

GOVT. DEGREE COLLEGE ANANTNAG

Subject: Plan of action chalked out by the College Administration for the Best Academic Model of the year 2022-23.

The Plan of Action chalked out by the college Administration regarding the implementation of COVID SOP's, Covid Appropriate Behavior (CAB), Quality culture and Best possible learning outcomes for the academic session 2022-23 is appended in the **Annexure I,II and III.**

Annexure I: Plan of action chalked out by the College Administration regarding the implementation of Covid Standard Operating Procedures (SOP's) and Covid Appropriate Behavior (CAB):

- I. The College administration has decided to start the class work of BG 2nd semester batch 2021, BG 3rd Semester Batch 2020 and M.COM 1st Semester, Batch 2021 w.e.f from 16-02-2022 through offline mode.
- II. The college administration directed to all the stakeholders (Staff members and Students) to follow the COVID 19 Standard Operating Procedures (SOPs) and Covid appropriate Behavior (CAB) in their respective departments.
- III. The Principal of the college advised the Heads and Coordinators of the departments to ensure the implementation of guidelines related to social distancing and Covid appropriate Behavior (CAB).
- IV. The College administration informed the students to submit the Covid Vaccination Certificates in their respective departments and also advised that no student will be allowed to attend the classes without college uniform and college identity proof.
- V. The Principal of the college directed the discipline Committee to maintain the discipline in the campus and advised that no student should be allowed to attend the classes without proper uniform, face masks and college identity proof.

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Annexure II: Plan of action chalked out by the College Administration in the beginning of this Academic year 2022 towards the Quality initiatives, Sustenance and Enhancement:

S. No.	Subject Title	Plan of Action
1.	To start the awareness Programmes regarding the implementation of National Education Policy 2020.	College will organize the workshops, seminars and conferences regarding the awareness and implementation of National Education Policy 2020 as per the UGC norms from the academic session 2022.
2.	Introduction of new Integrated UG-PG, Hon's and PG Programmes in various disciplines from the academic session 2022.	Under NEP 2020, the college will introduced the (3+1) Years Hon's, (4+1) years UG-PG Integrated Programmes, 2 years PG and Ph.D Programmes in different disciplines from the academic session 2022-23.
3.	Introduction of B.Voc. and embedded skill courses in the different disciplines which will increase the employability of the students.	The College will introduce the Bachelor of Vocational in Software Development from the academic session 2022 in the academic session 2022, college will introduce the different embedded skill courses like paramedical, pharmacy, infrastructure and engineering, innovation and incubation, banking and taxation, software development in various disciplines from 3rd to 6th Semesters.
4.	To prepare and develop the e content modules for different courses in the institution.	The College will develop and prepare the E Content modules for the different Programmes in the academic session 2022.
5.	To start the Extension activities and outreach programmes	The Institution will conduct the extension activities and outreach programs related to Social Services like NSS, Gender issues, Sexual harassment, Swatch Bharat Abhiyan, Yoga Day etc.
6.	To start the MOU's and Collaborations with reputed agencies.	The college will firm up MOU's , collaborations and Linkages with state, central organizations and industrial corporate areas
7.	To firm up Faculty and student exchange programmes with industrial-academia Institutions.	The college will exchange the faculties and students to different state, central Government organizations and industrial corporate areas.
8.	To Start Career Counseling for Students	The College will Organize Coaching for competitive examinations like PG entrance Coaching, JRF/NET, KAS/IAS/GATE etc.
9.	Develop the Interactive feedback, analysis and monitoring system in the institution.	The college administration will Collect the Feedback from students, parents, Teachers and Alumni about the quality of the institution.
10.	To start the Student Satisfaction Survey (SSS) in the institution.	The institution will collect the Student Satisfaction Survey (SSS) regarding the quality Education. The college will collect the response from students through questionnaire method and these response will be analyzed and also action taken report will be upload on the college website.
11.	To encourage the women Development and provide them the	The college has established the women development cell in the college to address the grievances and needs of the

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	safe and secure environment within the college campus.	female students and the staff of college. The college has kept the separate common rest room for females. Besides this the college has established the beautiful green girls park.
12.	To encourage the faculty members to participate in the faculty development programs.	College administration will encourage the faculty members to participate in general orientation courses, Refresher courses and workshops in this current academic session.
13.	To monitor the teaching learning process in the offline mode.	The college academic affairs will monitor the teaching learning process in the offline mode with the result cent percent syllabus was completed in all the subjects in the allotted time.
14.	To create more sports facilities for the students.	In addition to already existing sports facilities Yoga center has been established in college for students.
15.	To encourage the faculty members for publishing their research findings in reputed Research journals.	The College administration will encourage the faculty members for publishing their research findings in SCOPUS/SCI Journals. The college will allow the faculty members to present their research articles in different national and international conferences and Seminars.
16.	Constitution of Research Board	A research advisory board will be constituted for supervising the students in Projects, Internships and different Research areas.
17.	Student centric methods will be adopted in teaching learning process	The faculty members of the college will adopt the different student centric methods : I. Market Surveys , Field survey and field trips II. Engaging students in Public Awareness programmes, III. Participation of students in Seminars, Conferences , workshops, Study Tours , Historical tours etc.

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Annexure III: Plan of action chalked out by the departments of the college in the beginning of this Academic year 2022 towards the Possible Learning Outcomes of different Programs/ Courses for the academic Session 2022-23:

S.NO.	Department	Possible Learning Outcomes
1.	Education	<ol style="list-style-type: none"> 1. The course is designed to provide modern techniques which were helpful to proof arguments. 2. It gives knowledge about values, morals and manners. 3. It describes the impact of society and culture on human diversity. 4. Makes us aware about the importance of vocationalization of secondary education. 5. Helps us to know the importance of guidance and counseling. 6. Planning and execution of activities to enhance physical, motor, cognitive and speech development in infants. , Planning of parent teacher meet, Methods and tools to assess progress of children. 7. Helps the students in making the best possible adjustment to the current situation in the educational institutions, in the home and the community. 8. It enables the students to accept the things which they cannot change in life and differentiate what they can change and cannot change in life. 9. To enable the students to achieve self- development and self-realization. 10. To train the students to recognize common mental health problems
2.	History	<ol style="list-style-type: none"> 1. To acquaint the learners about the political, social and economic and cultural; changes in ancient India. 2. To develop among the learners a critical and analytical ability of reveling at past. 3. To acquaint them about the rise of nationalism and the course of struggle for freedom. 4. To acquaint them about the transitions from pre modern economy to modern capitalist economy. 5. To enable learners to understand the nature, cause and consequences of major world revolutions. 6. To acquaint learners about the growth and development in Indian economy.
3.	Geography	<ol style="list-style-type: none"> 1. To impart detailed understanding of the various geo-physical processes operating on Land, Ocean and Atmosphere. 2. To trace the development of the subject through time in light of the imprint of various civilizations. 3. To train students with the contemporary techniques of data generation and analysis with the help of survey, remote sensing, GIS and Quantitative techniques. 4. Understand the evolution and present day configuration of continents on the surface of earth in light of Continental Drift, Sea-Floor spreading and Plate Tectonics.

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		<ol style="list-style-type: none"> 5. Understand dynamism of earth's surface in context of different Endogenetic and Exogenetic forces. 6. Efforts for bringing the subject on modern lines with the introduction of quantitative revolution and the subsequent methodological changes which finally culminated with the introduction of remote sensing and GIS. 7. The course equips the students to understand the dynamic relationship between man and his environment with emphasis on studying Geography as Human Ecology. 8. Have a comprehensive view of evolution and spread of human race and their various social and biological characteristics. 9. Comprehend spatial distribution of human population, its growth and determinants. 10. The dynamic relationship between resources and population is also taken care of. 11. Geographical personality of Europe continent with emphasis on geo-physical and Socio-economic setup. 12. Geographical attributes of North America continent with emphasis on geo-physical and Socio-economic setup. 13. Regional geography of India-its physical, climatological and socio-economic attributes. 14. Regional geography of the state of Jammu and Kashmir with the emphasis on various geo-physical and socio-economic attributes. 15. To equip the students with the concept of map and its various elements with emphasis on Digital cartography. 16. Relevance and application of various statistical techniques in geographical enquiry. 17. Data Broad contours are laid for the introduction of remote sensing and GIS techniques.
4.	Urdu	<ol style="list-style-type: none"> 1. Learn the art and style of writing essays. 2. Read Urduprose, to know famous Urdu writers and their famous works. 3. Know famous Urdu <i>Gazals</i>, poets, their poetry and its special features. 4. Know about Urdudrama, dramatists and their contribution in Urdu literature. 5. Get opportunity to read and comprehend specialty of Urdu <i>Gazals</i>. 6. Learn to read and write Urdu poems (<i>Nazam</i>). 7. Get knowledge about history of Urdu literature, its meanings and importance of major Urdu dialects. 8. Understand the different views about Urdu language and expansion of urdu language. 9. Learn and grasp the essence of Urdu poetry, prose, stories, short stories and novels. 10. Learn about the major contribution of famous Urdu writers. 11. Know about Urdu literature with its historical perspective. 12. Different views about Urdu language.

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		<p>13. Gain knowledge about major dialects of Urdu language.</p> <p>14. To know about origin and development of criticism.</p> <p>15. Know about the famous Urdu critics.</p> <p>16. To know about the some aspects of criticism.</p> <p>17. To know about how to analyse prose and poetry.</p> <p>18. Learn about the life and contribution of Allama Iqbal in Urdu Literature.</p> <p>19. Read and learn about the famous poet Allama Iqbal.</p> <p>20. Learn what is <i>Ilm-e-Bayan</i> (Literary device sand its types), <i>Takti</i>(Understand & exercise poetic meter)</p> <p>21. To know about self -realization.</p>
5.	Geology	<p>1. To study the crystal chemistry that enables students in classifying minerals in various crystal systems.</p> <p>2. To understand the economic value of minerals, utility, Minerals form the backbone for the development of society, and raw materials for its industrial sector.</p> <p>3. Aims at training students to understand the economic value of minerals and to identify areas of interest for such deposits.</p> <p>4. To understand the impact of mining and exploration on environment and at the same time to look for sustainable development.</p> <p>5. Emphasis on sustainable development of its natural resources and development.</p> <p>6. This is off course the most important part of the course that includes collection, interpretation, and synthesis of geological data in the field (outside, in nature).</p> <p>7. Generally consists, at least in part, of making geologic maps.</p> <p>8. Field Geology allows students to achieve expertise in understanding of geological formations insitu with their potential for exploration.</p> <p>9. Collection of rock samples, mineral samples, fossils.</p> <p>10. Study of chemical processes within, upon and above the earth with immediate understanding of geological processes occurring in nature.</p> <p>11. Topographic maps, use of satellite imageries and GPS & GIS.</p>
6.	Physics	<p>1. The students are introduced to Vector calculus, Extension of vector algebra to operator, Divergence, curl and related theories.</p> <p>2. Students understand the concept of Special theory of Relativity, Newton's theory of Gravitation, Theory of Elasticity.</p> <p>3. Concept of static and moving charge, Charge motion applications, effects of fields and different theories relating electromagnetic fields, Electromagnetic wavetheory, Electromagnetic induction and different laws governing it.</p> <p>4. Understanding basic laws of thermodynamics, Kinetic theory of gases and various transport phenomena, Maxwell Boltzmann Distribution, Relation between Entropy and thermodynamic probability, Bose-Einstein and Fermi-Dirac Statistics.</p> <p>5. Students Study and analyze the waves produced on a stretched string, solve wave equation on a stretched rectangular membrane by method of</p>

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		<p>separation of variables.</p> <ol style="list-style-type: none">Students get familiar with designing an optical viewing system, interference in thin parallel films and understand the concept of Polarization and double refraction.Students are introduced to basic foundations of Quantum mechanics, Applications of Quantum mechanics to atomic phenomena.Introduction to nuclear and particle physics.Crystal Theory and different Theories of specific heat, Concept of Phonons, Basic solid state physics and its extension to higher domains.Preliminary course on electronics and circuit analysis of different electronic instruments.
7.	Chemistry	<ol style="list-style-type: none">Students will understand the fundamental properties of atoms, molecules, and the various states of matter with an emphasis on the particulate nature of matter and the “laws” governing the physical/chemical behavior of molecules. And how to predict molecular geometries of selected molecular species. The thermodynamic and kinetic forces governing chemical reactions.The fundamentals of acid/base reactions including pH calculations, buffer behavior, acid/base titrations, electrochemistry, redox reactions and precipitation reactions, the basic colligative properties of solutions and bonding models for simple inorganic and organic molecules in order to predict structures and important bonding parameters.Students will gain an understanding of the use of graduated cylinders, graduated pipettes, and volumetric pipettes for volumetricMeasurement an analytical balance for mass measurement and the use of thermometers and temperature probes.Students will understand how to use their understanding of organic mechanisms to predict the outcome of reactions and how to design syntheses of organic molecules. And the use of nuclear magnetic resonance spectroscopy, and infrared spectroscopy for organic structure elucidation.After the completion of course, students will be able to understand, how to perform common laboratory techniques, including reflux, distillation, steam distillation, recrystallization, vacuum filtration, aqueous extraction, thin layer chromatography, column chromatography and How to characterize organic molecules by physical means, including mp, bpt etc.Students will gain an understanding of the physical models underlying our current perception of atomic and molecular behavior at the most basic, fundamental level. Understand basic terminology of quantum chemistry and spectroscopy in context of these models.Students will gain an understanding of the preparation for each experiment by studying lab handouts and manuals and the Safety Requirements and lab skills to perform physico-chemical experiments and How to keep records of instruments, parameters, and

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		<p>experimental observations besides reporting of experimental results (including error analysis)</p> <ol style="list-style-type: none"> 9. Students will gain an understanding of the bonding fundamentals for both ionic and covalent compounds, including electro negativities, bond distances and bond energies using MO diagrams and thermodynamic data, Predicting geometries of simple molecules. The bonding models, structures, reactivity's, and applications of coordination complexes, boron hydrides, metal carbonyls, and organometallics. 10. After course completion students will understand basic and advanced laboratory procedures used in inorganic synthesis including spectroscopic and analytical techniques for identification and characterization of small molecules. The chemical literature and to read and understand technical literature related to the discipline. 11. Students will learn how to interpret spectra and the connection between common approximation methods and Standard chemical frameworks (Born-Oppenheimer approximation, molecular orbitals, for example) 12. Students will be able to understand the fundamentals of nuclear decay, feasibility of nuclear decay and the proper methods to detect various types of ionizing radiation. The biological effects of different types of ionizing radiation and learn the unique characteristics of cutaneous radiation burns and whole-body radiation exposure and how positron-emitting medical isotopes are produced, detected, and used for diagnostic imaging. 13. Students will gain an understanding of the basic principles of protein and polysaccharide structure, the chemical properties of amino acids, cofactors, and sugar , the Enzyme kinetics and their application, Nucleic acid structure , DNA replication and the regulation of pathways and mechanisms of action for DNA. 14. After completing the course, the student should be able to describe and explain photochemical and photo physical processes and mechanisms with suitable theoretical models, and apply established experimental methods for the investigation of these processes.
<p style="text-align: center;">8.</p>	<p style="text-align: center;">Biotechnology</p>	<ol style="list-style-type: none"> 1. Biotechnology provides the basic platform to acquaint the students in the areas of biochemistry, immunology, genetics, microbiology, and molecular biology and hence expands their sphere of thinking and makes them more sensitive and responsible towards society and environment. 2. Since most of the theory topics dealt in the biotechnology can be proved experimentally, students will be able to comprehend them in a better way which in turn improves their analytical power and creative thinking. 3. Being interdisciplinary in nature and as innovation is almost inbuilt in many of the core subjects, it offers more possibilities and

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		<p>opportunities for the students to explore the world.</p> <ol style="list-style-type: none">4. Biotechnology and skill development goes hand in hand which means by the time students' pass-out, they have enough skill behind them which in turn enhances their employability.5. Understanding of structure, classification, function and physio-chemical properties of different bio-molecules.6. Understanding of nature, classification and mode of action of enzymes along with study of kinetics and energetics of enzyme catalyzed reactions.7. Hands on training on enzyme assay and estimation of different bio-molecules8. Understanding of basic differences between eukaryotic and prokaryotic cell system, structure-function relationships of different cell organelles.9. Detailed understanding of bacteria/viruses and gene transfer methods in bacteria.10. Description of different types of blood cells and organs involved in primary and secondary immune response.11. Practical know-how of different techniques/methods used in microbiology and immunology.12. Understanding of the structure of DNA, process of replication, transcription and translation.13. Brief description of cloning vectors and various tools utilized in recombinant DNA technology.14. Hands-on training on various commonly used techniques in molecular biology.15. Understanding of basic concept of plant and animal tissue culture, and their applications.16. Practical know-how of basic techniques used for initiation and maintenance of cultured tissues/ cells.17. Understanding of biophysical and molecular biology techniques and their applications.18. Understanding of microbial growth, kinetics and measurement.19. Idea of bioreactors along with the complementary components and processes.20. Understanding of various methods and techniques involved in downstream processing of products.21. Understanding of basic statistical methods as applied to biological sciences.22. Concept of Bioinformatics, types of data and databases.23. Understanding of tools used for data analysis and prediction of different levels of protein structure.24. Basic concept of Environmental pollution, its types, causes and treatment.
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		<p>25. Understanding of global environmental issues and their mitigation.</p> <p>26. Brief idea of bioremediation and biodegradation of organic pollutants.</p> <p>27. Understanding of the process of cell cycle, cell division and its control.</p> <p>28. Understanding different types of mutations, mutagens and the mechanism of repair.</p> <p>29. Basic concept of cell signaling and cancer.</p>
9.	Political Science	<p>1. Students will be able to lead and manage in public governance.</p> <p>2. Students will participate in and contribute to the policy process.</p> <p>3. Students will be able to analyze, synthesize, think critically, solve problems, and make decisions.</p> <p>4. Students will articulate and apply a public service perspective.</p> <p>5. Students will be able to communicate and interact productively with a diverse and changing workforce and citizenry.</p> <p>6. The main focus in this field is to introduce the students with the evolution and outcome of the constitution making process.</p>
10.	Seed Technology	<p>1. Students will learn the basic concepts in seeds of different crops and the different diseases of seeds and their management.</p> <p>2. Students will learn the different tests with regard to seed viability, germination and vigour etc.</p>
11.	Islamic Studies	<p>1. Introduction of Islamic Civilization the course is to have preliminary knowledge of Islamic doctrine and ritual worship etc.</p> <p>2. Islamic Civilization under Abbasid and the Muslim Spain, the course aims the study of Islamic Civilization in terms polity education and science.</p> <p>3. Islamic Religious Sciences the course aims is the study of religious science of Islam the Quran, Sunnah and Fiqh.</p> <p>4. Muslim Philosophy and Tasawwuf, the course aims to attain the early development of Muslim theology and philosophy etc.</p> <p>5. Islam in the Modern world, the aims of the course is to acquire knowledge about Islamic Intellectual, educational social development in the modern world.</p> <p>6. Islamic Social Sciences, the course aims is to know the concept and development of social sciences in Islam by studying basic themes of Islamic polity ,economy, sociology, and psychology etc</p>
12.	Economics	<p>1. The student will be able to learn the concepts about the study the behavior of individual economic agents-including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, welfare economics and international trade.</p> <p>2. The student will be able to learn the concepts and process of measuring macroeconomic variables like NI and its components, consumption, savings, investment, interest, inflation, unemployment, aggregate demand, aggregate supply and balance of payments.</p> <p>3. The student will be able to understand the key issues related to the</p>

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		<p>Indian economy.</p> <ol style="list-style-type: none"> 4. The student will be able to learn the concepts related to the demographic features, occupational structure, poverty and inequality; conceptual and measurement issues in Indian economy. 5. The student will be able to understand the importance of planning and economic reforms undertaken by the government of India. 6. The student will be able to lean the Interest rates, monetary management and instruments of monetary control. 7. The student will be able to understand the Financial and banking sector reforms and monetary policy with special reference to India.
13.	Hindi	<ol style="list-style-type: none"> 1. To develop the basic language skills of listening, speaking, reading and writing among the students. 2. To make students understand the different grammatical structures of HINDI language. 3. To inculcate in students imaginative and creative use of HINDI (National Language). 4. To expose students to different world literatures and develop their understanding and appreciation of these literatures.
14.	Zoology	<ol style="list-style-type: none"> 1. Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms 2. Analyze complex interactions among various animals of different phyla, their distribution and their relationship with the environment 3. Understands the complex evolutionary processes and behaviour of animals 4. Correlates the physiological processes of animals and relationship of organ systems 5. Gain knowledge of Agro based Small Scale industries like sericulture, fish farming, butterfly farming and vermicompost preparation. 6. Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties 7. Apply the knowledge and understanding of Zoology to one's own life and work 8. Develops empathy and love towards the animals 9. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology and applied Zoology 10. Analyse the relationships among animals, plants and microbes 11. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.

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		<ol style="list-style-type: none"> 12. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine 13. Gains knowledge about research methodologies, effective communication and skills of problem solving methods. 14. Contributes the knowledge for Nation building. 15. Students will be taught different laboratory based techniques, including diagnosis of some protozoan and helminthes diseases like Amoebiasis, <i>Giardiasis</i>, Ascariasis and Taeniasis 16. Students will learn major hematological techniques like estimation of Hb, blood grouping, estimation of blood sugar etc. 17. Students from various semesters will learn different physicochemical tests of water collected from various water bodies as per international standards (APHA, 2005) 18. Students will learn basic research skills, such as selection of research topic, hypothesis design and literature survey 19. Student outreach programmes viz. ‘Teaching Zoology beyond Classroom’, where students are given opportunity to visit different areas of zoological importance and basic concepts of Zoology taught under natural setting. 20. Zoology tours are arranged for different semesters of BG students to get first hand information such as faunal diversity, evolutionary aspects of animals, status of wild animals and other emerging areas. 21. Seminars and symposium will be organized on regular basis having relevance to the emerging areas in life science which has an immediate impact on the academic domain of students.
15.	Persian	<ol style="list-style-type: none"> 1. Introduction to Persian language, teaching of Persian grammar, Study of Persian prose and Lectures on moral education. 2. Introduction to classical Persian poetry, Study of Persian Ghazal., Detailed history of life and literary works of Sheikh Saadi Sheerazi, Moulana Jami and Sheikh Yaqoob Sarfi. Detailed study of Persian literature of samanid period. 3. Higher concepts of Persian language, Evaluation of “Hidayt Ul Tarjamah” by SL Goomer, CO4. 4. Introduction to poetry by Rudaki and Khayyam, Introduction to life and contribution of Moulana Rumi and Ghani Kashmiri, Definition of the poetic genres with suitable Persian examples. 5. Critical study of the literary works of Moulana Rumi, Rudaki, Khayyam and Ghani Kashmir, Study of literary history of Gaznavi period. 6. Study and translation of 7th, 8th, 9th and 10th chapter from the book “Dourae Aamoozishi 7. Zaban-e-farsi” by Mehdi Zargamiyan. 8. Extension of Persian language to science and world politics, Lectures on nature and its phenomena, To attempt the exercises given at the end of each lesson. 9. Introduction to poetry by Firdousi and Unsuri, Modern Persian

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		poetry, Classical Persian poetry, Study of history of saljok period with special reference to eminent poets and prose writers.
16.	Environmental Sciences	<ol style="list-style-type: none"> 1. To create awareness among students and a sensitivity towards environment and its problems 2. To impart and to acquire basic knowledge of the environment and allied problems 3. To help students develop an attitude of responsibility towards environment, acquire social values, and a feeling of concern for environment and to act in a way to conserve and protect the environment and be compassionate towards other creatures 4. To develop a sort of skill among students for identifying the environmental problems and to come with possible solutions for current pressings problems of environment. 5. To involve students at all levels in working towards the betterment of environment.
17.	BCOM Hon's	<ol style="list-style-type: none"> 1. Bachelor's Degree in Commerce results in giving comprehensive knowledge of Accounting, Marketing, Human Resource Management, Business and Corporate Law, Economics, Finance, Management, Tax and several other branches of Commerce that includes Investment, Insurance, and Banking. Thus, this programme helps students in building a concrete footing for advanced studies in Commerce and to stand with the requirement of business sector, insurance and banking seeking youth fit for employment. 2. The course will enable the learners to maintain the books of accounts and preparation of the financial statements of a business enterprise to evaluate the financial performance/position and to provide data for making financial decisions. 3. To familiarize the students about the basic knowledge and understanding of corporate accounting and thereby inculcating the skill of preparation, analysis and interpretation of the corporate financial statements. The students will also learn about the Companies Act, 2013 which provides the rules and regulations for managing and controlling the corporate businesses in the country. 4. To familiarize the learners about the basic understanding of cost accounting thereby making them able to ascertain and control the costs of goods and services in the manufacturing organizations. 5. To enable the students to understand the framework of indirect taxation in India. The students will learn about the basic principles of Goods and Services Tax and the skill of submitting the online GST returns will be imparted to the students. 6. To enable the students to understand the framework of Income Tax in India and acquiring the skill of making assessment of tax liability of different types of assesses and filing of online income tax returns. 7. To familiarize the students about the basic knowledge of financial management. The student will learn about the different sources of finance available to a business enterprise and also the optimum

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		<p>utilization of these financial resources.</p> <ol style="list-style-type: none"> 8. The student will have the knowledge and understanding of the banking and insurance sector in the country. The student will learn about the role and importance of these sectors in the functioning of business enterprises in the economy. 9. To familiarize the students about the mercantile law in the country which provides the rules and regulations for entering into valid business transactions.
18.	BBA Hon's	<ol style="list-style-type: none"> 1. Students completing this programme will be able to develop managerial knowledge and tactical dexterity, with a broader skill set and encourages them to seek out audacious, innovative solutions for today's business. 2. The students will gain an understanding of the functions and responsibilities of the managers. The students will learn about the tools and techniques to be used in the performance of managerial jobs. 3. To enable the students to formulate business problems and provide innovative solutions thus, molding them into future visionaries, management leaders that are compassionate yet efficient. 4. To familiarize the students about the entrepreneurial process of creating new businesses, role of creativity and innovation in entrepreneurial startups, managing family owned business in the context of social innovation and entrepreneurship. 5. To provide an understanding of key terms, Concept, theories and practices within the field of human resource management and provide innovative solutions to the problems therein. The students will have the understanding and skill of managing and controlling the human resource in an organization. 6. Enabling the students to demonstrate effective application of concepts, tools and techniques to practical situations for diagnosing and solving organizational problems, thus augmenting the capability of making decisions in business landscape. 7. To enable the students to understand the basic tools and techniques for managerial decision making to be taken for the efficient management of the organization.
19.	STATISTICS	<ol style="list-style-type: none"> 1. Students will acquire knowledge of Statistics and its scope and importance in various areas such as Medical, Engineering, Agricultural and Social Sciences etc. 2. The UG Students should be able to demonstrate the ability to use skills in Statistics and different practicing areas for formulating and tackling Statistics related problems and identifying and applying appropriate principles and methodologies to solve a wide range of problems associated with Statistics. 3. To enable the students to acquire fundamental understanding of the academic field of Statistics and its different learning areas and applications in government/public service and private sectors.

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		<ol style="list-style-type: none"> 4. To highlight the role and importance of statistical modeling and computational techniques in Current Research areas. 5. To demonstrate relevant generic skills and global competencies; such as problem-solving skills, investigative skills, communication skills, analytical skills, ICT skills and personal skills. 6. To demonstrate professional behavior such as being objective, unbiased and truthful in all aspects of work and avoiding unethical, irrational behavior. 7. The students shall usage appropriate experimental designs to analyze the experimental data. 8. The students will acquire knowledge about the policy making, planning and systematic implementation. 9. The students will be in a position to analyze and interpret and take appropriate decisions in solving real life problems using statistical tools. 10. The students will be in a position to use different Statistical packages for graphical interface, data analysis and interpretation. 11. The students will get acquainted with computer languages and softwares such as; MINITAB, R, TORA, SPSS and C Programming.
<p style="text-align: center;">20.</p>	<p style="text-align: center;">Botany</p>	<ol style="list-style-type: none"> 1. The students will be able to demonstrate skills in laboratory, field and glasshouse work related to mycology and plant pathology. 2. Develop an understanding of microbes, fungi and lichens and appreciate their adaptive strategies. 3. Demonstrate an understanding of archegoniatae, Bryophytes, Pteridophytes and Gymnosperms 4. Develop critical understanding on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms 5. Understanding of plant evolution and their transition to land habitat. 6. Demonstrate proficiency in the experimental techniques and methods of appropriate analysis of Bryophytes, Pteridophytes, Gymnosperms 7. The students will be able to Classify Plant systematics and recognize the importance of herbarium and Virtual herbarium. 8. Generalize the characters of the families according to Bentham & Hooker's system of classification 9. The students will be able to evaluate the structural organization of flower and the process of pollination and fertilization. 10. the students will be able to Recognize the importance of Carbon assimilation in photorespiration 11. Classify the enzymes and explain mechanism of action and structure, Interpret the Biological nitrogen fixation in metabolism 12. The students will be able to analyze the structures and chemical properties of DNA and RNA through various historic experiments. 13. Differentiate the main types of prokaryotes through their grouping abilities and their characteristic 14. Gain an understanding of various steps in transcription, protein synthesis and protein modification.

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		<p>15. The students will be able to have conceptual understanding of laws of inheritance, genetic basis of loci and alleles and their linkage.</p> <p>16. Comprehend the effect of chromosomal abnormalities in numerical as well as structural changes leading to genetic disorders.</p> <p>17. Develop critical understanding of chemical basis of genes and their interactions at population and evolutionary levels.</p> <p>18. Develop conceptual understanding of plant genetic resources, plant breeding, gene bank and gene pool.</p>
21.	Mathematics	<ol style="list-style-type: none"> 1. To familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences. 2. To provide students sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics. 3. To enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problems in mathematics. 4. To Link the fundamental concepts of groups and symmetries of geometrical objects. 5. To visualize complex numbers as points of \mathbb{R}^2 and stereographic projection of complex plane on the Riemann sphere. 6. To apply various numerical methods in real life problems. 7. To develop broad and balanced knowledge and understanding of definitions, concepts, principles and theorems. 8. To develop ability to communicate various concepts of mathematics effectively using examples and their geometrical visualizations.
22.	BCA Hon's	<ol style="list-style-type: none"> 1. Define classes for a given situation and instantiate objects for specific problem solving. 2. Learn and implement different object oriented concept like polymorphism etc. 3. Reuse available classes after modifications and extend functions of classes by inheritance. 4. Problem solve through modeling of real world phenomena using mathematics and computing. 5. Demonstrate an understanding of relations and functions and be able to determine their properties. 6. Demonstrate different traversal methods for trees and graphs. 7. Define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation 8. Learn in detail different functions of an Operating System like memory management, processor management etc. 9. Be aware of principles and protocols of internetworks. 10. Understand the basic issues in information security. 11. Understand and apply amortized analysis on data structures, including binary search trees, heaps, and disjoint sets. 12. Efficiently implement different Sorting and Searching Techniques.

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		<p>13. Understand the various activities undertaken for a software development project following the Function Oriented Design & Object oriented Design.</p> <p>14. Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access.</p> <p>15. Use classical Artificial Intelligence techniques, such as search algorithms, minimax algorithm, neural networks, tracking, robot localisation.</p> <p>16. Analyze and resolve security issues in networks and computer systems to secure an IT infrastructure.</p> <p>17. JDBC: Establishing Connectivity and working with connection interface, working with statements, Creating and Executing SQL Statements, Working with Result Set Objects.</p> <p>18. Able to emphasize basic theoretical tools to engage the various forms of visual culture that are increasingly prevalent in society</p> <p>19. Appreciate the underlying mathematical relationships within and across Machine Learning algorithms and the paradigms of supervised and un-supervised learning.</p> <p>20. Provide an opportunity to practice different phases of software/system development life cycle.</p>
23.	Kashmiri	<p>The Undergraduate Students will be able to learn :</p> <ol style="list-style-type: none"> 1. Knowledge of kashmiri language and literature. 2. Pronunciation of Prose and Poetry. 3. Ability to read text in historical and cultural contexts. 4. Provide Basic knowledge of Grammar. 5. Ability to translate Urdu into other languages. 6. Sufi Poetry .
24.	English Hon's	<p>The Undergraduate Students will be able to learn :</p> <ol style="list-style-type: none"> 1. Analyse literary texts 2. Interpret literary texts 3. Create imaginative and original literature in at least one genre 4. Understand significant developments in the history of English and American literature 5. Apply theoretical approaches to critical reading of literary texts
25.	Clinical Biochemistry	<ol style="list-style-type: none"> 1. To acquaint the students with basic understanding of the structure and properties of macromolecules that interact to maintain and perpetuate the living systems. 2. Knowledge on the structure and function of different biomolecules would enable the students to consolidate their focus on understanding various metabolic pathways crucial for the sustenance of living systems. 3. To impart students with basic aspects of microbiology, host-pathogen interaction, cellular components of the immune system and the disorders associated with cellular immune system. 4. Practical course will impart hands-on skills in basic techniques of cell

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		<p>culture and immunology and their utility in laboratory diagnosis of human diseases.</p> <ol style="list-style-type: none"> 5. To familiarize the students with basics of cells being structural and functional units of living organisms and their intricate organization. 6. The course also provides basic understanding of nucleic acids as genetic material, their structure and functional organization. 7. Practical course will impart hands-on skills in basic techniques of DNA isolation, PCR and nucleic acid estimation. 8. The students are expected to get thorough exposure to the genetic foundations of the cellular systems 9. To acquaint the students with structure, function and interrelationship of organ systems of the human body. 10. The lab course includes basic biochemical testing for organ systems. 11. The students will learn structural functional relation between human organ systems and the disorders associated with their malfunctioning. 12. To encompass students with basic knowledge of enzymes and their diagnostic significance. 13. The student will be able to describe the diagnostic significance of the main laboratory investigations 14. The students will understand the principles of analytical measurement in clinical biochemistry and identify the meaning and use of laboratory investigations in connection with diseases of the major organ systems. 15. This course encompasses the basic study of haematology and understanding of the various haematological disorders as well as their laboratory investigations. 16. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. 17. To provide basic understanding of diseases, their pathogenesis and basic techniques involved in preparation and investigation of disease tissue. 18. This will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students 19. To acquaint students with basic and advanced techniques employed in quantitative and qualitative analysis of biomolecules.
26.	PG Commerce	<ol style="list-style-type: none"> 1. The course will enable the learners to maintain the books of accounts and preparation of the financial statements of a business enterprise to evaluate the financial performance/position and to provide data for making financial decisions. 2. To familiarize the students about the basic knowledge and understanding of corporate accounting and thereby inculcating the skill of preparation, analysis and interpretation of the corporate financial statements. The students will also learn about the Companies Act, 2013 which provides the rules and regulations for managing and controlling the corporate businesses in the country.

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		<ol style="list-style-type: none"> 3. To familiarize the learners about the basic understanding of cost accounting thereby making them able to ascertain and control the costs of goods and services in the manufacturing organizations. 4. To enable the students to understand the framework of indirect taxation in India. The students will learn about the basic principles of Goods and Services Tax and the skill of submitting the online GST returns will be imparted to the students. 5. To enable the students to understand the framework of Income Tax in India and acquiring the skill of making assessment of tax liability of different types of assesses and filing of online income tax returns. 6. To familiarize the students about the basic knowledge of financial management. The student will learn about the different sources of finance available to a business enterprise and also the optimum utilization of these financial resources. 7. To familiarize the students about the mercantile law in the country this provides the rules and regulations for entering into valid business transactions.
27.	BSC IT Hon's	<ol style="list-style-type: none"> 1. Demonstrate an advanced knowledge of the Word Processing package, MS Office and a knowledge of how to design & create effective and structured documents like technical reports, letters, brochures, etc., 2. Demonstrate the skills in the appropriate use of various features of the spread sheet package MS Excel and also to create useful spreadsheet applications like tabulated statements, balance sheets, statistical charts, business statements, etc. 3. Ability to solve problems using Counting techniques, Permutation and Combination, Recursion and generating functions. 4. To broaden their outlook and sensibility and acquaint them with cultural diversity and divergence in perspectives. 5. Understand the difference between open source software and commercial software. 6. Learn the concepts of parallel processing, pipelining and interprocessor communication 7. Analyze and compute impact of various risks involved in software development. 8. Model an application's data requirements using conceptual modelling tools like ER diagrams and design database schemas based on the conceptual model. 9. Students will understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.

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