तक के विकास परिदृश्य के साथ साहित्यक सृजनशीलता के विविध रूपों, ि्रवियों और भाषा शैलियों का ज्ञान।</li> </ul>
279	MADHYAKALIN KAVYA	814	हिन्दी साहित्य के "स्वर्ण युग" की समीक्षा और मित्पूर्ण कहिय ांि चनाओं का परिचय।	<ul style="list-style-type: none"> <li>हिन्दी साहित्य के "स्वर्ण युग" की समीक्षा और मित्पूर्ण कवियों ि चनाओं का परिचय।</li> </ul>
280	CHHAYAVADOTTAR KAVYA	815	छायािे कपश्चात् की मित्पूर्ण काव्य धािेँ और मित्पूर्ण कहिय ां-िचनाओं का अध्ययन-हिंेचन।	<ul style="list-style-type: none"> <li>छायािेद के पश्चात् की मित्पूर्ण काव्य धािेँ और मित्पूर्ण कवियों-िचनाओं का अध्ययन-विंेचन।</li> </ul>



297	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>
298	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>
299	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>
300	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>
301	TWENTIETH CENTURY WORLD	820	Political condition of the World after WW II, role of U.N.O. in keeping peace and disarmament in the World.	<ul style="list-style-type: none"> <li>Understand Political condition of the World after WW II,</li> <li>Understand the role of U.N.O. in keeping peace and disarmament in the World.</li> </ul>
302	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>
303	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>
304	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>
305	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>
306	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>
307	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>
308	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>
309	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>
310	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>
311	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>
312	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>
313	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>

314	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>
315	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>
316	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>
317	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>
318	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>
319	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>
320	POLITICS OF DEVELOPING COUNTRIES	825	Different types of governance and their comparative study. America as presidential form, UK as parliamentary form, Switzerland as plural form and China as totalitarian form . form, UK as parliamentary form, Switzerland as plural form and China as totalitarian form .	<ul style="list-style-type: none"> <li>Understand different types of governance and their comparative study</li> <li>Understand America as presidential form, UK as parliamentary form, Switzerland as plural form and China as totalitarian form</li> </ul>
321	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>
322	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>
323	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>
324	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>
325	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>
326	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>
327	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>

328	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>
329	HUMAN RIGHTS: PROBLEMS AND PROSPECTS	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>
330	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>
331	VIVA VOCE		Help the student to research in the field and to present their knowledge.	
332	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>
333	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>
334	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>
335	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>
336	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>
337	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>
338	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>
339	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>
340	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>
341	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>
342	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>
343	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>

344	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>
345	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>
346	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>
347	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>
348	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>
349	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>
350	URDU DASTAN	731		
351	URDU TAREEKH JAWANE	732		
352	URDU TANQID VA NIGAR	733		
353	URDU DRAMA	734		
354	URDU RESEARCH METHODOLOGY	831		
355	TAREEKH-E-ADAB-E-URDU	832		
356	URDU TABAAT, SAHAFAT&TARJUNA	833		
357	URDU MAZMOON NIAGRI	834		
358	VIVA VOCE			
359	URDU DASTAN	931		

360	URDU TAREEKH JAWANE	932		
361	URDU TANQID VA NIGAR	933		
362	URDU DRAMA	934		
363	URDU RESEARCH METHODOLOGY	1031		
364	TAREEKH-E-ADAB-E-URDU	1032		
365	URDU TABAAT, SAHAFAT & TAJUNA	1033		
366	URDU MAZMOON NIAGRI	1034		
367	VIVA VOCE			
368	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>
369	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>
370	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>
371	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>
372	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>

373	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>
374	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>
375	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>
376	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>
377	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>
378	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>
379	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>
380	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>
381	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>
382	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>
383	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>
384	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>

385	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>
386	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>
387	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>
388	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>
389	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>
390	TAXONOMY & DIVERSITY OF ANGIOSPER MS	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>
391	PLANT BIOCHEMISTRY & ENZYMOMOLOGY	738	To study energy flow, membrane transports enzymology, phytohormones, photochemistry and photosynthesis. Detail study of Chromatographic studies of pigments and soil analytical studies	<ul style="list-style-type: none"> <li>Understand energy flow, membrane transports enzymology, phytohormones, photochemistry and photosynthesis.</li> <li>Understand Chromatographic studies of pigments and soil analytical studies.</li> </ul>
392	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>
393	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>
394	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>

395	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>
396	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>
397	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>
398	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>
399	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>
400	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>
401	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>
402	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>
403	PLANT PATHOLOGY & PHYSIOLOGY OF PARASITISM	938	Fungal bacterial and viral dishes symptoms their pathogenicity and defence mechanism.	<ul style="list-style-type: none"> <li>Understand fungal bacterial and viral dishes symptoms their pathogenicity and defence mechanism.</li> </ul>
404	PRACTICAL – I		Anatomical studies through section cuttings.	<ul style="list-style-type: none"> <li>Anatomical studies through section cuttings.</li> </ul>
405	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>
406	EMBRYOLOGY & PLANT RESOURCES	1035	Structure and development of male and female gametophyte vivo and vitro fertilization, seed and fruit 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 structure and development of male and female gametophyte</li> <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>

407	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>
408	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>
409	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>
410	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>
411	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>
412	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>
413	ORG. CHEM STEROCHEMISTRY&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>
414	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>
415	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>
416	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>
417	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>

418	INORGANIC CHEMISTRY	839	Metal legend equilibria, Reaction mechanism of transition Metal complexes, Metal $\pi$ -complexes, Metal cluster, Isopoly and Heteropoly acid and salt.	<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>
419	ORGANIC CHEMISTRY	840	Electrophonic and Nucleophilic substitution reaction, Free radical reactions and Addition reaction, Elimination reactions.	To understand Electrophonic and Nucleophilic substitution reaction, Free radical reactions and Addition reaction, Elimination reactions.
420	PHYSICAL CHEMISTRY	841	Quantum chemistry, Thermodynamics, Non-equilibrium thermodynamics, Chemical dynamics, Surface chemistry.	Understand Quantum chemistry, Thermodynamics, Non-equilibrium thermodynamics, Chemical dynamics, Surface chemistry
421	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.	Understand Electronic, Magnetic resonance spectroscopy, X-ray diffraction, Learn Introduction of Computer and Computer Programming in "C", Programming in Chemistry Understand the use of Computer programmes.
422	PRACTICAL - I		the theoretical, principles and conclusion of experimental findings and an ability to analyse the data interpret the result.	Understand the theoretical, principles and conclusion of experimental findings Analyse the data for result
423	PRACTICAL – II		An ability to use modern instrumentation for various chemical analyses.	Apply modern instruments for various chemical analysis
424	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.	Understand 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.
425	BIO-INORGANIC & BIOPHYSICAL 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.	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.
426	ENVIRONMENTAL CHEMISTRY	941	Environment, Hydrosphere, Atmosphere, Industrial pollution, Environmental Toxicology.	Understand Environment, Hydrosphere, Atmosphere, Industrial pollution, Environmental Toxicology.
427	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.	Understand 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.

			& more Hetero atoms, Seven & Large membered Heterocycles of organic chemistry.	
428	PRACTICAL –I		To develop critical thinking and efficient problem-solving skills in all four basic areas of chemistry.	To develop critical thinking and efficient problem-solving skills in all four basic areas of chemistry.
429	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>
430	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>
431	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>
432	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>
433	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>
434	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>

435	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>
436	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>
437	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>
438	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>
439	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>
440	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>
441	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>
442	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>
443	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>
444	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>

445	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>
446	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>
447	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>
448	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>
449	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 research concerned with fuzzy sets.	<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>
450	OPERATION RESEARCH H- 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>
451	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>
452	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>

453	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>
454	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>
455	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>
456	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>
457	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>
458	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>
459	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> <li>Understand the important connections between theory and experiment.</li> </ul>
460	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>
461	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>
462	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>

463	ELECTRODYNAMIC S 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>
464	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>
465	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>
466	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 Numerical computations and solutions.</li> <li>Build connections between mathematical development and conceptual understanding</li> </ul>
467	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>
468	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>
469	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> <li>Grasp knowledge about Nuclear reactions, Fission and Fusion and their characteristic</li> </ul>
470	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>

471	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>
472	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>
473	COMPUTATIONAL METHODS AND PROGRAMMING	1048	FORTRAN 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>
474	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>
475	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>
476	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>
477	PRACTICAL - I		Understand the programming of microprocessor.	<ul style="list-style-type: none"> <li>Understand the programming of microprocessor.</li> </ul>
478	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>
479	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>
480	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>
481	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>
482	PRACTICAL - I		Understand systemic position and organization of animals through study of classification in	<ul style="list-style-type: none"> <li>Understand systemic position and organization of animals</li> </ul>

			depth.	
483	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>
484	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>
485	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>
486	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>
487	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>
488	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>
489	PRACTICAL – II		Study the Ecological aspect of behaviour	<ul style="list-style-type: none"> <li>Study the Ecological aspect of behavior</li> </ul>
490	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>
491	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>
492	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>
493	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>

494	PRACTICAL -I		Cellular mechanism at molecular level	<ul style="list-style-type: none"> <li>Understand cellular mechanism at molecular level</li> </ul>
495	PRACTICAL –II		Chromatography and pigment separation.	<ul style="list-style-type: none"> <li>Understand Chromatography and pigment separation.</li> </ul>
496	GAMETE BIOLOGY & REPRODUCTIVE PHYSIOLOGY OF HUMAN BEINGS	1052	Structure and development of gametes, modern techniques for preservation of gametes. Multiple Ovulation and Embryo Transfer Technology	<ul style="list-style-type: none"> <li>Understand Structure and development of gametes,</li> <li>Understand modern techniques for preservation of gametes.</li> </ul>
497	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>
498	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>
499	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>
500	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>
501	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>
502	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>
503	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>
504	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>
505	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>
506	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>
507	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>

508	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>
509	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>
510	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>
511	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>
512	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>
513	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>
514	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>
515	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>
516	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>
517	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>
518	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>
519	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>
520	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>
521	ADVANCED STUDY IN HUMAN DEVELOPMENT	761	To undertake an advanced study of the stages in Human	<ul style="list-style-type: none"> <li>To undertake an advanced study of the stages in Human Development.</li> </ul>

			Development.	
522	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>
523	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>
524	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>
525	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>
526	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>
527	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>
528	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>
529	STATISTICS & COMPUTER APPLICATION	863	To 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>
530	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>
531	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>
532	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>
533	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>
534	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>
535	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>
536	PRACTICAL -I		To understand the practical applications of theory.	<ul style="list-style-type: none"> <li>Understand the practical applications of theory.</li> </ul>
537	PRACTICAL –II		To be familiar with research trends in the field of culture and	<ul style="list-style-type: none"> <li>Understand research trends in the field of culture and families.</li> </ul>

			families.	
538	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>
539	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>
540	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>
541	PRINCIPLES OF GUIDANCE & COUNSELING	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>
542	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>
543	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>
544	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>
545	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>
546	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>
547	CORPORATE FINANCIAL ACCOUNTING	767	To expose students to advance accounting issues and practices such as maintenance of company accounts, valuation of goodwill and shares and handling accounting adjustment.	<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>
548	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>
549	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>

550	ORANISATION AL 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>
551	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>
552	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>
553	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>
554	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>
555	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>
556	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>
557	STATISTIC AL 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>
558	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>
559	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>
560	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>

561	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>
562	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>
563	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>
564	RESEARCH METHODOLOGY IN COMMERCIAL	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>
565	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>
566	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>
567	Tourism: Certificate Course Paper - II	251	Tourism production	<ul style="list-style-type: none"> <li>Understand Production of Tourism</li> </ul>
568	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>
569	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>
570	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>
571	Viva Voce	255	Excursion report and presentation	<ul style="list-style-type: none"> <li>Learn to prepare Excursion report and presentation</li> </ul>
572	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>
573	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>
574	Project/Viva Voce	258	dissertation and Videos	
575	Communicative English: Certificate Course Paper - I	138	An Introduction to Phonetics	<ul style="list-style-type: none"> <li>Understand Phonetics</li> </ul>
576	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>
577	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>

578	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>
579	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>
580	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>
581	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>
582	Applied Sociology Certificate Course Paper - II	111	Sociology of Religion	<ul style="list-style-type: none"> <li>Understand Sociology of religion</li> </ul>
583	Viva Voce	112	Rural leadership, casteism, relationship etc. - project work.	<ul style="list-style-type: none"> <li>Understand Rural leadership, casteism, relationship</li> </ul>
584	Applied Sociology: Diploma Course Paper - I	113	Industrial sociology	<ul style="list-style-type: none"> <li>Understand Industrial sociology</li> </ul>
585	Applied Sociology: Diploma Course Paper - II	114	Environmental Sociology	<ul style="list-style-type: none"> <li>Understand Environmental Sociology</li> </ul>
586	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>
587	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>
588	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>
589	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>
590	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>
591	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>
592	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>
593	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>
594	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>

595	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>
596	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>
597	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>
598	Practical	177	Extraction process, Chromatography, Ore analysis etc.	<ul style="list-style-type: none"> <li>Understand Extraction process, Chromatography, Ore analysis</li> </ul>
599	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>
600	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>
601	Practical	183	Instrumental methods of analysis	<ul style="list-style-type: none"> <li>Understand Instrumental methods of analysis</li> </ul>
602	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>
603	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>
604	Practical	180	Material testing, water analysis etc.	<ul style="list-style-type: none"> <li>Understand Material testing, water analysis</li> </ul>
605	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>
606	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>
607	Practical	158	Practical aspects based on theory	<ul style="list-style-type: none"> <li>Understand Practical aspects based on theory</li> </ul>
608	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>

609	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>
610	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>
611	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>
612	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>
613	Anatomy and Physiology			
614	Practical			
615	Onco-nutrition			
616	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, Karyalayeem Hindi, paribhashik Shabdawali, English to Hindi Anuwad, Chhattisgarhi to Hindi Anuwad etc	<ul style="list-style-type: none"> <li>Understand Anuvaad, Prakriya aur Pravidhi, Karyalayeem</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	BZOOlst201	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, Regulations applicable for Products and Process	<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> <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, Seemaen, 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, Seemaen, 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 relationship, Family interaction and communication.	<ul style="list-style-type: none"> <li>Understand family structure</li> <li>Understand types of families</li> <li>Understand functions of family</li> <li>Understand customs of family</li> </ul>
38.	Ergonomics	BBHSC 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	BZOLGT101	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, 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>
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>

  
Principal  
Govt. Bilaspur Girls P.G. College  
(Autonomous College)  
Bilaspur (C.G.)

## LIST OF REVISED COURSES (2023-2024)

SN.	Name of the Course	Course Code	Description	Course Learning Outcome
1.	Basic English Communication Skills	EngAEC003	Grammar, Listening, Speaking, Reading, and Basic Writing. Aspects of pronunciation and fluency in speaking. Reading text, expanding given sentences, reorganizing jumbled sentences, and drafting diverse types of letters.	<ul style="list-style-type: none"> <li>Identify deviant use of English.</li> <li>Understand the importance of reading and writing.</li> <li>Develop an interest for reading.</li> <li>Recognized their own ability to improve their competence.</li> </ul>
2.	अर्वाचीन हिन्दी काव्य	BHINC03	हिन्दी साहित्य के इतिहास का आधुनिक काल मैथिलीशरण गुप्त-काव्यशिक्षा, शुभकामना माखनलाल चतुर्वेदी- पुष्प की अभिलाषा, उलाहना मुकुटधर पाण्डेय - कुररी के प्रति की पांच कविताएं जयशंकर प्रसाद - आंसू के प्रारंभिक 2 पृष्ठ महादेवी वर्मा- मैं नीर भरी दुःख की बदली, मधुर-मधुर मेरे दीपक जल सुमित्रानंदन पंत परिवर्तन प्रथम अंश, नौका विहार, ताज सूर्यकांत त्रिपाठी निराला- सखि वसंत आया, तोड़ती पत्थर अज्ञेय - नदी के द्वीप, साम्राज्य का नैवेद्य दान दुतपाठ- <ul style="list-style-type: none"> <li>अयोध्यासिंह उपाध्याय</li> <li>सुभद्रा कुमारी चौहान</li> <li>मुक्तिबोध</li> <li>श्रीकांत वर्मा</li> </ul>	<ul style="list-style-type: none"> <li>विद्यार्थी आधुनिक काव्य की युगीन प्रवृत्तियों एवं विशेषताओं से परिचय होंगे।</li> <li>आधुनिक साहित्य के माध्यम से राष्ट्रीयता, सहिष्णुता, सद्भावना व मानवीय मूल्यों का विकास होगा।</li> <li>युगीन भाषा, संस्कृति और समय की समझ पैदा होगी।</li> <li>विद्यार्थी आधुनिक काव्य के अध्ययन से स्वतंत्रता के पूर्व और पश्चात् की भाषा शैली एवं वैचारिक यात्रा से परिचित होंगे।</li> </ul>
3.	भाषा विज्ञान भाषा विज्ञान	DSEHIN03	भाषा की परिभाषा और अभिलक्षण भाषा विज्ञान के अध्ययन की दिशाएं- ऐतिहासिक, वर्णनात्मक, तुलनात्मक ध्वनियों का वर्गीकरण, स्वरों का वर्गीकरण, व्यंजनों का वर्गीकरण अर्थ विज्ञान- अर्थ की अवधारणा, शब्द और अर्थ का संबंध	<ul style="list-style-type: none"> <li>विद्यार्थी भाषा की संरचना से परिचित होंगे।</li> <li>विद्यार्थी शुद्ध उच्चारण से परिचित होंगे।</li> <li>भाषा के अर्थबोध का ज्ञान होगा।</li> <li>भाषा की विशाल शब्द सम्पदा का प्रयोग कर पायेंगे।</li> </ul>
4.	Modern Indian Literature	EngCT301	Literary text in terms of genre. Issues of environment, religion and spirituality interpreted through specific Literary Texts.	<ul style="list-style-type: none"> <li>To learn Literary cultures in India, issues of genres and themes.</li> <li>To understand and engage on issues specific to modern India.</li> <li>To demonstrate the ability to read literary texts and explain the eco-socio-political cultural context.</li> <li>Critically appreciate the use of English in India.</li> </ul>
5.	Modern Indian Writing in English Translation	DSEng301	Literary texts translated in English, issues of environment, religion and spirituality interpreted through specific Literary Texts.	<ul style="list-style-type: none"> <li>To learn the diversities of Modern Indian Literatures.</li> <li>To understand the notion of Nation and Nationalism.</li> <li>To appreciate the impact of Literary movements on various Indian Literatures.</li> <li>To understand and explain the historical trajectories of Indian Literatures.</li> <li>Critically engage with social issues like caste and gender.</li> </ul>
6.	Naatak tatha Vyakaran	BSanCT103	नागानन्दनाटकम् अंक 1-5 पर्यन्त (व्याख्या तथा समीक्षात्मक प्रश्न) नाट्यविद्या और रंगकर्म - नाट्य-लक्षण, चतुर्विध अभिनय, कथावस्तु- मुख्य- गौण, नायकभेद । नाट्यशास्त्रीय परिभाषा - नान्दी, सूत्रधार, नेपथ्य, प्रस्तावना, स्वगत, प्रकाश, जनान्तिक, अपवारित, कंचुकी,	<ul style="list-style-type: none"> <li>अभिनय कला के सांगोपांग ज्ञान से सम्बन्धित क्षेत्र में व्यावसायिक अवसर की संभावना बनेगी ।</li> <li>पाठ्य नाटक से पर-हितार्थ सहयोग तथा त्याग-भावना की प्रवृत्ति उदित होगी।</li> <li>व्याकरण के अनुशीलन से पदच्छेद, पदों के समास तथा वाक्यों के वाच्य- परिवर्तन की क्षमता निर्मित होगी ।</li> <li>संस्कृत संभाषण-लेखन का कौशल विकसित होगा ।</li> </ul>

			विदूषक, भरतवाक्य । समास प्रकरण (लघुसिद्धान्तकौमुदी) वाच्यभेद - कर्तृवाच्य, कर्मवाच्य, भाववाच्य	
7.	Kavi evam Kaavya	DSESan103	जीवन परिचय, ग्रन्थ परिचय एवं काव्यगत वैशिष्ट्य परिचय, जीवन दर्शन एवं साहित्य में स्थान ऋतुसंहार, मेघदूतम्, कुमारसंभव तथा रघुवंशम् (ग्रन्थ परिचय एवं काव्यगत वैशिष्ट्य विक्रमोर्वशीयम्, मालविकाग्निमित्र तथा अभिज्ञानशाकुन्तलम् । (ग्रन्थ परिचय एवं काव्यगत वैशिष्ट्य	•
8.	Western Political Thought	BPOLCT10 3	Special reference to concept of Ideal State Education, State Classification of Constitution, Religion Ethics and Contribution of Political Philosophy. Idea of Social Contract Theory. Theory of Class Struggle, Theory of Surplus Value. Concept of State, Government, Liberty-Contribution of Pity Philosophy	<ul style="list-style-type: none"> <li>• To study the thoughts of Western Thinker.</li> <li>• Ability to contribute to the development of the form of Freedom Equality, Justice Nationalism and Democracy.</li> <li>• Able to study Idealism and Realism of Western Politics.</li> <li>• Develop thinking ability to conceptualized reasoning.</li> </ul>
9.	Indian Political Thought	BPOLDSE1 03	Philosophy and Religious Thought. The social contribution of Raja Ram Mohan Roy, Swami Vivekananda, Liberal Ideology in Indian Thought. Thoughts of Liberals towards British Rule in India. Political, social, economic and educational thoughts. Extremist Ideology in Indian Thought, reasons for the rise of militant, nationalism, progress, methodology and evaluation.	<ul style="list-style-type: none"> <li>• Able to be aware of the ideologies related to Modern Political Thought.</li> <li>• Develop analytical and logical ability by understanding the thoughts of different thinkers.</li> <li>• Understand and evaluate various streams of Political Thoughts.</li> </ul>
10.	Sociology of tribal society	BSocCT103	Classification of tribal people. Socio – cultural Profile of tribes. Various Tribal movements, Tribal problems, illiteracy, indebtedness, and agrarian issues	<ul style="list-style-type: none"> <li>• Understand socio-culture of tribes</li> <li>• Learn the habitats and occupation</li> <li>• Aware of the problems of tribes</li> </ul>
11.	Sociology of Kinship, marriage and family	BSocDSE1 03	Origin of Sociology of Kinship, marriage, and family in India. Significance of Sociology of Kinship, marriage, and family. Dowry system, Bride price and Women Wealth. Structure and Composition of family	<ul style="list-style-type: none"> <li>• Understand the kinship, marriage, and family</li> <li>• Understand the dowry system</li> <li>• Learn the bride – price, women wealth,</li> <li>• Learn the structure and composition of family</li> </ul>
12.	History of India (1206- 1761)	BHIST301	Main dynasties, policies and system of Medieval India and Chhattisgarh	<ul style="list-style-type: none"> <li>• Able to understand Medieval Indian History and culture.</li> <li>• Develop different point of view on Indian History with special reference to Chhattisgarh</li> </ul>
13.	Culture and Civilization (1206-1761 A.D.)	BHIST302	The changes and continuities in the field of culture, specially with regards to arts, architecture, culture, Bhakti and Sufi movement.	<ul style="list-style-type: none"> <li>• Able to identify the major cultural development in the history of India.</li> <li>• To know more about society, economy, education, literature and arts of medieval India.</li> </ul>
14.	Macro Economics and International Trade	BECO301	The basic concept of Macro Economics. Different variables of the Aggregate Economy. The concept of various International Institutions and Trade Policies	<ul style="list-style-type: none"> <li>• Develop a critical understanding of various concepts of Macro Economics.</li> <li>• Explain the various principles and theories of employment.</li> <li>• State the importance of investment for expansion of business.</li> <li>• Aware of contemporary issues in an Economy.</li> <li>• Compare current situations of economy.</li> </ul>
15.	International Trade	BECO302	Meaning and importance of International Trade. Adam Smith's Absolute Advantage Theory, Mill's Theory of Reciprocal Demand. Terms of Trade- meaning, types, importance and difficulties.	<ul style="list-style-type: none"> <li>• Describe the concept of International Trade.</li> <li>• Illustrate different theories of International Trade.</li> <li>• Compare the Foreign Exchange rate between countries.</li> <li>• Analyze the functions of International Economic Institutions.</li> </ul>
16.	Physical Geography: Climatology and Oceanography	BGEOCT30 1	Composition and structure of Atmosphere, Insolation, and heat balance of earth. Humidity, evaporation and condensation.	<ul style="list-style-type: none"> <li>• Understand the elements of weather and climate and impact at different scales.</li> <li>• Understand the ocean floor, relief of ocean bottom and properties of ocean.</li> </ul>

			Nature and scope of Oceanography. Interlink between atmospheric circulation and circulation patterns in the oceans.	<ul style="list-style-type: none"> <li>Understand the oceanic process and availability of resources.</li> </ul>
17.	Weather Maps and Map Projection	BGEOCP301	Interpretation of weather maps, use of metrological instruments. Representation of climatic data- Hyther graph, Climograph, Wind vane. Map projection.	<ul style="list-style-type: none"> <li>Demonstrate the basic facts relating to Meteorology and Weather Forecast.</li> <li>Understand the various map projections.</li> </ul>
18.	Economics and Resource Geography	BGEODSE-T-301	Meaning, scope, and approaches to Economic Geography. Mineral resources, agricultural regions of the world, Theory of Industrial Location, Major Industries, etc. World Transportation, International Trade, Major Trade Blocks, Effect of Globalization on Developing Countries.	<ul style="list-style-type: none"> <li>Understand the basic economic processes, production, exchange, consumption, and its application.</li> <li>Understand the fundamental theories in Economic Geography.</li> <li>Understand and apply the modes of Economic Development.</li> </ul>
19.	Computer Cartography and Remote Sensing	BGE-DSEP-301	Rainfall dispersion diagram, Ergograph, Water balance diagram. Computer Cartography, fundamental of Remote Sensing and GIS.	<ul style="list-style-type: none"> <li>Observe different equipments, techniques and products.</li> <li>Review on development of Indian Remote Sensing and Functions of GIS.</li> </ul>
20.	Foundations of Social Psychology	BPsyCT301	Definition and nature of Social Psychology. Social cognition and attitudes. Affective processes in social context.	<ul style="list-style-type: none"> <li>Understand the basic social psychological concepts with relevant methods.</li> <li>Understand the applications of social psychology.</li> <li>Familiarize with the concepts of Social Affect.</li> <li>Understand pertaining to social influence processes.</li> </ul>
21.	Lab work/ Psychological testing	BPsyCP301		<ul style="list-style-type: none"> <li></li> </ul>
22.	Positive Psychology	BPsyDT301	Positive Psychology- Meaning and Definition. Happiness and well-being. Emotions, personality traits and well-being. Virtues, character strengths and well-being.	<ul style="list-style-type: none"> <li>Appreciate and understand the meaning and conceptual approaches to happiness and well-being.</li> <li>Able to locate the diversity in the experiences of happiness.</li> <li>Learning the various pathways of positive emotions and positive traits.</li> <li>Able to identify the key virtues and character strengths.</li> </ul>
23.	Lab work/ Psychological testing	BPsyDP301		<ul style="list-style-type: none"> <li></li> </ul>
24.	Home Science	BAHSC-3T	Home management, decoration, garments fabric printing etc.	<ul style="list-style-type: none"> <li>To understand basic knowledge of structures of various fibres.</li> <li>To understand the basic knowledge of chemistry and reaction towards chemicals</li> <li>Understand the basic knowledge of stain removal</li> <li>Understand the basic knowledge of soap and detergents</li> </ul>
25.	Home Science Practical 3	BAHSC-3P		<ul style="list-style-type: none"> <li>To Understand home Management</li> <li>To Understand work simplification</li> <li>To Understand Textile Technology</li> <li>To Understand dyeing process</li> <li>To Understand Interior Decoration</li> </ul>
26.	Music (Gayan/ Vadan-Taarvadya)	BMUS301	ग्रह स्वर 2) अंश स्वर 3) पर्याय अंश स्वर 4) न्यास स्वर 5) अल्पत्व-बहुत्व 6) अविर्भाव-तिरोभाव 7) जमजमा 8) निबद्ध अनिबद्ध गान 9) घसीट 10) कृन्तन 11) शुद्ध - छायालग संकीर्ण राग। संवादत्व की परिभाषा, स्वर-संवाद के प्रकार संवाद, षड्ज पंचम संवाद, षड्ज-षड्ज संवाद ।	<ul style="list-style-type: none"> <li>इस पाठ्यक्रम के द्वारा विद्यार्थियों को हिन्दुस्तानी संगीत पद्धति की एवं संगीत के इतिहास की जानकारी उपलब्ध कराना है।</li> <li>संगीत के पारिभाषिक शब्दों और स्पष्टीकरणों से अवगत करना।</li> <li>संगीतज्ञों एवं ग्रंथकारों के जीवन परिचय व उनके सांगीतिक योगदान से अवगत कराना।</li> <li>हिन्दुस्तानी संगीत शैलियों का परिचय।</li> <li>संवाद तत्व की जानकारी।</li> <li>वाद्यों के प्रकारों की जानकारी।</li> </ul>
27.	Music (Gayan/ Vadan-Taarvadya) Practical	BMUSP301	पाठ्यक्रम के निर्धारित रागों का अध्ययन पाठ्यक्रम के निर्धारित तालों का अध्ययन निर्धारित रागों में सरगम एवं लक्षणगीतों का गायन / वादन अभ्यास । राष्ट्रगीत, राष्ट्रगान एवं एक भजन / धुन का गायन/वादन। छत्तीसगढ़ के राज्य गीत "अरपा पैरी के घर....." का गायन/वादन। निर्धारित तालों का दुगुनलयकारी सहित अभ्यास ।	<ul style="list-style-type: none"> <li>पाठ्यक्रम के निर्धारित रागों एवं तालों का परिचय ।</li> <li>अपेक्षाकृत क्लिब्ड अलंकारों व शुद्ध - विकृत स्वरों का परिचय ।</li> <li>आलाप-तानों के अपेक्षाकृत उच्चतर मानकों से परिचय ।</li> <li>दुगुन लयकारी का परिचय एवं ज्ञान।</li> <li>वाद्ययंत्र बजाने की तकनीक का ज्ञान।</li> </ul>

28.	Dastaan, Naavil-Afsana	BURD301	दास्तान :-किस्सा आजाद बख्त मीर अम्मन बन्दर की तकरीर फसाना-ए-अजायब 2. नाविल :- तलखिस शरीफ जादा मिर्जा हादी रूसवा। 3. अफसाना:- कफन, नया कानून, महालक्ष्मी का पुल- लाजवन्ती, चौथी का जोड़ा।	
29.	Hindi Bhasha	BHindi AECC002	Stories, essays, paryayvachi, computer – its introduction, basic use, idioms and phrases	<ul style="list-style-type: none"> <li>हिन्दी भाषा और साहित्य का परिचय और समझ विकसित होती है</li> <li>साहित्य और गाथायी मूल्यांकन क्षमता विकसित होती है।</li> <li>हिन्दी व्याकरण परिचय से भाषा शुद्धि और भाषायी सामर्थ्य बढ़ती</li> <li>4. हिन्दी में कम्प्यूटर क्षमता का विकास</li> </ul>
30.	Hindi Naatak Ekanki evam Nibhandh	BHINC401	Hindi play, one act play, essays,	<ul style="list-style-type: none"> <li>हिन्दी नाटक, एकांकी एवं निबंध साहित्य से परिचित होंगे।</li> <li>विद्यार्थियों में साहित्य अध्ययन से संवेदनशिलता एवं मानवीय गुणों का विकास होगा।</li> <li>साहित्य के क्षेत्र में सर्जनात्मक लेखन एवं समीक्षा की प्रक्रिया से परिचित होंगे। और रचनाओं के प्रकाशन तथा अध्यापन के क्षेत्र में रोजगार प्राप्ति के अवसर प्राप्त होंगे।</li> </ul>
31.	Kavya Shastra	BHINDSE401	Kavya lakshan, Kavya prayojan, shabdh shakti, Novels, Short Stories	<ul style="list-style-type: none"> <li>विद्यार्थियों में साहित्य सृजन की प्रतिभा विकसित होगी।</li> <li>शब्द सामर्थ्य से परिचित होंगे।</li> <li>साहित्य की विभिन्न विधाओं से परिचित होंगे।</li> <li>लेखन शैली विकसित होगी।</li> </ul>
32.	New Literatures in English	EngCT401	Poetry, Fictions, Novels, Short Stories	<ul style="list-style-type: none"> <li>To Learn and Appreciate Literary texts from parts of the World</li> <li>To analyze and interpret Literary texts</li> <li>To examine different ways of reading classical authors, genres, and periods</li> <li>Explain the concept of new literatures in relation to another related concepts</li> <li>Develop ability to pursue research in the field of new literatures in English</li> </ul>
33.	Literature and Cinema	DSEng401	Read a film, Cinematic Adaptations, Adaptation of Literary text, Film based on Indian Classic fiction	<ul style="list-style-type: none"> <li>Demonstrate a systematic and historically grounded knowledge of literature and cinema</li> <li>Identify and illustrate the distinction between literary and cinematic arts or storytelling</li> <li>Identify and describe the difference between cinematic and literary images</li> <li>Examine different theories of adaption and link them to contexts of expression and reception</li> <li>Present a coherent view of the relationship between written and cinematic texts.</li> </ul>
34.	Kavya tatha Sahityeitihas	BsanCT104	Raghuvanshamahakavya, Nitishatkam, Adhunik sanskrit kavi parichya, natak	<ul style="list-style-type: none"> <li>काव्य के दृश्य-श्रव्य आदि भेदोपभेदों का सम्यक् ज्ञान होगा।</li> <li>विभिन्न ऐतिहासिक वृत्तों की जानकारी प्राप्त होगी।</li> <li>पाठ्यविषय से भारतीय सांस्कृतिक मूल्यों से सुपरिचित हो सकेंगे।</li> <li>नैतिक चिन्तन की क्षमता में अभिवृद्धि होगी और चारित्र्य-विकास होगा।</li> <li>आधुनिक युग की संस्कृत रचनाओं की जानकारी प्राप्त होगी।</li> </ul>
35.	Kavi evam Naatak	BsanDSE104	Natya granth, Mahakavi Vyas, Kalidas, Bhavbhuti, Shudrak	<ul style="list-style-type: none"> <li>काव्य के दृश्य-श्रव्य आदि भेदोपभेदों का सम्यक् ज्ञान होगा।</li> <li>विभिन्न ऐतिहासिक वृत्तों की जानकारी प्राप्त होगी।</li> <li>पाठ्यविषय से भारतीय सांस्कृतिक मूल्यों से सुपरिचित हो सकेंगे।</li> <li>नैतिक चिन्तन की क्षमता में अभिवृद्धि होगी और चारित्र्य-विकास होगा।</li> <li>आधुनिक युग की संस्कृत रचनाओं की जानकारी प्राप्त होगी।</li> </ul>
36.	Comparative Government and Politics	BPOLCT104	Comparative politics, Constitutional, Political, legal formation	<ul style="list-style-type: none"> <li>Broad understanding of Comparative Politics and different governing systems</li> <li>Learn comparative methods in research</li> <li>Analytical and logical ability to develop comparative study</li> </ul>

37.	Public Administration and Research Methodology	BPOLDSE104	Public administration, Personal administration, Tabulation, Codification, report writing	<ul style="list-style-type: none"> <li>To make aware about the public administration</li> <li>Aware of the information related to public service, recruitment, promotion, training etc.</li> <li>To adopt the scientific study method in research</li> </ul>
38.	Crime and Society	BSocCT104	Concept of crime, Criminality and Suicide, Punishment, Correctional Process	<ul style="list-style-type: none"> <li>Understand the basic concept of punishment after crime</li> <li>Learn the process and correction measures</li> </ul>
39.	Religion and Society	BSocDSE104	Sociology of religion, sacred and profane, rites of passage, Christianity, Buddhism, secularism	<ul style="list-style-type: none"> <li>Learn the need of society</li> <li>Understand the different religion</li> </ul>
40.	History of World (1871-1945 AD)	BHIST-104	Third Republic in France, Chinese Revolution in 1911, Safety measures, second World War	<ul style="list-style-type: none"> <li>To understand the World history</li> <li>To learn the political condition in the World</li> <li>Understand the policies during the period</li> </ul>
41.	Contemporary World	BHISTDSE402	World history, Privatisation, globalisation, Cold War, World war	<ul style="list-style-type: none"> <li>Understand the concept of the World history</li> <li>Learn liberalisation, Privatization, and globalization</li> <li>Learn about Cold War, World War etc</li> </ul>
42.	Money Banking and Public Finance	BECO-401	Money – Classification, importance, Gresham’s law, commercial banking, Public finance, Sources of public revenue, public budget	<ul style="list-style-type: none"> <li>To develop a understanding of the nature of of money, its function and its role</li> <li>To develop the concept of structure and role of financial market and institutions.</li> <li>Learn about the government intervention and its allocation, distribution and stabilization</li> <li>Acquire the knowledge of public goods, market failure</li> <li>Understand the process of preparation and passing of budget in India</li> </ul>
43.	Public Finance	BECODSE402	Public and private finance, public expenditure, public revenue – its meaning and classification Concept of taxation, budget, deficit financing, federal finance	<ul style="list-style-type: none"> <li>Compare the significance of public and private finance</li> <li>Define the concepts of public expenditure, public revenue and public debt.</li> <li>Interpret the effects of public expenditure</li> <li>Analyze the different kinds of taxes</li> <li>Illustrate the concept of taxation and budgetary policy</li> </ul>
44.	Geography of India	BGEOCT401	Physical features, Natural resources, cultural features, industries localization, development and production	<ul style="list-style-type: none"> <li>Understand the physiographic division, drainage system, climatic variation of India</li> <li>Examine and understand the developed and underdeveloped part of India</li> </ul>
45.	Statistics Technique and Survey	BGEOCP401	Mapping techniques, statistical methods, Surveying etc.	<ul style="list-style-type: none"> <li>Understand the mapping technique for various geographical data</li> <li>Learn the statistical method and its use in geographical analysis</li> <li>Understand working with prismatic compass of an area</li> </ul>
46.	Population Geography	BGEO-DSET-401	Distribution of population, Population composition, population dynamics	<ul style="list-style-type: none"> <li>To review the demographic pattern of national and international level</li> <li>To understand the composition in terms of age and sex, rural, urban residence, educational status and occupational structure of population</li> <li>To examine the fertility and mortality of Population</li> </ul>
47.	Surveying: Dumpy Level and Theodolite	BGEO-DSEP-401	Land surveying, leveling of nearby area, measurement of building height	<ul style="list-style-type: none"> <li>Determine the relative height and distance between various surveying and locations</li> <li>Determine the close distance between several surveying land locations</li> <li>Use and operate theodolite in the field</li> </ul>
48.	Psychological Assessment	BPsyCT401	Psychological assessment, psychological testing, test and scale construction, test of cognitive ability and personality	<ul style="list-style-type: none"> <li>Develop an understanding of the basic principles of psychological assessment and its various phases</li> <li>Develop the knowledge about the steps in test construction and test standardization</li> <li>Demonstrate the understanding of the impact of cultural contexts on assessment</li> <li>Acquire knowledge to evaluate the appropriateness and quality of psychological tests</li> </ul>
49.	Lab work/ Psychological testing	BPsyCP401	Role of gender in impression formation, intelligence test, aptitude test, social facilitation, social cognition, crowd behaviour	<ul style="list-style-type: none"> <li>Students will be trained to assess psychological characteristics</li> <li>Impart with a variety of skills to administer psychological tests and to ensure the interpretation of reports</li> </ul>
50.	Introduction to Personality	BPsyDT401	Concept and definition of personality, western approaches to personality, and understanding self through eastern perspectives	<ul style="list-style-type: none"> <li>Appreciate the concepts of personality in the Western as well as Eastern traditions</li> <li>Understand self and personality through eastern perspectives</li> <li>Develop a critical understanding of personality</li> </ul>

				<ul style="list-style-type: none"> <li>through Western approaches</li> <li>Understand biological and environmental influences on personality development</li> </ul>
51.	Lab work/ Psychological Testing	BPsyDP401	Role of gender in impression formation, intelligence test, aptitude test, social facilitation, social cognition, crowd behaviour	<ul style="list-style-type: none"> <li></li> </ul>
52.	Home Science Theory	BAHSC-4T	Home management, work simplification, time management, finance management and interior decoration	<ul style="list-style-type: none"> <li>Understand basic knowledge of home management</li> <li>Understand work simplification</li> <li>Understand Finance Management</li> <li>Understand Interior Decoration</li> </ul>
53.	Home Science Practical	BAHSC-4P	Flower arrangement, colour wheel, budget making, kitchen and types of kitchen, path way chart	<ul style="list-style-type: none"> <li></li> </ul>
54.	Music (Gayan/ Vadan-Taarvadya) Theory	BMusCT401		<ul style="list-style-type: none"> <li></li> </ul>
55.	Music (Gayan/ Vadan-Taarvadya) Practical	BMusP401		<ul style="list-style-type: none"> <li></li> </ul>
56.	Urdu	BURD401		<ul style="list-style-type: none"> <li></li> </ul>
57.	Chemistry Theory	BCHEMC30 1T	Chemistry of halogenated hydrocarbons, alcohols, phenols, ethers and epoxides, chemical kinetics, catalysis, oxidation-reduction, and general principle of metallurgy, chemistry of s&p block elements	<ul style="list-style-type: none"> <li>Understand Alkyl Halide and Aryl Halide</li> <li>Learn properties of Alcohol, phenol, ethers and epoxides</li> <li>Learn about Chemical Kinetics and Catalysis</li> <li>To explain metallurgy and Redox Reaction</li> <li>To know about the properties of S and p block elements</li> </ul>
58.	Chemistry Practical	BCHEMC30 1P	Determination of the transition temperature, heat capacity of calorimeter, qualitative analysis of unknown organic compounds, enthalpy of solution, neutralization, and phase diagram	<ul style="list-style-type: none"> <li>To know about principles of thermochemistry</li> <li>To determine transition temperature</li> <li>To find out critical temperature</li> <li>To perform qualitative organic analysis</li> </ul>
59.	Environmental Chemistry	BCHEMD30 1T	Composition of atmosphere, hydrological cycle, chemical composition of atmosphere, lithosphere/ soil, iron exchange reactions in soil	<ul style="list-style-type: none"> <li>To understand the composition of atmosphere</li> <li>To know about biochemical cycles, hydrological cycle and water quality parameters</li> <li>To understand the atmospheric chemical phenomenon and environmental pollution</li> <li>To understand the water pollution, parameters of water pollution, treatment of polluted water</li> </ul>
60.	Environmental Chemistry Practical	BCHEMD30 1P	Water analysis, determination of biological oxygen demand, chemical oxygen demand, estimation of conductivity, measurement of chloride, estimation of SPM in air samples	<ul style="list-style-type: none"> <li>Understand the requirement of water analysis</li> <li>To know about parameters of water analysis</li> <li>To understand the atmospheric chemical phenomenon and environmental pollution</li> </ul>
61.	Plant Systematics and Economic Botany	BBOTDSC T301	Taxonomic resources and nomenclature, types of classification and evidence, families with economic importance, economically valuable plants	<ul style="list-style-type: none"> <li>Understand the plant taxonomy</li> <li>Learn the characteristics of families included</li> <li>Learn economic importance of different plants of the concerned families</li> <li>Understand the traditional knowledge about the plants and possible application</li> </ul>
62.	Plant Systematics and Economic Botany Practical	BBOTDSCP 301	Plant collection, preservation, and documentation, prepare herbarium according to Bentham and Hooker's system of classification, identification of angiospermic plants	<ul style="list-style-type: none"> <li>To observe, record, and employ plant morphological variation and the accompanying descriptive terminology</li> <li>To learn plant specimens</li> <li>To learn various tools and means available to identify plants</li> <li>To identify taxonomically diverse array of native plants</li> <li>To recognize common and major plant families</li> <li>Comprehend the concepts of plant taxonomy and classification of angiosperms</li> </ul>
63.	Ethnobotany	BBOTDSEC T301	Methodology of ethnobotanical studies, role of ethnobotany in modern medicine, ethnobotany in legal aspects	<ul style="list-style-type: none"> <li>Understand the meaning and importance of plant breeding</li> <li>Learn the methods of crop improvement</li> <li>Learn various methods of plant propagation</li> <li>Apply their knowledge in the crop fields to improve crops</li> </ul>
64.	Ethnobotany Practical	BBOTDSE CP301	Study the vegetative and floral characters of ethno medicinal plants, folk medicinal plant, herbal medicinal plants, phytochemical screening	<ul style="list-style-type: none"> <li>To observe, record, and employ plant morphological variation and the accompanying descriptive terminology</li> <li>To learn how plant specimens are collected, documented, and curated</li> <li>To experience the various tools and means available to identify plants</li> <li>To develop observational skills and field experience</li> </ul>

65.	Genetics, Developmental Biology	BZOOLCT-301	Concept of genes, Mendel's law of Inheritance, concept of operon, structural and numerical alterations of chromosomes, developmental biology, concept of competence, determination and differentiation	<ul style="list-style-type: none"> <li>Understand the principles of Mendelian inheritance on interaction of genes.</li> <li>Know various methods of sex determination in animal kingdom.</li> <li>Analyse the cause and effect of alterations in chromosome number and structure.</li> <li>Know the Recent Assisted Reproductive Techniques</li> <li>Develop critical understanding how a single-celled fertilized egg becomes an embryo and then a fully formed adult by going through three important processes of cell division, cell differentiation and morphogenesis.</li> <li>Understand the general patterns and sequential developmental stages during embryogenesis and understand how the developmental processes lead to establishment of body plan of multicellular organisms</li> </ul>
66.	Practical Lab	BZOOLCP-301	Application of probability, study of mode of inheritance, techniques of handling, study of human karyotypes, comparative study of cleavage patterns in frogs, study of adaptive radiations in feet of birds and mouth parts of insects	<ul style="list-style-type: none"> <li>Able to understand and explain Mendel's Law of Inheritance</li> <li>Capable to analyze inheritance of gene by pedigree analysis.</li> <li>Able to know laboratory culture of Drosophila.</li> <li>Able to understand cytological, histological and osteological configuration for animal life.</li> <li>Capable to understand Human karyotype and Numerical alteration chromosomes</li> <li>Capable to explain Evolution and evidences</li> </ul>
67.	Applied Zoology	BZOOLDT-301A	Aquaculture, apiculture, methods of bee keeping, extraction of honey, silk and silk production, silkworm pest and parasites, dairy farming, poultry farming, poultry farm management and business plan	<ul style="list-style-type: none"> <li>Understand the culture techniques of fish &amp; Prawn.</li> <li>Understand silkworms rearing and their products.</li> <li>Understand the Bee keeping equipments and apiary management and concepts of lac cultivation.</li> <li>Understand dairy animals management, the breeds and diseases and learn the testing of egg and milk quality</li> <li>Apply knowledge at commercial levels.</li> </ul>
68.	Practical (Lab)	BZOOLDP-301	Morphological characterization of common fish species, life cycle of mulberry silkworm, external morphology, and nomenclature of dairy animals, test for good quality eggs	<ul style="list-style-type: none"> <li>Understand the culture techniques of prawn, pearl and fish.</li> <li>Understand beekeeping equipments and apiary management</li> <li>Understand dairy management, breeds of Cow &amp; diseases</li> <li>Testing of milk and egg</li> <li>Understand concepts of lac culture</li> </ul>
69.	Fundamentals of Genetics and Molecular Biology	BBTCT-301	Basic concepts of genetics, nucleic acid, replication, mutation, and repair, gene expression and regulation	<ul style="list-style-type: none"> <li>Understand the fundamentals of molecular biology and instrumentation</li> <li>Understand the concept of tools applied in the study of Biotechnology</li> <li>Understand the expression of gene</li> </ul>
70.	Fundamentals of Genetics and Molecular Biology Practical	BBTCP-301	Isolation of DNA from human blood, genomic DNA from bacteria, plant, separation of plasmid DNA	<ul style="list-style-type: none"> <li>Learn how to isolate DNA from different Sample</li> <li>Learn to isolate the plasmid DNA</li> <li>Learn the Basic of Agarose gel electrophoresis</li> </ul>
71.	Immunology and Medical Biotechnology	BBTDSE-301T	Components of innate and acquired immunity, immune response, antigen-antibody interactions, vaccinology and Hybridoma technology and gene therapy	<ul style="list-style-type: none"> <li>Learn the basics of immune system</li> <li>Learn the basics of immune response</li> <li>Learn the Concept of Vaccines</li> </ul>
72.	Immunology and Medical Biotechnology Practical	BBTDSE-301P	Determination of blood grouping and RH typing, detection of specific antigen by using ELISA Technique, characterization and separation of lymphocytes, study of antigen and antibody reactions	<ul style="list-style-type: none"> <li>Learn to Perform ELISA</li> <li>Learn to Perform Blood grouping</li> <li>Learn to Perform SDSPAGE</li> </ul>
73.	Biomolecules, Biochemistry	BMCT301	Concept of biomolecules, properties structure and significance of water, proteins, classification compounds, complex lipids, forms of DNA, types and structure of t RNA, m RNA, r RNA, metabolism of	<ul style="list-style-type: none"> <li>Understand the structure of Biomolecule</li> <li>Learn daily life application of Biomolecules</li> <li>Understand the biosynthetic pathway of Micro Organism and application of this knowledge</li> </ul>

			molecules	
74.	Biomolecules, Biochemistry Practical	BMCP301	Qualitative test for carbohydrates, analysis of protein, test for lipids, effect of environmental conditions, isolation of DNA from onion, separation of amino acids	<ul style="list-style-type: none"> <li>Understand the basics of laboratory rules and minimum requirements of laboratory equipment and their operations</li> <li>Understand Qualitative test of Carbohydrates</li> <li>Understand the Qualitative test lipids.</li> <li>Understand separation of various aminoacids.</li> </ul>
75.	Inheritance Biology	BMDSECT301	Medelian principles, characteristics of chromosomes, linkage and crossing over, recombination	<ul style="list-style-type: none"> <li>Understand the structure of Chromosome</li> <li>Understand the Mendelian Principles</li> <li>Understand the recombination properties of Chromosome</li> </ul>
76.	Inheritance Biology Practical	BMDSECP301	Medelian deviations in dihybrid crosses, karyotyping with the help of photographs, study of pedigree analysis and Chi- Square analysis	<ul style="list-style-type: none"> <li>Understand the Mendelian Deviation in Dihybrid crosses</li> <li>Understand the study of pedigree analysis.</li> <li>To know the karyotyping with help of photographs.</li> <li>Understand Polytene Chromosome using temporary mount of salivary glands Dorsophila Larvae.</li> </ul>
77.	Thermal Physics and Statistical Mechanics	PSCC-003T	Laws of thermo dynamics, kinetic theory of gases, theory of radiation and statistical mechanics	<ul style="list-style-type: none"> <li>Learn the basic concepts of thermodynamics.</li> <li>The first and the second law of thermodynamics, the concept of entropy and the associated theorems, the thermodynamic potentials and their physical interpretations.</li> <li>They are also expected to learn Maxwell's thermodynamic relations.</li> <li>Know the fundamentals of the kinetic theory of gases, Maxwell-Boltzmann distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion and Brownian motion</li> </ul>
78.	Electronics and Quantum Mechanics	PHYDSEC-001T	Semi-conductor devices, half wave and full wave rectification, quantum mechanics and expectation value of quantum variables	<ul style="list-style-type: none"> <li>After an exposition of the inadequacies of classical mechanics in explaining microscopic phenomena, quantum theory formulation is introduced through Schrodinger equation. Plea</li> <li>The interpretation of wave function of quantum particle and probabilistic nature of its location and subtler points of quantum phenomena are exposed to the student.</li> <li>This course provides the fundamental skills to understand the basic of semiconductor and components.</li> <li>To develop the understanding in Diode and Transistor</li> </ul>
79.	Differential equations	BMATHCT-301	First and second order differential equations, linear and ordinary simultaneous differential equations, first order partial differential equations and second order partial differential equations and applications	<ul style="list-style-type: none"> <li>Understand the genesis of ordinary as well as partial differential equations</li> <li>Learn various techniques of getting exact solutions of first order differential equations and linear differential equations of second order</li> <li>Learn about solution of first order linear partial differential equations using Lagrange's method</li> <li>Know how to solve second order linear partial differential equations with constant coefficient</li> </ul>
80.	Discrete Mathematics	BMATHDSE T-301	Sets and propositions, relations and functions, finite state machines, Boolean Algebra	<ul style="list-style-type: none"> <li>Learn about partially ordered sets, lattices and their types.</li> <li>Understand Boolean algebra and Boolean functions, logic gates, switching circuits and their applications.</li> <li>Solve real-life problems using finite-state and Turing machines.</li> <li>Assimilate various graph theoretic concepts and familiarize with their applications.</li> </ul>
81.	Computer Architecture	CSSCC-3T	Data representation, logic gates, Boolean algebra and switching functions, combinational and sequential circuits, basic computer organization and design	<ul style="list-style-type: none"> <li>Understand characteristics and basic structure computer system.</li> <li>Have basic knowledge of processor building design and components.</li> <li>Define different number systems, binary addition and subtraction, 2's complement representation and operations</li> <li>Understand the architecture and functionality of central processing unit.</li> <li>Exemplify in a better way the I/O and memory organization.</li> </ul>
82.	Computer architecture	CSCC-3P	Nomenclature of digital I/C's	<ul style="list-style-type: none"> <li>Learn to implement Fundamental gates using</li> </ul>

	laboratory course		specifications, AND, NOT, OR, NAND, NOR, XOR, Boolean function using logic gates, SOP: A.B+A.B, POS: (A+B) (B+C) (A+C)	<p>Simulators.</p> <ul style="list-style-type: none"> <li>Learn to implement Circuits using Simulators.</li> </ul>
83.	Internet technologies and Applications	CSCCEC – IT	Web basics, HTML and DHTML, introduction to CGI- PERL, anatomy of an XML Document	<ul style="list-style-type: none"> <li>Describe the concepts of WWW including browser and http protocol.</li> <li>List the various HTML tags and use them to develop the user friendly web pages.</li> <li>Define the CSS with its types and use them to provide the styles to the web pages at various levels.</li> <li>Develop the modern web pages using the html and CSS features with different layouts as per need of applications.</li> </ul>
84.	Internet Technologies and Applications Lab	CSCCEC – 1P	Write HTML program for the demonstration of list- unordered, ordered, definition, nested, HTML program for demonstrating Hyperlinks, timetable using tables, cascading style sheets, USER LOGIN page, XML Document for CUSTOMER, etc.	<ul style="list-style-type: none"> <li>Design and implement dynamic websites with good aesthetic sense of designing and latest technical know-how's</li> <li>Create web pages using HTML and Cascading Styles sheets Analyze a web page and identify its elements and attributes</li> <li>Create dynamic web pages using JavaScript</li> <li>Create XML documents and XML Schema</li> </ul>
85.	Biochemistry and microbiology	CN -3T	Enzymes, proteins, fats- structure classification, microbiology of different foods, spoilage, and contaminations, beneficial effects of microorganisms	<ul style="list-style-type: none"> <li>To understand Basic Knowledge Biochemistry.</li> <li>To understand Basic knowledge Microbiology.</li> <li>To understand Basic knowledge Nucleic acids and genetic material.</li> <li>To understand Basic knowledge Food Safety &amp; Standards.</li> <li>To understand Basic knowledge environmental Microbiology.</li> </ul>
86.	Normal and Therapeutic Nutrition	BSCCN – 3P	Estimation of glucose, protein, cholesterol, starch, ascorbic acid, estimation of strength of unknown glycine solution, ninhydrin test and Xantho protein test, lead acetate test for detection of protein	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Nutrients.</li> <li>To understand Basic Knowledge hospital basic diet. To understand Basic Knowledge of Normal Nutrition.</li> <li>To understand Basic Knowledge various recipies.</li> <li>To understand Basic Knowledge of analytics of nutrients.</li> </ul>
87.	Cardio Nutrition	DSE – BSCCN – 3T	Anatomical and histological structure of heart, function of heart, cardiac muscle, valves, effect of nutrients, carbos, lipids, vitamins, minerals, myocardial fibrillation, diseases of cardiac valve	<ul style="list-style-type: none"> <li>To understand Basic of Heart. To understand Basic knowledge of heart and role of nutrition in Heart health.</li> <li>To understand Basic knowledge of Enzymatic profile of cardiac diseases.</li> <li>To understand Basic knowledge of various disease of cardiac</li> <li>To understand Basic knowledge of therapeutic Diets in cardiac disease.</li> </ul>
88.	Cardio Nutrition- Practical	LAB 2- BSCCN- 3P	Observation of histological structure of heart, sonographic and various images, enzymatic profile changes during cardiac disease, analysis of serum for different parameters related to heart, planning of therapeutic diets, preparation of therapeutic diets and analysis of various lipid profile	<ul style="list-style-type: none"> <li>To understand Basic of Heart. To understand Basic knowledge of heart and role of nutrition in Heart health.</li> <li>To understand Basic knowledge of Enzymatic profile of cardiac diseases.</li> <li>To understand Basic knowledge of various disease of cardiac</li> <li>To understand Basic knowledge of therapeutic Diets in cardiac disease.</li> </ul>
89.	Preservation and Sensory Evaluation and Food Packaging	BSCFQ-3T	Food and its preservation, spoilage of food, palatability of food, and the measurement, factors influencing sensory measurement, importance of packaging	<ul style="list-style-type: none"> <li>Understand basic knowledge of foods and nutrition</li> <li>Understand basic knowledge of food microbiology and sanitation</li> <li>Basic knowledge of carbohydrate, protein, minerals and enzymes</li> <li>Understand basic knowledge of sensory evaluation and food packaging</li> </ul>
90.	Lab 3 : Preservation and Sensory Evaluation	BSCFQ – 3P	Preparation of Jam, Jellies and marmalades, pickles, chuttney, dehydration of vegetable and fruits, preparation of synthetic syrups and squashes, preparation of sauces	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Food Processing.</li> <li>To understand Basic Knowledge of Food preservation.</li> <li>To understand Basic Knowledge of market survey of food commodities.</li> <li>To understand Basic Knowledge of Sensory Evaluation.</li> </ul>

				<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Preservatives &amp; Additives</li> </ul>
91.	Chemistry	BCHEMC401T	Carbonyl Compounds, carboxylic acids, and their derivatives, nitrogen containing functional Groups, Phase equilibria, Noble gases, inorganic polymers.	<ul style="list-style-type: none"> <li>To know the basics of carbonyl compound.</li> <li>To understand the basics of carboxylic acids and their Derivatives</li> <li>To know the basics of nitrogen containing functional groups</li> <li>To know about phase equilibria.</li> <li>To learn about noble gases and inorganic polymers.</li> </ul>
92.	Chemistry	BCHEMC401P	Inorganic Chemistry, analytical Chemistry – determination of acetic acid in commercial vinegar using NaOH. Estimation of hardness of water	<ul style="list-style-type: none"> <li>To know about principles of thermochemistry</li> <li>To determine transition temperature</li> <li>To find out critical Temperature</li> <li>To perform qualitative organic analysis</li> </ul>
93.	Advanced Analytical Chemistry	BCHEMDSE401T	Statistical methods in chemical analysis, Fundamentals of Spectroscopy, Analysis of fuel, Chromatography	<ul style="list-style-type: none"> <li>To understand the Statistical analysis of data</li> <li>To understand Chromatographic Separation</li> <li>To know about Fuel Analysis</li> <li>To understand Coal Analysis</li> </ul>
94.	Advanced Analytical	BCHEMDSE401P	The effect of pH of addition of HCL/NaOH to solutions of acetic acid, sodium acetate and their mixtures, IR/DSC analysis of known polymer sample, determination of calorific value of given fuel sample/coal sample using bomb calorimeter.	<ul style="list-style-type: none"> <li>To understand the Statistical analysis of data</li> <li>To understand Chromatographic Separation</li> <li>To know about Fuel Analysis</li> <li>To understand Coal Analysis</li> </ul>
95.	Plant Morphology, Anatomy, and Embryology	BBOTDSC T-401	Angiosperm Morphology, meristems and related theories, plant anatomy and secondary growth, plant embryology	<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>
96.	Plant Morphology, anatomy, and Embryology	BBOTDSCP401	Morphological study of – Root, stem, and Leaf, Anatomy of – Dicot root, stem, and leaf, Monocot root, stem, and leaf, study of an angiospermic flower and its parts, Dissection of lady finger/ tridax/ citrus seeds for study of embryo	<ul style="list-style-type: none"> <li>To learn how plant specimens are collected, documented, and curated for a permanent record.</li> <li>To observe, record, and employ plant morphological variation and the accompanying descriptive terminology.</li> <li>To gain experience with the various tools and means available to identify plants.</li> <li>To develop observational skills and field experience.</li> <li>To identify a taxonomically diverse array of native plants.</li> <li>To recognize common and major plant families.</li> <li>Comprehend the concepts of plant taxonomy and classification of Angiosperms</li> </ul>
97.	Plant Breeding	BBOTDSEC T401	Plant breeding – Introduction and objectives, methods of crop improvement, genetic basis of plant breeding, plant breeding techniques	<ul style="list-style-type: none"> <li>Understand the meaning and importance of plant breeding.</li> <li>Learn the methods of crop improvement.</li> <li>Learn various methods of plant propagation.</li> <li>Apply their knowledge in the crop fields to improve crops.</li> </ul>
98.	Plant Breeding	BBOTDSEC P401	Selection of plants for breeding experiments, breeding in plants with unisexual flowers, breeding in plants with bisexual flowers, methods of vegetative propagation-cutting, layering, budding, grafting	<ul style="list-style-type: none"> <li>To observe, record, and employ plant morphological variation and the accompanying descriptive terminology.</li> <li>To learn how plant specimens are collected, documented, and curated for a permanent record.</li> <li>To observe, record, and employ plant morphological variation and the accompanying descriptive terminology.</li> <li>To gain experience with the various tools and means available to identify plants.</li> <li>To develop observational skills and field experience.</li> <li>To identify a taxonomically diverse array of native plants.</li> <li>To recognize common and major plant families.</li> </ul>
99.	Cell Biology and Histology	BZOOLECT – 401	Cell biology, cell theory, general structure of prokaryotes and eukaryotes, cytoskeleton, micro	<ul style="list-style-type: none"> <li>Understand the functioning of nucleus and extra nuclear organelles and understand the intricate cellular mechanisms involved.</li> </ul>

			tubules, and micro filaments, ultra structure of nuclear membrane and pore complex, cell membrane organization, fluid mosaic model, lipid composition, structure and functions of membrane proteins, epithelial tissue, basement membrane, cartilage and bone, bone marrow and muscular tissue	<ul style="list-style-type: none"> <li>• learn process of cell division</li> <li>• understand mechanism of cell junctions</li> <li>• Acquire the detailed knowledge of different pathways related to cell signaling and apoptosis thus enabling them to understand the anomalies in cancer.</li> <li>• Understand how tissues are produced from cells in a normal course</li> </ul>
100	PRACTICAL - LAB	BZOOLCP401	Study of prokaryotic and eukaryotic cell, separation and isolation of cells, isolation of mitochondria, chromosome segregation in mitosis and meiosis, isolation and estimation of DNA	<ul style="list-style-type: none"> <li>• Able to understand and explain Mendel's Law of Inheritance</li> <li>• Capable to analyze inheritance of gene by pedigree analysis.</li> <li>• Able to know laboratory culture of Drosophila. Able to understand cytological, histological and osteological configuration for animal life.</li> <li>• Capable to understand Human karyotype and Numerical alteration chromosomes</li> <li>• Capable to explain Evolution and evidences</li> </ul>
101	Immunology	BZOOLDT401	Historical perspective of immunology, Haematopoiesis, cells and organs of the immune system, innate and adaptive immunity, antigenicity and immunogenicity, immunoglobulins, major histocompatibility complex, hypersensitivity, vaccines- types of vaccines, recombinant vaccines and DNA vaccines	<ul style="list-style-type: none"> <li>• Identify the major cellular and tissue components which comprise the innate and adaptive immune system.</li> <li>• Understand how are immune responses by CD4 and CD8 T cells, and B cells, initiated and regulated.</li> <li>• Understand how the immune system distinguishes self from non-self. Gain experience at reading and evaluating the scientific literature in the area.</li> </ul>
102	PRACTICAL - LAB	BZOOLDP401	Determination of blood group and RH factor, agglutination reaction, precipitation reaction, complement fixation test, ELISA, study of organs in immune response, study of cells involved in immune response	<ul style="list-style-type: none"> <li>• Understand the basic components of the immune system</li> <li>• Grasp the fundamental principles of immune response</li> <li>• Learn practical skills in basic immunological techniques</li> <li>• Develop critical thinking and problem solving skills</li> </ul>
103	Recombinant DNA Technology	BBTCT – 401T	Basic concept of RDT, and restriction modification, types and characteristics of vector, PCR and associative techniques, basic concept of gene transfer methods	<ul style="list-style-type: none"> <li>• Understand the fundamentals of Genetic engineering and biological databases</li> <li>• learn the basic techniques of RDT</li> <li>• Understand the concept of genomics</li> </ul>
104	Recombinant DNA Technology	BBTCT – 401P	Isolation of plasmid by alkaline, preparation of bacterial competent cells, transformation and screening of bacteria, isolation of genomic DNA from onion, restriction digestion of isolated plasmid DNA, demonstration of PCR and DNA sequencing	<ul style="list-style-type: none"> <li>• Learn the basics of Gene Cloning</li> <li>• Learn to Prepare the Competent Cell</li> <li>• Learn the Basics of Primer Designing</li> <li>• Learn the Screening of transform cells</li> </ul>
105	Bio-analytical Tools	BBTDSE – 4T	Principles, types and application of centrifugation, chromatography, HPLC and electrophoresis, biophysical method, molecular analysis using UV/ visible, NMR and ESR spectroscopy, scanning and electron, phase contrast, blotting, ELISA, RIA, immune-precipitation and immunofluorescence microscopy, detection of molecules in living cells	<ul style="list-style-type: none"> <li>• Understand the principal of different instruments</li> <li>• Understand the application of different instruments</li> <li>• learn the usage of different instruments</li> <li>• Understand the concept of Bio analytics</li> </ul>
106	Bio-analytical Tools	BBTDSE – 4P	Demonstration of PCR and DNA sequencing, electrophoresis, thin layer and paper chromatography, calorimetric analysis of biomolecule	<ul style="list-style-type: none"> <li>• Learn the basics of Chromatography</li> <li>• Learn to Run the centrifuge</li> <li>• Learn the Basics of PCR</li> <li>• Learn the Basics of Electrophoresis</li> </ul>
107	Industrial, Environmental, Agriculture microbiology	BMCT401	Brief history and scope of microbes, fermentation- concept, types of aerobic and anaerobic, different types of fermentors, industrially important products- bread, cheese, vinegar, fermented dairy products and SCP, mushroom cultivation, concepts of environmental microbiology, role of microbes in	<ul style="list-style-type: none"> <li>• To Know the brief history of industrial Microbiology</li> <li>• To know about mushroom cultivation</li> <li>• To Know concept of environmental Microbiology.</li> <li>• Understand application of bio fertilizer &amp; bio composting.</li> </ul>

			eco system, agriculture microbiology- concepts of bio-fertilizer and bio-composting	
108	Industrial, environmental, agriculture microbiology	BMCP401	Isolation of bacteria and fungi from spoiled food, demonstration of production of ethanol by yeast, Water analysis by MPN technique, isolation of microorganisms from air, counting of faecal bacteria from water, isolation of phosphate, rhizobium, azotobacter from soil etc.	<ul style="list-style-type: none"> <li>Understand the basics of laboratory rules and minimum requirements of a laboratory equipment and their operations</li> <li>Understand Qualitative test of Carbohydrates</li> <li>Understand the Qualitative test lipids.</li> <li>Understand separation of various aminoacids.</li> </ul>
109	Instrumentation and Biotechniques	BMDSECT401	Chromatography, Electrophoresis, Spectrophotometry, centrifugation-principles, applications, and RCF and sedimentation coefficient, ultracentrifugation	<ul style="list-style-type: none"> <li>Understand the application of paper chromatography</li> <li>Understand the principle &amp; application of electrophoresis.</li> <li>Understand the colorimetry.</li> </ul>
110	Instrumentation and Biotechniques	BMDSECP401	Separation of mixtures by paper/thin layer chromatography, Separation of protein mixtures by polyacrylamide Gel Electrophoresis, separation of components of a given mixture using a laboratory scale centrifuge	<ul style="list-style-type: none"> <li>To know separation of mixture by chromatography.</li> <li>Understand density gradient centrifugation.</li> <li>To know column packing.</li> </ul>
111	Waves and Optics	PSCC- 004T	Waves in medium, Diffraction, Polarization, LASER, Ruby, He- Ne Laser, Application of Laser in communication and Holography	<ul style="list-style-type: none"> <li>Solve wave equation and understand the significance of transverse waves</li> <li>Acquire skills to identify and apply formulas of optics and wave physics</li> <li>Understand the properties of light like interference, diffraction and polarization</li> <li>Understand the applications of interference in the design and working of interferometers.</li> <li>Understand the resolving power of grating</li> <li>Get knowledge about laser and its application</li> </ul>
112	Thermal Physics and Statistical mechanics and Waves and Optics	PSCC – 003P & 004P	Thermal conductivity of a non-conducting material by Lee's disc method, the specific rotation of sugar solution with the help of a polarimeter, verify Newton's law of cooling, heat efficiency of an electric kettle with varying voltage, determine the frequency of AC, the ratio of specific heat at constant pressure, the refractive index, the radius of curvature of a plano-convex, wavelength of laser light by diffraction grating	<ul style="list-style-type: none"> <li>Students able to get working knowledge of laws and methods of thermodynamics and elementary statistical mechanics and to use this knowledge students can explore various application related to physics of condensed matter.</li> <li>Students experience experimental evidence of laws of wave optics and how light has wave nature is confirmed through experiment.</li> </ul>
113	Atomic Molecular and Nuclear Physics	PHYDSEC – 002T	Hydrogen atom, Molecular spectra, discrete set of electronic energies of molecules, pure vibrational spectra, Nucleus, Proton-electron theory, angular momentum of nucleus, Particle accelerator, cyclotron, frequency modulated, detection of charged particles, Wilson cloud chamber, Geiger Muller counter	<ul style="list-style-type: none"> <li>Learn the ground state properties of a nucleus - the constituents and their properties.</li> <li>Learn the concepts of packing fraction and binding energy, binding energy, and binding energy graph.</li> <li>To develop an understanding of the atomic and molecular structure.</li> <li>To develop an understanding of the interaction of atomic and molecular systems with external homogeneous static electric and magnetic fields</li> </ul>
114	Electronics, quantum mechanics, atomic, molecular, and Nuclear Physics	PHYDSEC - 01P & 02P	Specific resistance and energy gap of a semiconductor, half wave and full wave rectification, characteristics of Zener diode, tunnel diode, transistors, RC coupled amplifier, digital electronics, Half and full adder circuits	<ul style="list-style-type: none"> <li>Students able to get Learn basic concepts of semiconductor diodes, junction transistors and their applications to rectifier through experiment.</li> <li>Learn basic concepts of Digital circuits viz: logic gates and its various combinations through experiments.</li> </ul>
115	Real analysis	BMATHCT - 401	Real number system such as least upper bound property and Order property. Convergent, Cauchy and monotonic sequences of real numbers, algebra of R- integrable functions. various applications of fundamental theorem of integral calculus.	<ul style="list-style-type: none"> <li>Understand basic properties of the real number system such as least upper bound property and Order property.</li> <li>Realize importance of bounded, Convergent, Cauchy and monotonic sequences of real numbers, find their limit superior and limit inferior.ozo</li> <li>Learn about Riemann integrability of bounded</li> </ul>

			concept of uniform continuity, differentiation, integration and uniform convergence.	<p>function and algebra of R- integrable functions.</p> <ul style="list-style-type: none"> <li>Determine various applications of fundamental theorem of integral calculus.</li> <li>Relate concept of uniform continuity, differentiation, integration and uniform convergence.</li> <li>Learn about metric space, compact and connected space.</li> </ul>
116	Mechanics	BMATHDSE T - 401	<p>principle of virtual work for a system of coplanar forces acting on a particle.</p> <p>equilibrium of a uniform cable hanging freely under its own weight.</p> <p>kinematics and kinetics of the rectilinear and planar motions of a particle including the constrained oscillatory motions of particle.</p> <p>Kepler's laws of the planetary motions,</p>	<ul style="list-style-type: none"> <li>Familiarize with subject matter, which has been the single centre, to which were drawn mathematicians, physicists, astronomers and engineers together.</li> <li>Understand necessary conditions for the equilibrium of particles acted upon by various forces and learn the principle of virtual work for a system of coplanar forces acting on a particle.</li> <li>Determine the centre of gravity of materialistic systems and discuss the equilibrium of a uniform cable hanging freely under its own weight.</li> <li>Deal with the kinematics and kinetics of the rectilinear and planar motions of a particle including the constrained oscillatory motions of particle.</li> <li>Learn that a particle moving under a central force describes a plane curve and know the Kepler's laws of the planetary motions, which were deduced by him long before the mathematical theory given by Newton</li> </ul>
117	Object oriented programming with C++	CSSCC – 4T	<p>fundamental programming concepts and methodologies, programming methodologies in the C++ programming language via laboratory experiences.</p> <p>Code, test, and implement a well-structured, robust computer program using the C++ programming language.</p>	<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>
118	LAB COURSE ( Object Oriented Programming with C ++)	CSSCC – 4P	<p>fundamental programming methodologies in theC++ programming language via laboratory experiences.</p> <p>Code, test, and implement a well-structured, robust computer program using the C++ programming language.</p>	<ul style="list-style-type: none"> <li>Learn the fundamental programming concepts and methodologies which are essential to create goodC++ programs.</li> <li>Practice the fundamental programming methodologies in theC++ 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>
119	Computer Networks	CSDSE – 2T	<p>computer network technology, Data Communications System and its components, network topologies and protocols, OSI model and TCP/IP</p>	<ul style="list-style-type: none"> <li>Understand the basic computer network technology.</li> <li>Understand and explain Data Communications System and its components.</li> <li>Identify the different types of network topologies and protocols.</li> <li>Understand the layers of the OSI model and TCP/IP.</li> </ul>
120	Basic Dietetics & Community Nutrition	BSCCN – 4T	<p>Food guide and food standard, Early and late childhood, Nutrition and health in national development, nutrition intervention schemes</p>	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Nutrients.</li> <li>To understand Basic Knowledge of food groups.</li> <li>To understand Basic Knowledge of Nutritional Deficiency Disease.</li> <li>To understand Basic Knowledge of Food supplements &amp; Enrichment.</li> <li>To understand Basic Knowledge of Food adulteration.</li> </ul>
121	LAB2: Normal & Therapeutic Nutrition	BSCCN – 4P	<p>Menu planning, planning and preparation of low and high colorie diet, pulses, beverages, plain and stuffed vegetables, salad and sauces, bakery items etc.</p>	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Nutrients.</li> <li>To understand Basic Knowledge hospital basic diet.</li> <li>To understand Basic Knowledge of Normal Nutrition.</li> </ul>

				<ul style="list-style-type: none"> <li>To understand Basic Knowledge various recipes.</li> <li>To understand Basic Knowledge of analytics of nutrients.</li> </ul>
122	Post Harvest Technology & Analytical Instrumentation	FQ – 4T	Principles of Food Processing, Enrichment and fortification of food, basics of instrumentation, Proteins, Minerals	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Food Processing.</li> <li>To understand Basic Knowledge of Food analytics.</li> <li>To understand Basic Knowledge of Investigation techniques.</li> <li>To understand Basic Knowledge of Enrichment &amp; Fortification.</li> <li>To understand Basic Knowledge of Preservatives &amp; Additives.</li> </ul>
123	LAB4: Food Processing Technology	BSCFQ – 4P	Paper Chromatography – separation of Amino acids, Spectrophotometer based analysis of nutrients, identification of protein test, estimation of Cholesterol, ascending descending and circular chromatography	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Food Processing.</li> <li>To understand Basic Knowledge of Food preservation.</li> <li>To understand Basic Knowledge of market survey of food commodities.</li> <li>To understand Basic Knowledge of Investigation techniques.</li> <li>To understand Basic Knowledge of Preservatives &amp; Additives.</li> </ul>
124	Relational database Management system	BCASCC-7T	Introduction to DBMS, RDBMS and design concepts, Transaction processing, Introduction to current trends	<ul style="list-style-type: none"> <li>Understand data, database system and its architecture.</li> <li>Apply ER modeling and Relational Database design using Normalisation</li> <li>Apply concepts of database storage and querying</li> <li>Understand Concurrency, Recovery and Security mechanism in DBMS</li> <li>Understand Current advances in DBMS</li> </ul>
125	Web Technology	BCASCC – 8T	Web basics, HTML and DHTML, Introduction to CGI – PERL, XML – Developing advanced DTD vs XML objects, viewing XML in browsers, processing, event- driven programming, and programming with. DOM, Metadata, styling XML with CSS	<ul style="list-style-type: none"> <li>Describe the concepts of WWW including browser and http protocol</li> <li>List the various HTML tags and use them to develop the user-friendly web pages</li> <li>Define the CSS with its types and use them to provide the styles to the web pages at various levels</li> <li>Develop the modern web pages using the html and CSS features with different layouts as per need of applications</li> </ul>
126	Computer Architecture	BCASSCC - 9	Data representation, logic gates, Boolean algebra, combinational and sequential circuits, Basic computer organisation and design	<ul style="list-style-type: none"> <li>Understand characteristics and basic structure computer system.</li> <li>Have basic knowledge of processor building design and components.</li> <li>Define different number systems, binary addition and subtraction, 2's complement representation and operations</li> <li>Understand the architecture and functionality of central processing unit.</li> <li>Exemplify in a better way the I/O and memory organization.</li> </ul>
127	Numerical analysis	BCADSEC -1	Solution of Polynomial and transcendental algebraic equations, Simultaneous equations and matrix, Interpolation, - Single variable Functions, Numerical differentiation and Integration	<ul style="list-style-type: none"> <li>Know and understand Numerical Methods.</li> <li>Distinguish between Numerical differences, integration and classical difference &amp; Integration.</li> <li>Apply the knowledge Extensively in Engineering and Statistics.</li> </ul>
128	E-Commerce	BCADSEC -2	Introduction to E-Commerce, Building an E- Commerce Website, Mobile Site and Apps, E-Commerce Security and payment systems, Business Concepts I E-Commerce	<ul style="list-style-type: none"> <li>Compare how internet and other information technologies support business processes.</li> <li>Demonstrate an overall perspective of the importance of application of internet technologies in business administration</li> <li>Explain the basic business management concepts.</li> <li>Demonstrate the basic technical concepts relating to E- Commerce.</li> <li>Identify the security issues, threats and challenges of E- Commerce.</li> </ul>
129	Lab based on SQL	BCASCC – 7P	E- R diagram and convert entities, relational algebra queries, altering a table dropping/ truncating/renaming tables, backing up / deleting/ restoring a database, PL/SQL program using FOR loop to insert	<ul style="list-style-type: none"> <li>Understand Data, Database system and its architecture.</li> <li>Apply ER modeling and Relational Database design using Normalization.</li> <li>Apply concepts of database storage and querying. Understand Concurrency, Recovery</li> </ul>

			ten rows into a database table	<ul style="list-style-type: none"> <li>and Security mechanism in DBMS.</li> <li>• Understand Current advances in DBMS.</li> </ul>
130	Lab – Web Technology	BCASCC – 8P	CSS with its types and use them to provide the styles to the web pages at various levels. Develop the modern web pages using the html and CSS features with different layouts as per need of applications.	<ul style="list-style-type: none"> <li>• Describe the concepts of WWW including browser and http protocol.</li> <li>• List the various HTML tags and use them to develop the user- friendly web pages.</li> <li>• Define the CSS with its types and use them to provide the styles to the web pages at various levels.</li> <li>• Develop the modern web pages using the html and CSS features with different layouts as per need of applications.</li> </ul>
131	Business mathematics	BBCCC-301	Simultaneous equations, Logarithms and Antilogarithms, Matrices, determinants, Ration and proportions, Commercial mathematics, Commission and brokerage, discount, profit and loss, Mathematics of finance	<ul style="list-style-type: none"> <li>• Understand the students to have such 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>
132	Principles of management	BBCCC - 302	Principles and functions of management, planning and decision making, organisation, 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 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> <li>• analysis isolate issues and formulate best control method</li> </ul>
133	Business economics	BBCCC - 303	Micro and macro economics, business economics, Price mechanism, Consumer behaviour, Elasticity of demand, Production of function, isoquant curves, cost of production, pricing and market	<ul style="list-style-type: none"> <li>• Examine how different economic systems function and evaluate implications of various economic decisions;</li> <li>• Examine how consumers try to maximize their satisfaction by spending on different goods;</li> <li>• Analyze the relationship between inputs used in production and the resulting outputs and costs;</li> <li>• Analyze and interpret market mechanism and behavior of firms and response of firms to different market situations;</li> <li>• Examine various facets of pricing under different market situations</li> </ul>
134	Internet application and e - Commerce	BBCCC – 301	Internet, internet services, E-mail, internet security management concepts, web browsers, introduction to html, e- commerce, models, e- marketing, versus traditional marketing, e- payment systems	<ul style="list-style-type: none"> <li>• Understand the components and roles of the Electronic Commerce environment</li> <li>• Understand Web marketing and E-Commerce payment systems.</li> <li>• Understand the various business models, payment schemes, online advertisements, marketing strategies.</li> <li>• Explain the client/server infrastructure that supports electronic commerce.</li> <li>• Understand legal and ethical issues related to E-Commerce line business related transactions.</li> </ul>
135	Financial markets and institutions	BBCDE – 301(A)	Money market, capital market, Banking institutions, other financial institutions	<ul style="list-style-type: none"> <li>• Describe the meaning and scope of financial markets as well as institutions in India.</li> <li>• Evaluate the functioning of Money Market and Capital Market.</li> <li>• Assess the impact of recent initiatives like MUDRA scheme on financial inclusion.</li> <li>• Explain concept of Non-Banking Financial Companies (NBFCs).</li> </ul>
136	Indian economy	BBCDE – 301 (b)	Indian economy, demography and indian economy, Indian agriculture – trends and problems, Industrial economy and service sector of India	<ul style="list-style-type: none"> <li>• Evaluate the magnitude, size, and dimensions of Indian economy and to study effect of privatization and liberalization on Indian economy.</li> <li>• Evaluate the role of population as an economic</li> </ul>

				<ul style="list-style-type: none"> <li>resource.</li> <li>Explain the role and contribution of agriculture in economic development of India.</li> <li>Analyze contribution of industrial and service sector in Indian economy.</li> <li>Evaluate the recent trends in economic planning of India as well as role and functions of central bank and commercial banks.</li> </ul>
137	Banking and Insurance	BBCDE – 301 (C)	Banking business Banking operations, Insurance business, Life and nonlife insurance	<ul style="list-style-type: none"> <li>Explain the meaning, scope and functions of Banking along with legal framework.</li> <li>Assess the operations of banking and its services.</li> <li>Evaluate the lending operations of banks and identify causes of NPA in banks.</li> <li>Explain the concept of insurance and its principles.</li> <li>Explain types of insurance and regulatory framework of insurance</li> </ul>
138	Business statistics	BBCCC - 401	Statistics, Univariate, analysis, measures of dispersion, Skewness and its coefficient, Bi-variate analysis, index numbers	<ul style="list-style-type: none"> <li>Acquire proficiency in using different mathematical tools (matrices, Calculus and mathematics of finance) in solving real life business and economic problems.</li> <li>Develop an understanding of the various averages and measures of dispersion to describe statistical data.</li> <li>Explain the relationship between two variables through correlation and regression.</li> <li>Explain the construction and application of index numbers to real life situations.</li> <li>Analyze the trends and tendencies over a period through time</li> </ul>
139	Cost Accounting	BBCCC 402	Concept and nature of cost accounting, material and labour cost, elements of cost, methods of costing, process and service costing	<ul style="list-style-type: none"> <li>Have knowledge to understand the concept of cost accounting.</li> <li>Understand various cost elements and its accounting</li> <li>Compute employee cost, employee productivity and employee turnover</li> <li>Determine cost under, process costing, contract costing</li> <li>Compute unit cost and total cost of production and prepare cost statement</li> <li>Determine cost under service costing.</li> </ul>
140	Principles of marketing	BBCCC - 403	Marketing, understanding consumer behaviour, and market selection, marketing mix decision product, marketing mix decisions – pricing and distribution	<ul style="list-style-type: none"> <li>Develop understanding of basic concepts of marketing, marketing philosophies and environmental conditions effecting marketing decisions of a firm</li> <li>Analyse the process of marketing decisions involving product development and its role in value creation.</li> <li>Analyse the process of marketing decisions involving product pricing and its distribution, and assess the impact on value creation.</li> <li>Analyse the process of marketing decisions involving product promotion and its role in creating communication value for customers.</li> <li>Learn various developments in marketing area that may govern marketing decisions of a firm and also various ethical and legal issues.</li> </ul>
141	Relational database management system	BBCCC – 401 (CA)	Database system concept, relational database management system, relational database design, introduction to RDBMS software - oracle	<ul style="list-style-type: none"> <li>To understand the features of database management systems and Relational database</li> <li>To use SQL- the standard language of relational databases</li> <li>To understand the functional dependencies and design of the database</li> <li>To understand the concept of Transaction and Query processing</li> </ul>
142	Financial services	BBCDE -401 (a)	Merchant banking, Credit rating, Hire- purchase and leasing, mutual fund and venture capital fund, factoring and forfeiting	<ul style="list-style-type: none"> <li>Explain the functions of merchant banking;</li> <li>Assess the credit rating process and methodology;</li> <li>Explain the use of hire purchase and leasing business;</li> <li>Describe the functioning of mutual funds and venture capital industries;</li> <li>Explain factoring and forfeiting services.</li> </ul>
143	Macro Economics	BBCDE –	Nature and scope of macro	<ul style="list-style-type: none"> <li>Explain the basic concepts related to national</li> </ul>

		401 (b)	economics, national income, macro economic theory, savings and investment, business cycle and value of money	<p>income, employment, savings, investments monetary theory, savings, and investment function.</p> <ul style="list-style-type: none"> <li>• Measure National Income and examine the problems related to measurement of national income in context to India.</li> <li>• Evaluate the role of consumption, saving and investment in an economy.</li> <li>• Evaluate the impact of various economic phenomena like inflation and deflation.</li> <li>• Explain concepts like business cycle, multiplier, accelerator and demonetization</li> </ul>
144	Industrial relations and labour laws	BBCDE – 401 (c)	Industrial relations, Trade Unions Act 1926, Workers’ participation in management, discipline and grievance redressal, other labour enactments- the factories act 1948, code on wages 2019 etc.	<ul style="list-style-type: none"> <li>• Explain the evolution and factors influencing industrial relations in changing environment;</li> <li>• Evaluate the effectiveness of trade unions and factors influencing their growth;</li> <li>• Examine the effectiveness of workers' participation in management;</li> <li>• Evaluate the effectiveness of grievance redressal mechanism;</li> <li>• Analyze industrial disputes and implementation of its legal provisions;</li> <li>• Discuss the concept of bonus and wages payments for all the workers under Code on Wages, 2019</li> </ul>
145	Management information System	BBCDE – 401 (d)	Information systems, using information systems to achieve competitive advantage, characteristics and structure of management information systems, functional information systems, implementing information systems as planned organizational change	<ul style="list-style-type: none"> <li>• To facilitates the decisions-making process by furnishing information in the proper time frame.</li> <li>• Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.</li> <li>• Compare the processes of developing and Implementing Management Information Systems.</li> <li>• Apply the understanding of how various Information Systems work together to accomplish the information objectives of an organization.</li> </ul>
146	Business Statistics	BBBAC - 301	Statistics, Univariate analysis, Measures of dispersion, Bi-variate analysis, Index number	<ul style="list-style-type: none"> <li>• Acquire proficiency in using different mathematical tools (matrices, calculus and mathematics of finance) in solving real life business and economic problems;</li> <li>• Develop an understanding of the various averages and measures of dispersion to describe statistical data;</li> <li>• Explain the relationship between two variables through correlation and regression;</li> <li>• Explain the construction and application of index numbers to real life situations;</li> <li>• Analyze the trends and tendencies over a period of time through time series analysis.</li> </ul>
147	Business law	BBBAC - 302	Law of contract 1872, special contract, sale of goods act 1930, Limited liability partnership act 2008, negotiable instrument act 1881, competition 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>• Be 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>• Describe the significant provisions of the Competition Act to prevent practices having adverse effect on competition and provisions of the Consumer Protection Act to protect the interest of the consumers.</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>
148	Business communication	BBBAC - 303	Communication, non – verbal aspects of communicating, business letter writing, business correspondence, report writing, presentation skills, psychometric	<ul style="list-style-type: none"> <li>• Develop communication skills and use of electronic media in business communication</li> <li>• Learn the way to overcome communication barriers</li> <li>• Practice modern forms of communication</li> </ul>

			analysis	<ul style="list-style-type: none"> <li>Formulate job related communication and resume preparation</li> <li>Attend interview and participate in Group discussion with confidence</li> </ul>
149	Human resource management	BBBDE – 301(a)	Introduction to human resource management, acquisition of human resource, training and development, performance appraisal and compensation management, maintenance of employees and emerging horizons of HRM	<ul style="list-style-type: none"> <li>Develop necessary skills to prepare an HR policy to enable the employees attain work life balance;</li> <li>Prepare a Human Resource Plan in an organisation;</li> <li>Prepare a report on job analysis;</li> <li>Organize an induction programme in an organisation;</li> <li>Analyse the applicability and use of different kinds of training and development strategies in real life scenarios;</li> <li>Organize counselling sessions for employees in an organisation;</li> <li>Design incentive schemes for different job roles in an organisation;</li> <li>Create HR policies related to grievance redressal, employee health, safety, welfare, and their social security in an organisation</li> </ul>
150	Corporate law	BBBDE – 301 (b)	Preliminary to companies act 2013, management and administration board meetings, directors and their powers board of directors, appointment and qualifications of directors, oppression management	<ul style="list-style-type: none"> <li>Explain relevant definitions and provisions relating to issue of prospectus and allotment of shares;</li> <li>Synthesize company processes, meetings, and decisions;</li> <li>Determine the role of Board of directors and their legal position;</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>
151	Macro Economics	BBBDE – 301 (c)	Nature and scope of macro economics, macro-economic theory, savings and investment, business cycle and value of money	<ul style="list-style-type: none"> <li>Explain the basic concepts related to national income, employment, savings, investments monetary theory, savings, and investment function.</li> <li>Measure National Income and examine the problems related to measurement of national income in context to India.</li> <li>Evaluate the role of consumption, saving and investment in an economy.</li> <li>Evaluate the impact of various economic phenomena like inflation and deflation.</li> <li>Explain concepts like business cycle, multiplier, accelerator and demonetization.</li> </ul>
152	Cost Accounting	BBBAC - 401	Nature and scope of cost accounting, accounting for material, accounting for labour, accounting of overheads, cost ascertainment, process costing, operating costing	<ul style="list-style-type: none"> <li>Have knowledge to understand the concept of cost accounting.</li> <li>Understand various cost elements and its accounting</li> <li>Compute employee cost, employee productivity and employee turnover</li> <li>Compute unit cost and total cost of production and prepare cost statement.</li> <li>Determine cost under, process costing, contract costing</li> <li>Compute cost under and operating costing.</li> </ul>
153	Organisational Behaviour	BBBAC - 402	Individual and organizational behaviour- concepts, determinants, challenges and opportunities, decision making and communication, motivation-meaning and importance, dynamics of organizational behaviour	<ul style="list-style-type: none"> <li>Differentiate between various types of personality using standard tools.</li> <li>Appreciate the applicability of decision-making process in real life situations and use TA and Johari Window.</li> <li>Have knowledge to understand the level of motivation in employees.</li> <li>Describe characteristics of a leader.</li> <li>Learn how to build a supportive organizational culture.</li> </ul>
154	Management information System	BBBAC - 403	Information systems, using information systems to achieve competitive advantage, characteristics and structure of management information systems, functional information systems, implementing information systems	<ul style="list-style-type: none"> <li>To facilitates the decisions-making process by furnishing information in the proper time frame.</li> <li>Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.</li> </ul>

			as planned organizational change	<ul style="list-style-type: none"> <li>• Compare the processes of developing and Implementing Management Information Systems.</li> <li>• Apply the understanding of how various Information Systems work together to accomplish the information objectives of an organization.</li> </ul>
155	Marketing management	BBADE – 401 (a)	Marketing, marketing philosophies and environmental conditions affecting marketing decisions of a firm, dynamics of consumer behavior and process of market selection through STP stages, marketing decisions involving product development. marketing decisions involving product pricing and its distribution. marketing decisions involving product promotion	<ul style="list-style-type: none"> <li>• Develop an understanding of basic concepts of marketing, marketing philosophies and environmental conditions affecting marketing decisions of a firm.</li> <li>• Explain the dynamics of consumer behavior and process of market selection through STP stages.</li> <li>• Analyze the process of value creation through marketing decisions involving product development.</li> <li>• Analyze the process of value creation through marketing decisions involving product pricing and its distribution.</li> <li>• Analyze the process of value creation through marketing decisions involving product promotion and also to equip them with the knowledge of various developments in marketing area that may govern marketing decisions of a firm.</li> </ul>
156	Business Ethics and Corporate Social Responsibility	BBBDE – 401 (b)	Business ethics management, moral issues in business, corporate social responsibility	<ul style="list-style-type: none"> <li>• Design Code of Ethics for an organisation;</li> <li>• Discuss Ethical Performance of an organisation;</li> <li>• Describe and distinguish between various types of values.</li> <li>• Discuss issues related to whistle blowing and other moral issues.</li> <li>• Measure the level of participation of select companies/organisations related to Social Responsibility.</li> </ul>
157	Indian economy	BBBDE – 401 (c)	Indian economy, demography and indian economy, Indian agriculture – trends and problems, Industrial economy and service sector of India, government policy and initiatives	<ul style="list-style-type: none"> <li>• Evaluate the magnitude, size, and dimensions of Indian economy and to study effect of privatization and liberalization on Indian economy.</li> <li>• Evaluate the role of population as an economic resource.</li> <li>• Explain the role and contribution of agriculture in economic development of India.</li> <li>• Analyze contribution of industrial and service sector in Indian economy.</li> <li>• Evaluate the recent trends in economic planning of India as well as role and functions of central bank and commercial banks.</li> </ul>
158	Food Preservation	HSC – 7T	Food preservation, food storage, pasteurization, uses of low temperature, chemical preservatives	<ul style="list-style-type: none"> <li>• To understand Basic Knowledge of Principles of Preservation.</li> <li>• To understand Basic Knowledge of Asepsis, Temperature.</li> <li>• To understand Basic Knowledge of Food Processing.</li> <li>• To understand Basic Knowledge of Traditional Foods preservation.</li> <li>• To understand Basic Knowledge of Effects of Food Storage.</li> <li>• To understand Basic Knowledge of Dehydration and Pasteurization</li> </ul>
159	LAB7: Food Preservation	HSC – 7P	Preparation of Jam, jellies marmalades, pickles, and chutneys, dehydration of vegetables and fruits, preparation of synthetic syrups and squashes, sauces, survey market products, packaging techniques	<ul style="list-style-type: none"> <li>• To understand Basic Knowledge of Principles of Preservation.</li> <li>• To understand Basic Knowledge use of temperature for preservation.</li> <li>• To understand use of chemical preservatives.</li> <li>• To understand Basic Knowledge of Asepsis.</li> <li>• To understand technology of dehydration up to optimal level.</li> <li>• To understand packing techniques.</li> </ul>
160	Introduction to Resource management	HSC – 8T	Introduction to resource management, factors motivating management, resources, management process, management of resources, process of energy	<ul style="list-style-type: none"> <li>• To understand Importance of proper Management.</li> <li>• To understand Factors Important for management.</li> <li>• To understand Decision Making Process.</li> </ul>

			management, time management	<ul style="list-style-type: none"> <li>To understand Management of time, energy and finance.</li> <li>To understand Work simplification.</li> <li>To understand Management of available resources.</li> </ul>
161	LAB2: Introduction to resource Management	HSC- 8P	Identify and formulate various types of decision, write process of decision making, to develop simplify methods for any work	<ul style="list-style-type: none"> <li>To understand Importance of Precise Management.</li> <li>To understand Goal setting in life.</li> <li>To understand Decision Making Process,</li> <li>To understand Management of time, energy and finance.</li> <li>To understand Work simplification technique.</li> </ul>
162	Community Development	HSC-9T	Evolution of community development programs, support structures and their functions, analysis of social relations of groups social stratification, poverty analysis	<ul style="list-style-type: none"> <li>To understand developmental approaches.</li> <li>To understand community development in India.</li> <li>To understand support structure and their functions.</li> <li>To understand developmental programs at various stages.</li> <li>To understand analysis of social satisfaction.</li> </ul>
163	LAB 9: Community development	HSC – 9P	Practical use of RRA/ PRA Methods, reporting on socio-economic analysis of the rural/ urban community, to select, plan, preparation and use of different-audio visual aids, project/ field work	<ul style="list-style-type: none"> <li>To understand developmental approaches for Indian community.</li> <li>To develop skill regarding community survey and analysis.</li> <li>To develop skill regarding impactful community dialogs.</li> <li>To understand demonstration technique for community.</li> <li>To organize group activities for community.</li> </ul>
164	Pattern making	BSCFD – 3T	Principle of body measurement, study of human figure and figure problems, drafting- introduction, advantages and disadvantages, drafting of basic bodice block for children, collars, frock, skirts, drafting and pattern making	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of Body measurement.</li> <li>To understand Basic knowledge of drafting.</li> <li>To understand Basic knowledge of collars.</li> </ul>
165	LAB3: Pattern Making	BHSCFD – 3T	Pattern making of puff sleeves, puff at top and bottom, kimono sleeve, low waist frock, high waist frock, types of collar	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of Body measurement</li> <li>To understand Basic knowledge of drafting.</li> <li>To understand Basic knowledge of collars.</li> </ul>
166	Hepato Nutrition	BHSCDSE	Anatomical & Histological structure of liver, blood circulation in liver, detoxification- importance of the process and some examples, digestion related- digestion of portion, fat and caboose, nutritional requirements of liver, effect of deficiencies on liver, cirrhosis, hepatic come, fatty liver, alcohol damage of liver	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of Liver.</li> <li>To understand Basics Knowledge of Liver disease.</li> <li>To understand Basic knowledge of Metabolic cycle of Liver.</li> <li>To understand Basic knowledge of various liver disease</li> </ul>
167	LAB1: Hepato Nutrition	BSCCN – 3P	Observation of histological structure of liver, various images of healthy liver sonographic and image available in internet, enzymatic profile changes during various disease, planning and preparation of therapeutic diets for various diseases of liver	<ul style="list-style-type: none"> <li>To understand Basic Knowledge of Liver.</li> <li>To understand Basic knowledge of liver and role of nutrition in liver health.</li> <li>To understand Basic knowledge of Enzymatic profile of hepatic diseases</li> <li>To understand Basic knowledge of various disease of liver.</li> <li>To understand Basic knowledge of therapeutic Diets in liver disease</li> </ul>
168	Extension Education	HSC – 10T	Concept of education, concept of adult / non formal education, Programs to enhance food production, programs for women and children, Advertising media	<ul style="list-style-type: none"> <li>To understand basic concept of Extension.</li> <li>To understand basic Knowledge of Role of NGOs for the community.</li> <li>To understand basic concept of Principle and Methods of extension.</li> <li>To understand basic Knowledge of Enhancement of food production.</li> <li>To understand basic concept of Family welfare programs.</li> </ul>
169	Extension Education	HSC – 10P	Visits to Radio / TV stations, script writing for radio, visit to extension education unit, write slogan about Adult – Education, designing an advertisement for any product with relevant slogan	<ul style="list-style-type: none"> <li>To understand importance of Extension techniques.</li> <li>To understand importance of role of NGOs for the community.</li> <li>To understand techniques for mass communication.</li> </ul>


				<ul style="list-style-type: none"> <li>To understand script writing related with community problems.</li> <li>To understand implication of extension activities for the subject</li> </ul>
170	Foundation of art and design	HSC – 11T	Introduction to foundation of art, Indian, regional, traditional, and contemporary arts, family's housing needs, financial considerations, disability of owning and renting,	<ul style="list-style-type: none"> <li>To understand basic Knowledge of various designs.</li> <li>To understand basic Knowledge of role of accessories in any house.</li> <li>To understand basic concept of family housing needs.</li> <li>To understand basic Knowledge of financial management in home.</li> <li>To understand basic concept of Landscape planning.</li> </ul>
171	LAB11; Foundation of art and Design	HSC – 11P	Memory drawing and sketching, scale drawing, solid geometry, orthographic, preparation of colour wheel and colour schemes, Elements of design laws of field size, types of shadows, use of colour for wall / floor decoration and making accessories, drawing house plans with standard specifications	<ul style="list-style-type: none"> <li>To understand concept of Indian Art.</li> <li>To understand basic Knowledge Family housing needs of Indian Families.</li> <li>To understand techniques for the financial management for families.</li> <li>To understand basic concept of colour schemes and their impact.</li> <li>To understand basic concept of Landscape planning.</li> </ul>
172	Personal Empowerment and Computer basics	HSC – 12T	Personal growth and personality development, empowerment of women, home science education as empowerment, some contemporary issues of concern, computer fundamentals	<ul style="list-style-type: none"> <li>To understand personal growth and development.</li> <li>To understand Women empowerment.</li> <li>To understand home science as empowerment tool.</li> <li>To understand Computer fundamentals.</li> <li>To Understand Various Operating Systems</li> </ul>
173	LAB12; Personal Empowerment and Computer basic	HSC – 12P	Exploring the desktop, running multiple programs, control panel, MS: WORD, creating and formatting a document, MS: EXCEL, Internet	<ul style="list-style-type: none"> <li>To acquaints with Knowledge of structure of computer.</li> <li>To understand functioning of computer with different operating systems.</li> <li>To understand internet and its uses.</li> <li>To explore MS Excel for calculations and graphical presentation.</li> <li>To Understand Various Operating Systems with latest configuration.</li> </ul>
174	Garment Construction	BSCFD – 4T	Understanding the use of selection of tools and equipments for apparel construction, measuring tools for accurate body measurements and pattern drafting, Elements of garment construction, grain lines, finishes, arranging fabric, drafting, basic sleeve block, A line Kurta, salwar etc	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of garment Construction.</li> <li>To understand Basic knowledge of Fabric preparation.</li> <li>To understand Basic knowledge of calculation of fabric</li> <li>To understand Basic knowledge of Fabric layout.</li> </ul>
175	LAB1: Fashion Designing	BSCFD – 4P	Pattern making, cutting and stitching garments listed under theory paper, making samples of darts, tucks, and seams	<ul style="list-style-type: none"> <li>To understand. Basics Knowledge of garment Construction.</li> <li>To understand. Basic knowledge of Fabric preparation</li> <li>To understand Basic knowledge of calculation of fabric</li> <li>To understand Basic knowledge of Fabric layout.</li> </ul>
176	Cardio-Nutrition	HSCDSE	Anatomical and histological structure of heart, cardiac muscle, valves, nodes of the heart, blood circulation in heart, function of heart, cardiac enzymology and its importance, electrocardiogram, and its importance, Heart sound, hypertension, hypotension, Myocardial fibrillation and atrophy of heart, brown atrophy of heart, atherosclerosis	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of heart.</li> <li>To understand Basics Knowledge of function of heart</li> <li>To understand Basic knowledge and effect of nutrients</li> <li>To understand Basic knowledge of various disease.</li> </ul>
177	LAB2: Cardio-Nutrition	BSCCN -3P	Histological structure of heart, various images of healthy heart, sonographic images, analysis of serum, planning of therapeutic diets for various diseases of heart, analysis of various lipid profile and its relationship with cardiac disease	<ul style="list-style-type: none"> <li>To understand Basics Knowledge of heart.</li> <li>To understand Basics Knowledge of function of heart</li> <li>To understand Basic knowledge and effect of nutrients</li> <li>To understand Basic knowledge of various disease.</li> </ul>

178	Art of being happy	VAC - 03	Human ecology and happiness, Cross - cultural contexts, local and global perspective of happiness	<ul style="list-style-type: none"> <li>• Able to evaluate the factors contributing to the phenomenon of happiness in the personal, familial and community life of an individual in different cultures</li> <li>• Able to develop healthy interpersonal relationships and wellbeing, cherishing the values of Indian culture</li> <li>• Able to relate to the global phenomenon</li> </ul>
179	Emotional intelligence key of happiness	BPsyVT401	Emotions and emotional intelligence, models, managing emotions, techniques to manage emotions between IQ and eq	<ul style="list-style-type: none"> <li>• The students will be able to understand the different kinds of emotions a their roles in our life.</li> <li>• They will come to know in detail about Emotional Intelligence.</li> <li>• They will also learn about the difference between IQ and EQ and how to improve their EQ</li> </ul>
180	sociology of festivals	VAC 303	Concept of feasting, parva and festivals, ancient Indian religious festivals, social significance of religious festivals	<ul style="list-style-type: none"> <li>•</li> </ul>
181	conservation of plant diversity	BBOTVACT 301	Plant diversity - concepts, significance and application, Role of tissue culture	<ul style="list-style-type: none"> <li>• Get an overview of the significance of plant diversity, and an insight into global strategies for developing workable models for its exploration and conservation</li> <li>• Develop an understanding of the importance of national parks, biosphere reserves and sanctuaries</li> <li>• Understand the role played by government and non- government organizations in conserving biodiversity</li> </ul>
182	jan sanchar madhyam	VACHIN03	Definition of jansanchar madhyam, process of jansanchar, print media, electronic media	<ul style="list-style-type: none"> <li>• विद्यार्थी जनसंचार की विशिष्ट शक्ति से संपन्न होंगे।</li> <li>• विद्यार्थियों को जनसंचार के परम्परागत एवं आधुनिक माध्यमों की जानकारी मिलेगी।</li> <li>• विद्यार्थी जनसंचार के विविध प्रक्रियाओं से परिचित होंगे।</li> <li>• जनसंचार के क्षेत्र में लेखन क्षमता विकसित होगी।</li> </ul>
183	managerial skills	BBCVA - 301	Concept, meaning, defition of management, managerial role, decision making, motivation	<ul style="list-style-type: none"> <li>• Identify and explain the managerial skills used in business.</li> <li>• Get proper knowledge of decision making process and technique</li> <li>• Acknowledge the role of motivation in the field of business as well as society.</li> </ul>
184	physiochemical analysis of water	CHEMVAC0 03	Water and its quality parameters, water analysis, water treatment	<ul style="list-style-type: none"> <li>• To Understand About Water Quality Parameters.</li> <li>• To Know About The Analysis Of Water</li> <li>• To learn about water treatment techniques</li> </ul>
185	indian economic thought	BECOV - 303	Economic thought of kautilya, Ranade, Gopal Krishan gokhle, Mahatma Gandhi, J K Mehta, and Amartya Sen	<ul style="list-style-type: none"> <li>• It develop a chronological understanding of the development of economic thought.</li> <li>• It relates the developments in Indian thought with contemporary issues.</li> <li>• The aim of this course is to impart a deep understanding of the reasons behind the rise of Economic Nationalism in India from 1857 to its eve of independence</li> </ul>
186	basics of mathematics	BMATHVT - 301	Divisibility, HCF and LCM, Decimal fractions, Square roots and Cube Roots, Averages, Percentage, Profit and Loss, Ratio and Proportion	<ul style="list-style-type: none"> <li>• To solve real life problems through the use of calculating the HCF and LCM</li> <li>• To know about profit and loss</li> <li>• Convert the percentage into fraction</li> <li>• Convert the percentage into a decimal</li> <li>• Recognize and apply ratios &amp; proportion to solve real life problems</li> </ul>
187	basic of avian diversity	BZOLVT - 301	Ecosystem with reference to Terrestrial and Aquatic ecosystem, Role of Birds in ecosystem, Nest Building and Nesting Behaviour	<ul style="list-style-type: none"> <li>• Know the local avian diversity</li> <li>• Understand Role and importance of Birds in ecosystem</li> <li>• Learn Biology and especial features of the birds</li> <li>• learn various methods of bird counting</li> <li>• Analyse complexity of ecosystem and importance of each and every organism in the nature</li> </ul>
188	Bhakti Tradition and Human Values	BHIST - 403	Bhartiya bhakti parampara - meaning and definition, Bharat ke pramukh bhakti sant	<ul style="list-style-type: none"> <li>• Through the medium of Bhakti tradition, there will be development of Human values and qualities in the students</li> </ul>

				<ul style="list-style-type: none"> <li>• There will be knowledge of the cultural and social aspects of India</li> <li>• The feeling of nationalism and all India will be awakened and strengthened.</li> <li>• They will be able to know about the main Bhakti poets and their thoughts.</li> </ul>
189	Advance technique of meal planning	HSCVAC - 03	Nutritional assessment and analysis, dietary guidelines, and guidelines interpretation, software for meal planning exchange list	<ul style="list-style-type: none"> <li>• The students will be able to understand basic concepts of meal planning</li> <li>• This includes insight of nutritional assessment.</li> <li>• Includes insights on exchange list and various nutritional assessments tools</li> </ul>
190	Emotional Intelligence	HSCV - 003	Fundamental of emotional Intelligence, social competence, emotional intelligence: measurement and development	<ul style="list-style-type: none"> <li>• Self-Awareness, Self-Management, Social Awareness &amp; Relationship Management.</li> <li>• Discover personal competence and techniques of building emotional intelligence.</li> <li>• Gain insights into establishing positive relationships</li> </ul>
191	Sociology of pilgrimages	SOCVAC - 003	Socio - Historical background of pilgrimages, social significance of pilgrimages	<ul style="list-style-type: none"> <li>•</li> </ul>
192	salesmanship	BBCVA - 401	Selling, personal selling, selling process, qualities of salesmanship, training to salesman	<ul style="list-style-type: none"> <li>• Understand and explain the personal sale strategies and environmental factors that affect the personal sales</li> <li>• Understanding to various stages in selling process and the catalytic role of sales person in the effective functioning of an organization</li> <li>• Learn some of the tools and techniques of selling process</li> <li>• Explain the preparations before contact the customer, how and when salesperson deal with a customer, ways of identifying customer needs and submission of the product to the customer.</li> <li>• Acquire knowledge on professional salesmanship and able to apply in their field</li> <li>• Explain the purposes of sales training, the topics to be included in the content of sales training and how the sales training can be organized.</li> </ul>
193	cognitive behavior therapy	BPsyVT401	Concept of Cognitive Behaviour Therapy, types of technique, Three pillars of CBT	<ul style="list-style-type: none"> <li>• The students will be able to understand the concept of CBT and Its application in our life.</li> <li>• They will come to know in detail about technique of CBT.</li> </ul>
194	Health sports and wellness	SPVAC401	Introduction to Health and Wellness, Management of Health and wellness Team games skills	<ul style="list-style-type: none"> <li>• To help understand the importance of a healthy lifestyle</li> <li>• To familiarize students about physical and mental health</li> <li>• To create awareness of various life style related diseases</li> <li>• To provide understanding of stress management</li> <li>• To four Games Related to impart The Basic Knowledge and Skills to four games.</li> </ul>
195	basic technology of meal planning	HSSEC -301	Introduction to meal planning, Indian food variety, simple cooking method	<ul style="list-style-type: none"> <li>• The students shall be able to evaluate the macro and micro nutrients</li> <li>• This includes insight on basic meal planning.</li> <li>• This includes insight on basic healthy cooking methods.</li> <li>• This includes insight on portion management</li> </ul>
196	fundamental of remote sensing and GPS	BGEOST - 301	Remote sensing - definition, development, platforms, types, Satellite remote sensing, atmosphere and Earth surface	<ul style="list-style-type: none"> <li>• Appreciate the development and uses of aerial and satellite remote sensing system and navigation satellite systems in India and other nations</li> <li>• Understand the basics of EMR and energy interaction in atmosphere on earth surface features;</li> </ul>
197	appreciating literature	SECEng02	Major categories of poetry, drama, and fiction, elements of drama, aspects of story telling	<ul style="list-style-type: none"> <li>• To remember how imagery works in poetry.</li> <li>• To understand the different forms of poetry and drama.</li> <li>• To demonstrate the ability of story-telling and critical thinking.</li> <li>• To assess and show their useful interpretative skill.</li> <li>• To review literary and non- literary texts.</li> </ul>

198	survey of achieves and museum	BHIST - 303	Archives - meaning and definition, museum - meaning and definition, history of archives and museum	<ul style="list-style-type: none"> <li>After study this Course student would be able to find a reliable sources. This study will give students complete knowledge of archives and museum which they can use professionally</li> </ul>
199	millet based entrepreneurship	HSCSEC - 301	Contribution of millets for food and nutritional security, technologies for millet based bakery products, value of millets	<ul style="list-style-type: none"> <li>To provide insights on the production, processing, and value addition of foods based on millets.</li> <li>To demonstrate hands on experience of developing millets based value-added products.</li> <li>To highlight millets as a health-food and a raw resource for the processed food product.</li> <li>To communicate information about the commercial prospects in millet.</li> </ul>
200	conservation of crop field bio fertilizer and organic manure	BBotSECT301	Microbiobiofertilizer, Mycorrhizal association, organic farming	<ul style="list-style-type: none"> <li>Understand the meaning and importance of crop field conservation.</li> <li>Learn the methods of crop improvement.</li> <li>Learn various microorganisms which are utilize as biofertilizers.</li> <li>Apply their knowledge in the crop fields to improve crops.</li> </ul>
201	Rachanatmak lekhan	HINSEC301	रचनात्मक लेखन : स्वरूप एवं सिद्धांत रचनात्मक लेखन विविध विधाएं	<ul style="list-style-type: none"> <li>छात्रों में हिन्दी भाषा व साहित्य की समझ विकसित होगी।</li> <li>छात्रों में लेखन की समझ व अभिरूचि पैदा होगी।</li> <li>रचनात्मक लेखन कौशल का विकास होगा।</li> <li>लेखन कला के विकास से साहित्यिक क्षमता का विकास होगा और रोजगार योग्य व्यक्तित्व निर्मित होंगे।</li> </ul>
202	leadership and team development	BBCSE-301	Meaning and concept of leadership, role and function of leader, team building, practice exercises	<ul style="list-style-type: none"> <li>Evaluate the traits of successful Leader.</li> <li>Use the leadership self-assessment tool to assess their leadership styles.</li> <li>Differentiate between different Leadership Styles with real life examples and demonstrate role play as a Leader in a team in the class.</li> <li>Analyse the strategies of building an effective team with a real-life example.</li> <li>Design shared vision and articulate business strategy of a hypothetical organization to create high performing Teams.</li> </ul>
203	Elementary physics and measurement part I	PHYSEC - 002T	Measuring units, conversion to SI and CGS, properties of matter, Electrostatics, Current Electricity	<ul style="list-style-type: none"> <li>Students learn to measure any body by using Vernier and Meter scale.</li> <li>Students learn to measure volume, area of any cylinder or wire by using Screw Gauge.</li> <li>They are also learn the elementary knowledge of properties of matter, current electricity and Electrostatic</li> </ul>
204	low cost nutritional recipes	HSCSEC-401	Low cost nutritional recipes, packaging and practical choices,	<ul style="list-style-type: none"> <li>To provide insights on the basic concept of nutritional</li> <li>To provide insights on packaging.</li> <li>To provide insights on costing.</li> <li>To provide insights on various low cost nutritional recipes.</li> </ul>
205	vermi composting	BZOOlst - 301	Introduction to vermiculture, biology of Eisenia fetida, vermiculture and harvest	<ul style="list-style-type: none"> <li>Students will be able to compost decomposing process in a limited space and describe the decomposing process</li> <li>The interested students will get the knowledge of composting.</li> <li>Students will get the employment.</li> <li>They can generate employment,</li> <li>They will also turn towards organic farming.</li> <li>Will help to maintain the environment pollution free and</li> <li>Will get the knowledge of biodiversity of local earthworms.</li> </ul>
206	quantitative aptitude	BMATHST - 401	Arithmetic progression, Geometric progression, Harmonic Progression, Mean, Median Mode	<ul style="list-style-type: none"> <li>Organize, manage and present Data</li> <li>Analyze and compare statistical data using measure of central tendency</li> <li>To calculate mean, median and mode in a variety of real-world examples where the data can be given as a list of values or as a</li> </ul>

				<ul style="list-style-type: none"> <li>frequency table</li> <li>To develop understanding and familiarity with concept of mean, median and mode</li> <li>To nurture the fundamental Mathematical skills for preparing and cracking competitive examinations</li> <li>To kindle the problem solving ability of students</li> </ul>
207	Contemporary economic issues	BECO - 303	Fiscal policy, expenditure of central government, revenue of central government, concept and types of budget	<ul style="list-style-type: none"> <li>understand Indian fiscal policies</li> <li>become informed participants in economic decision making</li> <li>analyze the different sources of expenditures &amp; receipts of government</li> <li>evaluate the concept of union budget</li> <li>understand the concept of zero based budgeting</li> </ul>
208	Elementary physics and measurement - II	PHYSEC - 003T	Use of Multimeter, Thermal effect of current, Magneto statics, time - varying field	<ul style="list-style-type: none"> <li>Students understand how to use soldering iron.</li> <li>Students learn to measure current and voltage by using Ammeter and voltmeter.</li> <li>They also learn the elementary knowledge of the thermal effect of current, Magnetostatic, and time-varying fields</li> </ul>
209	Stock market operating	BBCSE - 401	Concept and types of securities, primary market, secondary market, regulatory framework, demat trading	<ul style="list-style-type: none"> <li>Explain the basic concept of securities market;</li> <li>Practice trading on stock market;</li> <li>Analyze the legal framework of securities market;</li> <li>Explain different segment of Stock Exchange;</li> <li>Perform demat trading.</li> </ul>
210	Lab techniques in qualitative organic analysis	CHEMSEC-003	Basic principles, law of mass action, solubility products, qualitative analysis of anions, cations, interfering ions	<ul style="list-style-type: none"> <li>to understand basics of qualitative inorganic analysis.</li> <li>to know about the analysis of cations and anions</li> <li>to choose the reagents in inorganic analysis.</li> </ul>
211	Public opinion and survey research	BPOL SSE	Public opinion: meaning, definition, and importance, survey and research	<ul style="list-style-type: none"> <li>To inform the students about the Public Opinion and Survey Research.</li> <li>To be aware of research methods.</li> <li>To provide practical knowledge of the subject to the students.</li> </ul>
212	Entrepreneurship librarianship	BGLSE	Concept of libraries, information sources, managerial qualities of librarian	<ul style="list-style-type: none"> <li>To foster a basic understanding on library systems and its services and products.</li> <li>To enhance skill to acquire enormous resources available on various domain of knowledge, and, means and ways of its marketing.</li> <li>To exploit the exponential growth of information &amp; ensuring smoother access, both print and digitally, and utilized required information commercially.</li> <li>To enhance the information search skill and to make student efficient enough to identify, locate and evaluate quality information resources and its marketing.</li> </ul>

  
 Principal  
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