

# POs, PSOs, COs - 2020-2021

## Program Outcomes: Faculty of Science

A student should have the following skills after graduating from Faculty of Science -

- Acquire knowledge of facts and numbers in pure science areas such as Physics, Chemistry, Botany, Zoology, Mathematics, and others.
- Basic concepts, fundamental principles, and scientific theories relating to numerous scientific occurrences and their relevance in everyday life are understood.
- Acquire expertise in the use of scientific instruments, as well as the planning and execution of laboratory experiments.
- The ability to observe and make logical conclusions from scientific experiments.
- Critical and systematic analysis of scientific facts, as well as the ability to form impartial judgments.
- Ability to think creatively (both divergent and convergent) in order to provide fresh ideas for explaining facts and figures or finding new solutions to issues.
- Realize how advances in one science field aid in the advancement of others, and vice versa, and how an interdisciplinary approach aids in the development of better solutions and new ideas for long-term sustainability.
- Scientific worldview developed not only in science disciplines but in all parts of life.
- Recognize that understanding of subjects from other faculties, such as Humanities, Social Sciences, can have significant and positive impact on the development of new scientific theories and innovations.
- Ethical, moral, and social principles instilled in personal and social life, resulting in a highly cultured and civilised mentality.
- Develop diverse communication skills such as reading, listening, speaking, and so on, which will aid in the clear and effective expression of ideas and viewpoints.
- Realize that learning is a lifetime quest that, when combined with unwavering efforts, and optimistic attitude, and other important attributes, leads to a successful life.

## **BA PROGRAMME OUT COMES**

The BA Course Programme which is a Combination of many Subjects like Political Science , Economics , History , Public Administration , Sociology , Mass Communication and Journalism , Psychology etc is being offered under the Umbrella of Social Sciences .The following are BA Programme Outcomes which are common to all the Social Sciences .

- The Students develop Socio, Political ,Historic and Economic Consciousness and will be better able to appreciate different Civilizations and Cultures .
- The BA Programme enables the student to acquire the knowledge to appear for Competitive Examinations or choose the Post Graduate Programme of their choice.
- As a Student of BA, they will understand the basic functioning if the Government with an practical out look
- The Students by undertaking Three years in-depth study will be in a position to analyze as well as offer different solutions to the burning issues of the Country.
- Finally a student completing the Three year Course will be able to judge the realities between the theoretical and practical applicability of their learning experience throughout their life.

## **DEPARTMENT OF COMMERCE**

- After graduating in B.Com Computer Applications students will be equipped with the following outcomes–
- Understand the role of business and its impact on society
- Understand the conceptual knowledge of accounting and acquires skills of maintaining accounts
- Acquire entrepreneurial ,legal and managerial skills
- Solve critical problems and lead the groups
- Develop the skills and techniques of communication to be successful in their career

## **PROGRAM OUTCOMES**

### **DEPARTMENT OF PHYSICS**

- PO1: Gain a thorough understanding of the subject.
- PO2: Lay the groundwork for future learning.
- PO3: Learn the fundamentals of research.
- PO4: Instill good moral and ethical ideals in the student.
- PO5: Recognize your societal and environmental responsibility.
- PO6: Develop communication and career skills.
- PO7: Acquire the ability to tolerate a wider range of ideas and points of view.
- PO8: Empower the students to meet the demands of a changing universe.

### **DEPARTMENT OF MATHEMATICS**

- Providing pupils with the opportunity to acquire a good attitude toward mathematics as a fascinating and worthwhile subject of study.
- A learner should have a relational comprehension of mathematical concepts and structures, as well as the ability to follow patterns in mathematical reasoning.
- Ability to assess an issue, identify and specify the computational requirements that might be needed to solve it.
- Various courses such as group theory, ring theory, field theory, metric spaces, and number theory are introduced.
- Enhancing students' entire growth and equipping them with the mathematical modelling ability, problem-solving skills, creative talent, and communication capacity required for a variety of jobs.

## **B.Sc(BOTANY) PROGRAMME OUTCOME**

Upon completion the B.Sc. with Botany combination, the students will be able to

- Describe plant biology at genetic, molecular, physiological and organismal levels to integrate plant functionalities in a hierarchical manner from individual cells to biosphere.
- A Scientific attitude to make students create open minded and curiosity.
- Apply the knowledge of basic science, life sciences and fundamental process of plant to study and analyse plant form
- Discuss evolution as a foundation of all biological systems and integrate evolutionary biology to describe patterns of plant diversity and ecological interaction.
- Synthesize and apply knowledge to better understand and manage plant based systems.
- Discuss natural and managed ecosystems at local, regional and global levels and evaluate their effects on environmental sustainability and human health and well being.
- Demonstrate an awareness of the ethical principles and global consequences associated with past, present and future advances in plant science.
- Communicate information about the breadth of issues in plant science to diverse audiences in oral and written formats.
- Develop skills in practical work experiments, equipments and laboratory use along with collection and interpretation of biological materials and data.

DEPARTMENT OF ZOOLOGY-2021-2022

### **Zoology Program Outcomes:**

1. PO1 - Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms
2. PO2 – Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment
3. PO3 – Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
4. PO4 – Understands the complex evolutionary processes and behaviour of animals
5. PO5 – Correlates the physiological processes of animals and relationship of organ systems
6. PO6 – Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species
7. PO7 – Gain knowledge of Agro based Small Scale industries like sericulture, fish farming, butterfly farming and vermicomposting preparation.
8. PO8 – Understands about various concepts of genetics and its importance in human health
9. PO9 - Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties
10. PO10 – Apply the knowledge and understanding of Zoology to one’s own life and work
11. PO11 – Develops empathy and love towards the animals

## **DEPARTMENT OF CHEMISTRY PROGRAMME OUTCOME – B.Sc**

- Bachelor of Science offers theoretical and practical knowledge about various subject areas.
- This course offers the basics of science for coherent understanding of the academic field to pursue multidisciplinary and interdisciplinary science careers in future.
- This subject area covers Life science and Physical science subjects.
- This program able to plan and execute experiments or investigations, analyse and interpret data information collected using appropriate methods.
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- This program allows the student to think critically, follow innovations and development in science and technology.

### ***Programme outcomes***

#### **DEPARTMENT OF DEPARTMENT MICROBIOLOGY**

In I Semester History of Microbiology, Microscopy, Sterilization, Bacterial cell structure and characterization of microorganisms were discussed along with Practicals.

In II Semester Biochemistry, Aspects of Biomolecules. pH, Buffer, Biocatalysis and Microbial Metabolism of Microorganisms – Microbial Nutrition and Microbial Growth and various microbiological techniques were provided. III Semester deals with Virology and Immunology with Practicals. IV Semester consists of Food & Agricultural Microbiology with Practicals. In V Semester Medical Microbiology is mandatory/ core and among the 2 Electives Molecular biology and Microbial Genetics & rDNA technology is chosen along with the Practicals.

In VI Semester Pharmaceutical Microbiology is mandatory/ core with practicals where as among the 2 Electives Industrial microbiology and Fermentation technology has to be opted by students. There is a mandatory individual Research project in VI Semester.

The course is reasoning and application based, making the students eligible for higher studies, jobs in various sectors and Entrepreneurship abilities.

With the individual Research projects, Research orientation will be improved which is reflected in the form of papers and conference presentations.

Applied papers are advanced, making the students updated in the field. More number of practicals are there in the course making the students well versed with the subject.

#### **DEPARTMENT OF COMPUTER SCIENCE&APPLICATIONS**

**After completion of B.Sc. in Computer Science, B.Sc in Computer Applications, B.Com in Computer Applications and B.A in computer Applications.**

**Program Outcomes(POs)** Generating students with overall skill ability catering wide career opportunities globally and also meeting the requirements of industries

- Serve as the System Administrators with thorough knowledge of DBMS.
- Serve as the IT Officers in Banks and cooperatives societies.
- Work as DTP Operator in small-scale industries.
- Serve as the Web Designers with latest web development technologies.
- Serve as the Computer Engineers with enhanced knowledge of computers and its building blocks.
- Improve their computer literacy, basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.
- Use the Systems Analysis Design paradigm to critically analyze a problem.
- Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties.
- Get Employment in IT fields, Software, Banks, MNC companies, BPOs and KPOs.
- Lay the groundwork for future learning.
- Learn the fundamentals of research.
- Instill good moral and ethical ideals in yourself.
- Recognize your societal and environmental responsibility.
- Develop communication and career skills.
- Acquire the ability to tolerate a wide range of ideas and points of view.
- Empower yourself to meet the demands of a changing universe.

#### **Department of Economics**

- **Program outcomes**

- The student who completes BA will be able –
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- 1. To assess, understand and analyse the concepts, techniques of economics and use the economic behaviour in practice.
- 2. To face and understand the real world economic issues facing the country in particular and the world in general.
- 3. To ascertain facts and factors which lead to fluctuations in the economy and to come out with certain methodologies to overcome it.
- 4. To use certain empirical methods to check how far the theories could be used to solve the present day economic problems.
- 5. To develop the social and economic consciousness and move towards an egalitarian society.

## **PROGRAM SPECIFIC OUT COMES**

### **Department of Physics**

#### Specific Program Outcomes

- Understand the principles of physics, matter characteristics, and electrodynamics, as well as the basic notions of scientific process.
- Understanding the theoretical foundations of quantum mechanics, relativistic physics, nuclear physics, optics, spectroscopy, solid state physics, astrophysics, statistical physics, photonics, and thermodynamics.
- Understand and apply electronic ideas in the design of various analogue and digital circuits.
- Understand the fundamentals of computer programming and numerical analysis.
- Use laboratory experiments to test and apply theoretical principles.
- To learn the fundamental laws of physics and to investigate the fundamental principles of physics
- To gain a better understanding of the principles and implications of numerous physical processes.
- To conduct experiments in order to gain a better understanding of the principles and concepts of physics.

### **Department of Mathematics**

#### **Program Specific Outcome**

- Consider things critically.
- Recognize when information is required and be able to locate, evaluate, and effectively apply that information to the topic or situation at hand.
- In a rational manner, formulate and develop mathematical arguments.
- Obtain advanced knowledge and insight in advanced areas of mathematics and statistics, which the student choose from the available courses.
- Understand, construct, and use quantitative models from social science, business, and other fields.

## Department of Zoology

1. PSO1- Understand the nature and basic concepts Zoology by studying various animals from primitive to highly evolved forms and its complexity
2. PSO2-Analyze the Inter- relationships among various species of flora, fauna and microbes
- 3.PSO3- 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.
4. PSO4- To foster curiosity in the students for Zoology & understand potential of various branches of Zoology.
5. PSO5-To equip students with laboratory skills as well as field based studies to become an successful enterpreneur
6. PSO6-Gains knowledge about research methodologies, effective communication and skills of problem solving methods
7. PSO7-Contributes the knowledge for Nation building.
8. PSO8.-To inculcate knowledge and make successful career in zoology.

### CHEMISTRY PROGRAM SPECIFIC OUTCOME

#### Department of Chemistry

BZC, MZC, MPC

- To impart critical knowledge of chemistry and its applications in all aspects namely Inorganic, Organic, Physical, General, Medicinal and Industrial chemistry.
- To skill up the students for various laboratory techniques such as qualitative, quantitative and instrumental analysis of some organic and inorganic compounds.

### Program Specific Outcomes (PSOs)

#### Department of Microbiology

The overall outcome of graduates specific to B.Sc. Microbiology programme at GDCWHussainialam can be summarized as:

**PSO1 Microbiology skills:** The ability to understand the basic concepts related to the relevant fields of microbiology which will enable them to analyse and develop solutions to microbiology related problems.

**PSO2 Microbiology related employability skills:** The ability to use the acquired hands-on skills in microbiology, molecular identification, immunodiagnosics, medical microbiology and screening for useful biomolecules to implement, validate and interpret data in protocols within employment areas



**PSO3 Successful Career and Entrepreneurship:** The ability to use the acquired hands-on skills in microbiology, molecular identification, immunodiagnosics, medical microbiology and screening for useful biomolecules to implement, validate and interpret data in protocols within employment areas. The ability to gainfully become an entrepreneur by using microorganisms to produce biofertilizers, mushrooms and pharmaceutically important biomolecules as well as using practical hands-on training to become employed in diagnostic, industrial, pharmaceutical, food and research and development laboratories.

**PSO4 Societal responsibility:** The ability to learn and implement environmentally safe and sustainable practices by adhering to good microbiological practices, upholding ethical codes and gainful employability.

**PSO5 Life-long learning:** The ability to learn, assimilate and update by using MOOC platforms and various digital platforms and knowledge resources as a continuous process of life-long learning and knowledge.

### **Program Specific Outcomes (PSOs)** **Department of Computer Science and Applications**

- Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties.
- Apply fundamental principles and methods of Computer Science to a wide range of applications.
- Prepare for or continue professional development.
- Design, correctly implement and document solutions to significant computational problems.
- Understanding the concepts of Computer application operations.
- Apply the current techniques, skills, and tools necessary for computing practices.
- Understanding the fundamentals of computer programming and numerical analysis.
- To learn and apply a wide range of problem-solving skills, both analytical and technical.
- To encourage students to pursue postgraduate studies at reputable universities.  
Ability to design, implement
- domain knowledge for computer programming.

### **DEPARTMENT OF POLITICAL SCIENCE**

**PSO1:-** The Students can understand the basic concepts Theories and institutions of political science ,nature of state ,rights and duties, functions of various political organisation and performance of the different organs of the state and Govt in the administration of the country

**.PSO2:-**The Students can understand and Analyse the basics of Indian Constitution and can get awareness about the ways and means to protect their Fundamental Rights and simultaneously to perform their Fundamental Duties. The Students can get first hand

information of the functions of different types of Govts , different Political parties and Centre State Relations.

**PSO3:-** The Students in this programme can understand the Ancient Indian Political Thought and views of Different Ancient Indian Philosophers like Kautilya , Manu , Buddha, Gandhi,Nehru, Ambedkar and this can be compared with the Western Countries Philosophers like Mill, Hobbes, Locke ,Rousseau ,Plato,Aristotle , Machiavelli ,Hegel and Gramsci.

**PSO4:-**This Programme helps in getting the knowledge of the changing nature Scope and Significance of International Relations from the First world war, Second world war to the Cold War. The other aspects of this paper are domination of Superpower ,functions of the World Bank , WTO, Globalisation. The functions and role of UNO , EU , ASEAN and SAARC, Threats to international security like Arms race , Terrorism ,Environment , Violation of Human Rights, and finally the determinants of the Foreign Policy.

### **Department of Economics**

1. To understand the behaviour of the economy in which he lives.
2. To understand the different policies of the government and to predict their efficacy.
2. To be able to calculate the different concepts like inflation, unemployment, poverty with the use of certain statistical methods.
4. To accurately understand the working of the economy with an insight into different sectors of the economy.
5. To contribute towards nation building.

### **DEPARTMENT OF COMMERCE**

	<b>Programme Specific Outcomes</b>
PSO1	To give life skill to students from basic fundamentals in computer to Advanced computer programming languages like C++, RDBMS, and Web Technologies
PSO2	To motivate the students to join CA, CS, ICWA and other professional courses
PSO3	To develop subject skills in Business Economics, Advanced Accounting, Business Statistics, Cost, Accounts, Income tax, Management, Accounting Theory and practice of GST, Multi Media Systems, Computerized Accounting with soft skills in Tally, ERP and, MIS.

PSO4	Development of mind towards New Career Opportunities
PSO5	To set their goals and develop new business ideas and create Self Employability skills

## **COURSE OUTCOMES**

### **DEPARTMENT OF PHYSICS**

#### **At the completion of B. Sc. in Physics students are able to:**

- Demonstrate a rigorous understanding of the core theories & principles of physics, which includes mechanics, electromagnetism, thermodynamics, & quantum mechanics.
- Learn the Concepts as Quantum Mechanics, Relativity, introduced at degree level in order to understand nature at atomic levels.
- Provide knowledge about material properties and its application for developing technology to ease the problems related to the society.
- Understand the set of physical laws, describing the motion of bodies, under the influence of system of forces.
- Understand the relationship between particles & atom, as well as their creation & decay.
- Relate the structure of atoms & subatomic particles
- Understand physical properties of molecule the chemical bonds between atom as well as molecular dynamics.
- Analyze the applications of mathematics to the problems in physics & develop suitable mathematical method for such application & for formulation of physical theories.
- Learn the structure of solid materials & their different physical properties along with metallurgy, cryogenics, electronics, & material science.

- Understand the fundamental theory of nature at small scale & levels of atom & sub-atomic particles.

## **DEPARTMENT OF MATHEMATICS**

**At the completion of B. Sc. in Mathematics the students are able to:**

- Learn to solve improper integrals.
- Make use of linear equations for solving any differential equations
- Understand various problems related with planar graphs.
- Understand the Concepts of Matrices and linear equations.
- Learn properties of inverse Laplace transforms

## **DEPARTMENT OF BOTANY**

**Paper I – Microbial diversity of lower plants and Bryophytes, Pteridophytes.**

- To have a basic understanding of characters of bacteria, viruses, mycoplasma.
- To have basic knowledge in ecological and economic importance of microbes, algae and fungi.
- To have an understanding of lifecycles of lower organisms.
- The students will be able to understand the structure and reproduction of certain selected algae, fungi and bryophytes
- To learn about the importance of the plant diversity.
- To learn the economic values of this lower group of plant community.

**Paper II – Gymnosperms, Plant taxonomy of Angiosperms and Ecology**

- To have basic knowledge of characters and life cycles of Bryophytes and Tracheophytes.
- To learn few representatives of fossil forms & reconstruct entire fossil plant.
- To assign extinct plants to particular taxonomic groups and to understand evolution of extinct plants.
- the students will understand the relationship of complementary metabolic pathways such as photosynthesis in energy acquisition
- The Students will understand various Angiosperm plant habits.
- Learn about vegetative and reproductive structural features of Angiosperms.

- Comprehend the concepts of plant taxonomy and classification of Angiosperms.
- Learn about various Angiosperm families and its economic value.
- To understand structural adaptations in plants growing in different environments.

### **Paper – III – Plant anatomy and Embryology**

- The students will learn about the basic concepts in anatomy.
- To understand the various components of stem and wood during its secondary growth.
- be enlightened about the mechanism of pollination and basic structure of the embryo
- To impart and insight in to the internal structure and reproduction of angiosperms.
- To understand structural adaptations in plants growing in different environments.

### **Paper – IV – Cell Biology, Genetics and Plant Physiology**

- To understand the morphology and development of reproductive parts and to get an insight into the fruit and seed development.
- The students will be able to learn about the basics of cell and its inclusions understand the basic concepts of mendelian genetics, its variations and applications familiarize with the various concepts of evolution
- The students will understand and appreciate the plant world we depend on know about the basic principles of plant function, metabolism, secondary products, cell physiology & principles of growth & development

### **Paper – V – Cell Biology and Genetics**

- To obtain knowledge of structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes and organelles.
- To understand the cellular components underlying cell division.
- To learn the basic principles of inheritance at the molecular, cellular and organism levels.
- To understand causal relationships between molecular/cell level phenomena, modern genetics and organism level patterns of heredity-classical genetics.
- The students will be able to learn about the basics of cell and its inclusions to learn the functioning of the cell at the molecular level.
- understand the basic concepts of mendelian genetics, its variations and applications
- The students will be able to acquire knowledge about the nature and function of genes and processes of inheritance as they influence the characteristics of populations and species.

- The students will understand the concepts of microbial and human genetics and genetic mapping.

#### **Paper – VI – Ecology and biodiversity**

- To understand regulation mechanisms of physiological and metabolic processes as well as their dependence on endogenous and environmental signals.
- Understand the importance of ecology and conservation
- Understand the ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation
- Understand the impact of the plant diversity in social and environmental contexts, and demonstrate the knowledge of, and need for sustainable development

#### **Paper – VII- Plant Physiology**

- Understand the interactions of organisms and their environments and the consequences of these interactions for population, community and ecosystem dynamics.
- To obtain knowledge about physiological and biochemical processes in plants - cell, tissues, organ and whole plant level.
- To describe how the biogeochemistry, energy flow or biodiversity of ecosystems respond to climate change or another disturbance.
- To use ecological principles to explain the consequences of human activity.
- To apply a mathematical or a conceptual model to population or community dynamics.
- The students will understand and appreciate the plant world
- We depend on know about the basic principles of plant function, metabolism, secondary products, cell physiology & principles of growth & development  
Know about the role of Phytochrome in flowering seeds.

#### **Paper – VIII – Tissue culture and Biotechnology**

- To evaluate how plants and plant products impact the world economy, with emphasis on those plants and plant products that substantially impact the economy.
- To describe why it is vital to save plant genetic diversity.
- To understand subject specific knowledge, as well as the critical, analytical and flexible approach to problem solving in the field of biotechnology and tissue culture.
- The students will understand the basic concepts of molecular biology, genetic engineering and plant tissue culture and its applications.
- The students will learn about the basic concept, technical skills, hands-on experience and training in plant tissue culture and molecular biology.
- Understand the micropropagation methods and hands on experience to students. learn about the basic concept of somatic embryogenesis and production of artificial seeds

## **Skill Enhancement Course**

### **SEC-1: Nursery and Gardening**

- The students will acquire sufficient academic and practical experiences and become self employed in the nursery ventures.
- understand the various methods of vegetative propagation be empowered with entrepreneurial skills through the production and disease management
- The students will learn about how to prepare suitable soil media for potting up, seedling and cutting.
- be able to impart the skills like germinating seed and transplant seedlings and cutting into pots.
- understand the entrepreneurial skills in nursery technology

### **SEC-II : Mushroom Culture Technology**

#### **Course Outcome**

- India is one of the largest agricultural production and dependent countries, majority of the students parents are agricultural background with this course Students will be familiar about the new agricultural techniques, modern approaches in different food products like Mushrooms production etc..
- India is highly populated country; it has huge demand of food production, supply of nutrients proteins to all.
- Students will know the overall knowledge about Mushroom Production,
- Students will learn the importance, usages, production mechanisms, different techniques involved in mushroom production, Students 'will acquire the knowledge and skills in Mushroom production
- Students will be known the current Mushroom research, food, medicinal value, importance.
- Students can get idea to prepare different mushroom products, their storage practices
- Students will become mushroom producers, entrepreneur, get self employment with this course.

**(Course  
outcomes)**

**URDU**

NameoftheDepartment:	Urdu
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PO1	Students are familiarized with Poems and Gazals of Quli Qutub Shah, Vali Daccni, Siraj, Mir Taqi Mir, Nazeer Akberabdi, Akber Alhabadi, Zafar Ali Khan, and Alama Iqbal.
PO2	To acquire knowledge about Masnavi, Qaseeda, Dastan, Novel & Inshaya.
PO3	To know and acquire the knowledge about Daram, Afsana, Khaka, Biogaphy.
PO4	To about knowledge about Rubayyat, Letters, Essay, Satire and Humor and Reportage.

### **Course Out Comes Department Of Arabic**

#### Semester 1

CO 1: Understand and interpret the values of Holy Quran In selected chapters (Suratul Insheraah, and Surat ut Teen).

CO 2: Improve Effective communication, learn Hygiene and Grooming.

CO 3: Learn to appreciate the aesthetic poetry of Arabic language.

CO 4: Acquire vocabulary and conversational communication skills.

CO 5: Understand the characteristics of Arabic Language and Poets & Poetry in Pre – Islamic Era.

#### Semester 2

CO 1: understand the value of Shabe Qadr and the day of Salvation with the text of holy Quran.

CO 2: Understand the Rich heritage of Hyderabad and contribution of the nizam meer Osman Ali Khan.

CO 3: Emphasize the importance of girl and nation by learning the poems Al- Bint and An Nasheed Al Watani.

CO 4: Able to understand Grammar by learning the Types of Sentences and Phrases (Al Murakkab Al Mufeed and Al Murakkab an Naquis).

CO 5: Understand the compilation of the Holy Quran and poetry in Islamic Era.

#### Semester 3

CO 1: Understant and Interpret the History of Holy Quran and Hadeeth

CO 2: Acquire Moral value and of Human Equality and develop their personality by learning about the life of Moulana Abul kalam Azad.

CO 3: Appreciate the classical poetry Al Ilm by Hazrath Ali (R.A).

CO 4: Correct the common Errors in communication by applying advance grammar (Huroof e Jazima and Huruf e Naasiba).

CO 5: Drag the information about the Arabic Language and Literature during Umayyad Dynasty.

#### Semester 4



CO 1: Appreciate and learn the life and Ideologies of Prophet Mohammed along with the achievements of famous Sahabiyaat.

CO 2: Explore the monuments of Telangana, and learn about the Personality of Nightingale of India.

CO 3: learn soft skills by learning the aesthetic poetries like Hayaatee and AnNajm.

CO 4: Improve the communication skills in Arabic by applying Advance Grammar, Afaal e naaqesa and HurufMushabbaBilFel.

CO 5: Analyze the Contribution of Arabic Language and Literature to various fields of Sciences during Abbasids Era.

### **DepartmentofEnglishLearningOutcomes**

**NameoftheText: EnglishmadeeasyCourse: English paper I, IIBA/B.COM/ BSC**

*Attheend of thecourse, thestudentwill be able*

**Co1-**

ToenhancelanguagethroughlearnercentricmethodsUnderstandandappreciatet heworkof the greatBritish and Americanwriters

**Co2**–Identifythe rootwordsand prefixesand suffixesand enrichtheirvocabulary

**Co3**- TofamiliarizewithvariousaspectsofTelangana.

**Co4**–Developreading,writing,andanalyticalandcomputerskills.

**Co5**–Channelizeenergythrough softskillsand valueorientation.

**Course – English paper III & IVNameofthetext:Englishin use**

**Co1**–Understandandappreciatethevariousgenreslikeshortfiction,poetry,drama, etc

**Co2**–TocarryoutLSRW Skills.

**Co3**–To developtheir critical thinkingskills

**Co4**–TodifferentiatebetweenAmerican&BritishVocabulary

**Co5**–To focusonuse of English ratherthanusageofEnglish.

**Co6**–Toknowthe practical,emotional,intellectualand creativeaspectsoflanguage.

### **COURSE OUTCOMES (CO)**







Year	Semester	Paper		Title of the paper	COURSE OUTCOMES	
I	I	Paper I	DSC-I Theory	Animal Diversity-Invertebrates	CO1: To understand the Animal diversity around us. CO2: The student will be able to understand classify and identify the diversity of animals CO3: To understand the terminology needed in classification and their detailed study. CO4: To understand the differences and similarities in the various aspects of Invertebrate phylums CO5: The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life	
			DSC-I Practical	Animal Diversity-Invertebrates	CO1: Gain knowledge to identify various animals based on morphological features. CO2: To know the internal anatomy of animals through dissections(Virtual)	
	II	Paper II	DSC-II Theory	Animal Diversity-Vertebrates	CO1 Imparts conceptual knowledge of vertebrates, their adaptations and associations in relation to their environment CO2: Classify phylum Protochordates to Mammalia CO3: Complex Vertebrate interactions CO4: Explain various modifications in these groups and the need of the modification for survival. CO5: Describe the morphology, habit and habitat, systematic position and various systems in Vertebrates	
			DSC-II Practical	Animal Diversity-Vertebrates	CO1: Gain knowledge to identify various animals based on morphological features. CO2: Gain knowledge on Histology, Osteology, and computer based techniques in animal dissections	
	II	III	Paper III	DSC-III Theory	Animal Physiology and Behaviour	CO1: Explain and recognize the physiological structure and functions of various organs CO2: Apply anatomical knowledge in predicting the physiological consequences CO3: Describes physiological activity of organ system CO4: Distinguishes the types and functions of endocrine glands
				DSC-III Practical	Animal Physiology and Behaviour	CO2: Apply basic principles of hematological and cell studies

					<p>CO3: Analyze the principles and uses of bioinstrumentation in medical laboratory</p> <p>CO4: Evaluate the importance of blood cell counts</p>
			SEC-1	Sericulture	<p>CO1: Get knowledge about the mulberry and non-mulberry silkworms.</p> <p>CO2: Understand the various silkworm rearing techniques</p> <p>CO3: Apply knowledge on control measures of silkworm diseases</p> <p>CO4: Analyze silkworm breeding and grainage techniques</p> <p>CO5: Understand Moriculture , the cultivation of mulberry, pests, diseases and control measures</p> <p>CO6: Apply knowledge on processing of cocoons and different methods of silk reeling</p> <p>CO7:Analyze the importance of sericulture in entrepreneurship development</p>
				Apiculture	<p>CO1: Get knowledge and explain the honey bee species and role in agriculture</p> <p>CO2: Describe biology and structural adaptations of honey bees</p> <p>CO3: Develop knowledge about honey bee pest and diseases and their control measure.</p> <p>CO4: Educate the students for the role of honey bees in pollination</p> <p>CO5: Get knowledge about basic beekeeping techniques</p> <p>CO6: Describe parts of bee hive and beekeeping equipments</p> <p>CO7: Develop knowledge about honey harvest and honey processing methods.</p>
			SEC-2	Public Health and Hygiene	<p>CO1:Gain some knowledge and understanding of the wider determinants of health and ill-health</p> <p>CO2:Understanding of the roles of people and agencies who undertake work in the promotion of public</p> <p>CO3:Describe interconnected relationships among physical, social, and environmental aspects of health and disease.</p> <p>CO4: Appreciate the role of multiple determinants of health across diverse populations and health issues.</p> <p>CO5: Identify social injustices and propose strategies for change.</p>

					<p>CO6: Understand and communicate using public health terminology, including epidemiological measures.</p> <p>CO7: Interpret quantitative and qualitative information about population health.</p>
				Medical Diagnostics	<p>CO1: Fundamental concepts and operation of medical diagnostic equipment presented throughout the course.</p> <p>CO2: The students will be familiar with the various types of biomedical diagnostic instruments and understand the functioning of them.</p> <p>CO3: Describe the measurement techniques used to determine the vital parameters of diagnostic importance.</p> <p>CO4: To Explain building blocks of circuit involved in each equipment &amp; systems</p> <p>CO5: Understand the characteristics of different diagnostic systems includes ECG and Patient monitoring Equipment,</p> <p>CO6: Clinical Laboratory equipment, Endoscopy System, Ophthalmic equipment, and Hearing analysis and diagnosis equipment.</p>
IV	Paper IV	Core-IV Theory	Cell Biology, Genetics and Developmental Biology		<p>CO1: Knowledge on better understanding of how all living things live.</p> <p>CO2: Explain the role of compartmentalization and signalling in cellular biology</p> <p>CO3: Evaluate and apply knowledge of modern techniques in cellular biology and Genetics.</p> <p>CO4: Demonstrate Knowledge and practical skills of molecular genetic analysis of genetic diseases</p> <p>CO5: Updating current Knowledge regarding genetics, genomics, genomic medicine etc.</p> <p>CO6: Provides evidence for evolution as embryo formation in widely-divergent groups of organisms tends to be conserved.</p>
		Core-IV Practical	Cell Biology, Genetics and Developmental Biology		<p>CO1: Demonstrate the knowledge of common and advanced laboratory practices in cell and molecular biology.</p> <p>CO2: Exhibit clear and concise communication of scientific data.</p> <p>CO3: Engage in review of scientific literature in the areas of Genetics and</p>

				biomedical sciences.
			SEC-3	<p>Vermiculture</p> <p>CO1: Get knowledge on the significance of earthworms.  CO2: Understand the importance of waste degradation by eco-friendly method.  CO: Apply the significance of Vermicomposting methods.  CO4:Apply knowledge on commercialization of Vermiproducts</p>
				<p>Poultry and Animal Husbandry</p> <p>COI: Get knowledge about the importance of poultry farming  CO2: Understand the types of poultry breeding  CO3: Apply the knowledge in types of incubators for poultry breeding  CO4: Evaluate the importance of poultry marketing</p>
				<p>Vector Biology</p> <p>CO1:Awareness on Protozoan,Helminth parasites: basic knowledge and current challenges  CO:Learn the Nature of symbiosis, parasitism and parasites  CO3:Knowing the Ecological and evolutionary roles of parasites</p>
			SEC-4	<p>Aquarium Fish Keeping</p> <p>CO1: Get knowledge about the commercial ornamental fish production of in India  CO2: Understand the practices of ornamental fish culture and its management to export worldwide  CO3: Apply practical knowledge into fish production and marketing to become successful entrepreneur  CO4: Analyze students acquired technical knowledge which is helpful to begin an entrepreneurship in the field of ornamental Fisheries</p>
				<p>Biomaterials from Animals sources</p> <p>CO1:Understand commonly used different classes of biomaterials, its chemical structure, properties and morphology.  CO2:Explain surface modification to tailor biomaterials for desired biological response.  CO3: Understand the interaction between biomaterial and tissue for short term and long term implantations, distinguish between reactions in blood and in tissue. .  CO4:Explain biomedical applications for tissue regeneration, drug delivery, biosensors and other biomedical</p>



					applications
				Aquaculture	<p>CO1: Identify the fish diseases and the causative organisms.</p> <p>CO2: Mention the various composite fish culture with significance of each type.</p> <p>CO3: Describe the methods of freshwater prawn culture and its management.</p> <p>CO4: Explain the methods of pearl culture and pearl harvesting.</p> <p>CO5: Illustrate the preparation and management of fish culture ponds.</p> <p>CO6: Demonstrate the methods of packaging and transport of fish and brood fish.</p> <p>CO7: Illustrate techniques of fish harvesting, preservation &amp; processing.</p> <p>CO8: Compare the techniques used in fishery development.</p>
III	V	Paper V	DSE-I Theory	Immunology and Animal Biotechnology	<p>CO1: Identify the major cellular and tissue components which comprise the innate and adaptive immune system.</p> <p>CO2: Understand how are immune responses by CD4 and CD8 T cells, and B cells, initiated and regulated.</p> <p>CO3: Understand how the immune system distinguishes self from non-self.</p> <p>CO4: Develop future course of their career development in higher education and research with a sound base.</p> <p>CO5: Apply their knowledge with problem solving approach to recommend strategies of genetic engineering for possible applications in Biotechnology and allied industry.</p> <p>CO6: Understand the role of microbes, Biofertilizers and Biopesticides in increasing the crop yield</p> <p>CO7: Get knowledge on application of Biotechnology on human and animal health care</p>
			Practical	Immunology and Animal Biotechnology	<p>CO1: Students will understand the structure of animal genes and genomes.</p> <p>CO2. Students will understand how genes are expressed and what regulatory mechanisms contribute to control of gene expression.</p> <p>CO3. Students will understand basic principles and techniques in genetic manipulation and genetic engineering.</p> <p>CO4. Students will understand gene</p>

				transfer technologies for animals and animal cell lines. CO5. Students will understand the techniques and problems both technical and ethical in animal cloning	
			DSC-I TH & PR	Physiological Chemistry and Endocrinology	CO1: Knowledge of basic terms in biochemistry. CO2: The student will be able to explain the structure, functions and reactions of the various biomolecules. CO3: Correlate the changes in the levels of these biomolecules with the diseases in human CO4: Calculate pH of buffer solution. CO5: Attain the knowledge of macromolecule such as carbohydrates, protein and fat, their types and significance. CO6: Describing the enzymes, mechanism of enzyme action and factors affecting the enzyme activity CO7: Understanding the types and importance of vitamins. CO4: Explain the anatomy of various systems. CO5: Illustrate the reproductive cycles with hormonal control.
			DSC-I TH & PR	Laboratory Animals Maintenance and applications	CO1: describe key principles of legislation regarding the use of animals in science, CO2: Identify ethical and welfare issues in relation to the use of animals in scientific procedures, including basic principles of the 3R's(Replacement, Reduction, Refinement), CO3:Discuss principles and concepts of experimental design of studies using laboratory animals, CO4: Recognize good scientific practice in animal research.
VI	Paper VI	DSE-II Theory	Ecology, Zoogeography and Evolution	CO1: Understand the basic concepts of ecology, biogeochemical cycles & Population Ecology: CO2: Understand the Characteristics of Community; Ecological Succession and Major biomes of the world CO3: Understand the process of evolution, Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism, Speciation, Isolation, Variation, Adaptations,	

		Paper VIII			<p>Mimicry, fossils; geological division of earth crust and Continental drift.</p> <p>CO4: Get knowledge about the chronology of animals</p> <p>CO5: Analyze the significance of geological time scale</p>
			DSE-II(B) Theory	Fisheries	<p>CO1: Get knowledge about the commercial production of fishes in India</p> <p>CO2: Understand the practices of fish culture and its management to produce quality fish for human consumption</p> <p>CO3: Apply practical knowledge into fish production and marketing to become successful entrepreneur</p> <p>CO4: Analyze students acquired technical knowledge which is helpful to begin an entrepreneurship in the field of Fisheries</p>
			DSE-II Theory	Limnology	<p>CO1: Enlist the diagnostic features of shrimps.</p> <p>CO2: Explain the types of aquatic habitats.</p> <p>CO3: Discuss the aquatic adaptations of common freshwater forms.</p> <p>CO4: Explain the adaptations in freshwater Turtles and Crocodiles.</p> <p>CO5: Illustrate the physicochemical properties of water.</p> <p>CO6: Demonstrate the effect of pollutants on freshwater bodies</p> <p>CO7: Justify the presence of zooplanktons and aquatics forms in freshwater bodies.</p>
			GE-I	Preventive Medicine	<p>CO1: The objectives of preventive medicine are to prolong life and to reduce disability.</p> <p>CO2: Improvements in the standard of living and in medical treatment and specific measures to reduce the incidence of disease have greatly reduced mortality over the last century.</p> <p>CO3: Learn about the principles of epidemiology</p> <p>CO4: Gain knowledge in concepts of disease control and prevention</p>
	IV		GE-II	Integrated Pest Management	<p>CO1: Get knowledge about the importance of insect pests of agricultural crops and plant diseases transmitted by insect pests.</p> <p>CO2: Understand the biology and nature of damage caused by insect pests and non insect pests in various crops</p> <p>CO3: Study the insect pests of stored grains</p>

					CO4: Apply knowledge on the importance of vectors on human health and their control measures
	V		Project/optional paper	Project	CO1: Use foundational practical knowledge to carry out research in the specified area CO2: Represent interpretations of research data within scientific and technical communities.. CO3: Evaluate the research findings and present them in written and oral. CO4: Develop professional work habits, including those necessary for effective collaboration and cooperation with other students, instructors, and Service. CO5: Write effective scientific and technical communication based on the project CO6: Report research clearly, concisely, logically, and ethically;
				Tools and Techniques in Biology	CO1: Practical Knowledge on Microscopy, liquid, chromatography, distillation techniques and paper chromatography will be attained CO2: Describe Various techniques used in biological sciences CO3: Applications of various types of Microscope. CO4: Describe and use various analytical techniques like centrifugation, spectrophotometry, pH meter, Chromatography, electrophoresis, PCR and ELISA CO5: Use Computational tools in the field of Biology

**DEPARTMENT OF ZOOLOGY**

**DEPARTMENT OF MICROBIOLOGY**

*Course outcomes*

**Paper-I General Microbiology**

**Content:**

History & Development of Microbiology, Microscopy, staining and sterilization techniques, Ultra-structure of cell, Different methods of microbial characterization.

**Scope:**

Students will get basics and importance of Microbiology. Theory & practicals of Microscopy, staining, sterilization, characterization of microbes along with microbial structure will be studied.

**Paper-II Biochemistry & metabolism**

**Content:**

Different biomolecules, pH and buffering, enzymes, bacterial nutrition and growth

**Scope:**

This paper will provide basis to understand microbiology and applications. More techniques are covered which will be helpful in remaining courses. Bacterial nutrition and growth is very important for their useful for growth and control in diseases.

**Paper-III Virology & Immunology**

**Content:**

Nature of viruses, viral classification, cultivation of viruses and Type study of TMV & HIV. In immunology Types of Immunity, immune organs, cells, antibodies and antigen-antibody interactions were discussed

**Scope:**

Basics of virology will help in molecular biology & disease control. Immunology plays an important role in Diagnosis, Prevention and control of diseases.

**Paper-IV Food & Agricultural Microbiology**

**Content:**

First two units covers food microbiology and last two units covers Agricultural Microbiology. Microbial food spoilage, intoxication, poisoning, food production, preservation in food Microbiology. Microbial quality of water, different environmental cycles, plant growth promoting microbes, Biological nitrogen fixation, Biocontrol in agricultural Microbiology were covered.

**Scope:**

Food contamination, food preservation and water quality knowledge will help students to safeguard themselves and work in food industry. Plant growth promoting microorganisms, biocontrol, nitrogen fixing microbes role in favour of environment can be explored.

**CORE V Medical Microbiology**

**Content:**

It contains Diagnostic and pathogenesis of various diseases. Antimicrobial defence and different toxins is covered.

**Scope :**

It provides knowledge of pathogenic microorganisms, their characterization, pathogenesis and control. Student can safeguard himself & society and can work diagnostics and hospitals.

**Elective-I Molecular Biology and Microbial Genetics**

**Content:**

DNA, RNA, Protein structure and synthesis. DNA damage, mutations and repair. Gene transfer methods.

**Scope:**

This paper provides basic information of molecular biology. Understanding of biomolecular synthesis and control will help in further study.

### **Elective-I Molecular Biology and Microbial Genetics**

#### **Content:**

DNA, RNA, Protein structure and synthesis. DNA damage, mutations and repair. Gene transfer methods.

#### **Scope:**

This paper provides basic information of molecular biology. Understanding of biomolecular synthesis and control will help in further study

### **Elective-II r DNA Technology**

#### **Content:**

Covers materials required, procedures and applications of Recombinant DNA technology. Few advanced techniques of r DNA technology are also discussed.

#### **Scope:**

It is the most advanced subject in Microbiology having abroad applications in industrial, medical , agricultural fields. Hence students with this knowledge can work in biotechnology industries with above applications.

### **CORE VI Pharmaceutical Microbiology**

#### **Content:**

Covers basics of microbial control, antimicrobial agents. Antibiotics, microbiological assays and drug resistance.

#### **Scope:**

It provides the knowledge of various methods of disease control. With the knowledge students can work in hospitals, pharmacy and industries.

### **Elective-I: Industrial Microbiology**

#### **Content:**

Explains History, screening, media, Fermentation, assays with examples of industrially important processes.

#### **Scope:**

It makes students self reliance in the industrial application of Microbiology in life and industry. Entrepreneurship can be established with the gained knowledge.

### **Elective-II: Fermentation Technology**

#### **Content:**

It contains modern fermentation techniques with important processes like Bio-fertilizers, Bio-fuels etc.,IPRs were also discussed.

#### **Scope:**

The students obtain the advanced knowledge to work in fermentation industries. The knowledge of IPR's makes students to enable to protect their technologies.

## **DEPARTMENT OF COMPUTER SCIENCE&APPLICATIONS**

### **Course Outcomes (B.Sc in Computer Science and Applications I Year I Sem)**

#### **Course Offered (Programming in C)**

- This course will let students understand the basics of solving a problem using the

computersystem. Develop logics and programming concepts.

- Students can develop the attitude to solve the problems in hand in logicalmanner.
- To able to understand the basic concepts of digital computer, binaryarithmetic.
- To be able to understand the importance of algorithm and flowcharts inprogramming.
- To be able to understand the basic concepts of writing a program in C language: write, compile, and run programs in C language.
- To understand role of constants, variables, identifiers, operators, type conversion and other building blocks of C language. Design, implement, run and debug programs in C.
- Learn use of decision control and array to solve complex problems in C.
- To be able to understand how to use functions, arrays, pointers, preprocessor directives along with fare confidence in file handling.
- Use function and storage classes. Implement pointers and file management in C.

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**DEPARTMENT OF ECONOMICS**

Course name: Micro economic Analysis

After The Completion of the course the students will be able	
CO I	To understand how scarce resources are used in achieving unlimited wants.
CO II	To understand the consumer behaviour and to know how the theories - The Law of Diminishing Marginal Utility, The Law of Equi- Marginal Utility which are part of Cardinal Utility Analysis and Indifference Curve Analysis which is a part of Ordinal Utility Analysis - help the consumers to get equilibrium that is Maximum Satisfaction.
CO III	To know how the theories of Production - The Law of Variable Proportions , Returns to Scale, Cobb-Douglas Production Function, Isoquants help the producers in getting maximisation of revenues and minimisation of losses.
CO IV	To have an idea about different types of costs and revenues and how they behave in different types of markets.
CO V	To have an insight into the practical knowledge of markets and how they behave under different cost and revenue situations.
CO VI	To get an idea of different Pricing Strategies and Profit concepts and also learn about the objectives of different firms.

### Course outcomes

Course name: Macro economic Analysis

CO I	To understand how the economic activity takes place in the economy. How the money and real flows move in a circular form. How the national Income is derived and computed and what problems are faced in its computation.
CO2	To understand how the economy works- how the Income, output and employment are determined. To understand the inter- relationship between consumption function , Multiplier and accelerator and their role in the stability of an economy.
CO3	To differentiate between the concepts of capital and investment and to analyse the different theories of investment and find out their relevance to the present day scenario.
Co4	To explain how money is very important without which the survival of man is very difficult and how the value of man is dependent on certain variables and how it changes over a period of time.
CO5	To determine what factors causes business cycles , Inflation, depression and the solution to obtain to stabilize the economy that is how far the monetary policy and fiscal policy will be effective in controlling inflation and depression.

### Course outcomes

Course name: **INDIAN ECONOMY**

CO 1	To understand why India is still a developing economy- how far the characteristics of these economies are playing a role in it.
CO 2	To differentiate between the sectors of the economy and understand the importance of each sector in the development of Indian economy.
CO 3	To understand the contribution of the Indian agriculture in overall development of the economy, to analyse the changing nature of Indian Agriculture in terms of production and productivity trends and find out the lacunae in Agricultural Finance and Marketing facilities and to suggest the changes in Agricultural Price Policy.
CO 4	To differentiate between small, medium and large industries, to find out the problems being faced by the industrial sector and also to find out why industrial sector is lagging behind services sector and the consequences involved in it .

CO 5	To understand the factors leading to a huge development of services sector and its contribution to the economy.
CO 6	To study why planning commission has been replaced by NITI Aayog and how far NITI AAYOG will go forward and contribute to the economy .
CO 7	The understand how the Economic Reforms – Liberalisation, Privatisation and Globalisation had its repercussions on the economy.

Course outcomes

Course name: **Development Economics.**

CO 1	To differentiate between Economic Growth and Economic Development.
CO 2	To understand the measurement of economic development in terms of PQLI, HDI, GEM.
CO 3	To find out factors determining Economic Development. Relationship between Population and Economic Development. To know how far the theory of Demographic Transition reflects the present scenario.
CO 4	To understand the theories of Economic development Adam Smith , David Ricardo, Karl Max , Schumpeter and theories of under development – Lewis, Rodan, Libestein, Nurkse's and how far these theories are applicable to present situation.

Course outcomes

Course name: **Quantitative Techniques**

CO 1	To get an understanding of basic concepts of techniques of statistics.
CO 2	To get trained in collecting data and different Methods of samples.
CO 3	To understand – The Measures of central tendency and, Measures of dispersion and how to apply them in solving the real situation.
CO 4	To learn how to use scientific empirical methods to arrive at the conclusions

	regarding validity of economic theories.	
CO 5	To get trained in building certain economic models with the help of Regression analysis.	

### HISTORY COURSE OUTCOMES

#### B. AI YEAR SEMESTER I (From earliest time to C700 CE)

- To understand nature and scope and origin of India.
- To analyse geographical features of India
- To compare with procedure of various pre history Paleolithic, Mesolithic and Neolithic ages
- To give information the Indus valley civilization.
- To understand early Vedic & later Vedic periods.
- Give information about the rise and fall of new religious movements in sixth centuries.
- To give information about Mauryan administration and dharma followed by Ashoka.
- To demonstrate Gupta empire administration social and economic conditions and position of women education.
- To understand the Harshavardhana and his achievements.

#### B. AI YEAR SEMESTER II (HISTORY OF INDIA (700 TO 1526 CE))

- Demonstrate the Pallavas, Chalukyas, Cholas administration.
- Give information about Bhakti movement
- To demonstrate the foundations of Delhi Sultanate
- To understand polity administration of Vijayanagara empire
- To demonstrate the Brahmins and their contribution to the Deccan culture.

#### B. AI YEAR SEMESTER III (HISTORY OF INDIA 1526 TO 1857 CE)

- To understand the rise of Mughal empire and region of Shahjahanpore
- To understand the religious policies of Akbar and the fall of Mughal empire
- To understand the rise of Marathas and their administrations
- To understand geographical conditions for Gorakhpur

- To understand advent of Europe
- To understand Carnatic war between France and Britain
- To understand the revolt of 1857
- To understand decline of rural cottage industry

#### B A I I Y E A R S E M I V ( H I S T O R Y O F I N D I A 1 8 5 8 T O 1 9 6 4 C E )

- To understand India under the crown rule and impact of English education
- To understand the importance of administrative, social, religious, economic conditions
- To understand the social reforms and movement
- To understand the growth of nationalism, impact of western culture and awakening of Indians
- To understand growth of extremism, revolutionary movement and worker and peasant movements
- To understand the divide and rule British policy, foundation of Muslim League and Hindu Mahasabha
- To understand the constitution of Indian Republic.

#### B A I I I Y E A R S E M V ( W O R L D H I S T O R Y ( 1 4 5 3 T O 1 8 1 5 C E )

- Students will know about Turks and conquest of Constantinople
- To understand the Italy in fifteenth century and the domination of the Roman Catholic Church
- To understand knowledge about decline of feudalism and emergence of industrialization
- The rule of king and their administration in social, economic and political, religious conditions prevailing in French society

#### B A I I I Y E A R S E M V H I S T O R Y O F T E L A N G A N A F R O M E A R L I E S T T I M E T O 1 7 2 4

- Students will identify various concepts, emergence of Telangana and its pre-historic period
- Rule of Telugu language administration in South Indian Kingdom
- Impact of present day societies ruled by the Sammakasarakkas society and development of tribal society

- Students will acquire knowledge of Deccan Muslim Kingdom

## **PUBLIC ADMINISTRATION**

### **BA I Year Course-1: Introduction to Public Administration**

#### Course outcomes

#### **Course 1; Basics of Public Administration - DSC 1103**

1. To understand the nature and scope of Public Administration.
2. To learn the relationship of Public Administration with other social Sciences. Eg; Law, Political science, Economics, Psychology, Sociology, etc.
3. To comprehend the changing Paradigms of Public Administration.
4. To acquaint with the different behaviour Approaches of Public Administration.
5. To understand how the Ecological and Social Justice Approaches are developed by Social Reforms.

#### **Course II; Development Dynamics and Emerging Trends - DSC203**

1. To understand and differentiate between comparative and Development Administration.
2. To learn Minnow Brooks New Public Administration.
3. To comprehend the Market theories.
4. To learn the Role of Public Services in the Emergence and Development of a state.
5. To understand the present status of P.A in the content of Globalisation.

#### **DSC 303; Union Administration**

1. To understand the forces of Evolution of Social Indian Administration, social economic, cultural and political factors involved in it.
2. To comprehend and analysis the structure process involved in Indian administration.
3. To learn the Central State Administrative relations.

4. To learn about the Constitutions and other National Bodies such as UPSC, EC,C AG,NITI Aayog.

To learn ab

## **Semester IV**

### **DSC 403 : State Administration**

- To learn the connects and disconnects between the structure , purpose , process and results in Indian Administration.
- To comprehend the state administrative mechanisms.
- To understand the need and importance of Administrative Reforms.
- To have an insight into values and ethics in Administration.
- To have an idea about citizens Grievances and its Redressal

## **Semester V**

### **DSC 503 A : Human Resource management**

- To learn the meaning and significance of Human Resource Management.
- To comprehend the nature and structure of Human Resource Management.
- To learn about the capacity building systems and Strategies.
- To get an idea about Interpersonal Skills.
- To understand the changing Paradigms of Resource Management.

## **Semester VI**

### **DSC 603 A : Financial and Material Management.**

- To understand the importance of Financial Management.
  - To learn about Budget and the intricacies involved in its Preparation, Enactment and Execution.
  - To have an idea about Centre-State Financial Relations.
  - To understand the role of Parliamentary Financial Committees in Financial Control Mechanism.
  - To learn deeply about Material Management.
5. out the Public Enterprises in India.

## Course Outcome

### Semester-I

U.G General English CBCS syllabus for degree first year semester-I is designed to ensure that every student should learn English to speak fluently and write accurately as well as to score well in the Internals and University exams.

**Lessons:** To familiarize the students with the four genres: short fiction, prose, poetry and drama as a starting point of contextual language learning.

**Pronunciation:** Identifying consonant and vowel sounds and letters with varied pronunciations so as to enable the students to speak phonetically correct English.

**Grammar:** students will be familiarized with varied parts of speech and punctuation.

**Vocabulary:** To enable the students to learn root words, prefixes and suffixes, homophones, homographs, homonyms and collocations.

**Spellings:** to ensure that the students must comprehend the correct spellings.

**Reading passages:** To familiarize the students with various facets of Telangana like Chindula Yelamma, Bathukamma, The Million March and Hussain Sagar.

**Soft skills:** To empower the learners in conversational skills, writing skills, soft skill and value orientation.

English language exposes the students at the undergraduate level to a range of context where the language meets a variety of real-life communication needs.

**Lessons:** To familiarize the students with the selected works of renowned English authors like Eudora Welty, Stanley Houghton, Aldous Huxley, P.B. Shelley and William Shakespeare.

**Pronunciation:** To ensure daily practice of the students in various phonemes like



plosives, fricatives, affricates and nasal sounds to enhance their pronunciation.

**Grammar:** To ensure that the students must be aware of parts of speech and articles.

**Vocabulary:** To enable the students to build up their vocabulary using literary devices such as simile, metaphor, oxymoron, hyperbole, portmanteau words, loan words and palindromes.

**Spellings:** To help the students identify different spellings ending with *-ie, -ei, -able, -ible, -al, -ance, -ence, -ic, -ity, -ive*, and derived forms of words.

**Reading passages:** To familiarize the learners with the culture and heritage of Telangana through reading passages like *Hyderabad city: The heart of Telangana, Burrakatha, Cultural identity of Telangana and Handicrafts of Telangana*.

**Writing skills:** Students will be trained in written communication like, Note-Making, Informal Letters and Formal Letters.

**Soft skills:** Students will be trained to learn the importance of Time Management, Leadership qualities, Stress Management and Etiquette and Grooming.

SEMESTER II

Second year text *English in Use* for Semester-III CBCS equips the students to engage with the practical, emotional, intellectual, and creative aspects of language by integrating knowledge and skills.

**Poetry:** To ensure the students learn to appreciate the poetry of Charlotte Bronte, Kamala Das and Langston Hughes.

**Prose:** To familiarize the students with different essays by B.R. Ambedkar.

**Vocabulary:** To enable the students to build up their vocabulary through synonyms and antonyms, British and American English (common words), phrasal verbs, idioms and technical vocabulary (Business, Media).

**Grammar:** Students will be taught grammar with different techniques/usage of prepositions, voice (Active & Passive), concord, connectives

and reported speech (including reporting verb).

**Report Writing:** To empower the learners with different techniques of reports such as business reports, media reports, feasibility report, progress report and evaluation report.

## **U.G Course Outcome Semester-IV**

English Language has always influenced the students to get themselves familiarize with different cultures, socio-political conditions as well as technical writings.

**Poetry:** To enable the students to understand poetry and appreciate poetic devices used by Alfred Tennyson, A.K. Ramanujan and Roald Dahl.

**Prose:** Students will be familiarize with the essays written by Ruskin Bond, Henry Hitchings and J.K. Rowling.

**Vocabulary:** Students will get command over the commonly confused words, Indianism, one-words substitute, technical vocabulary (film, literature) and appropriacy in language learning.

**Grammar:** Students will comprehend grammar lessons such as determiners, framing questions (including tag questions), relative clauses, conditionals and common error.

**Review writing:** Students will be aware how to write reviews for films and books.

**CV writing:** Students will be accomplished with different formats of writing CVs.

**DEPARTMENT OF COMMERCE**

## Course Specific Outcomes (CSOs)

<b>SEM</b>	<b>Coursecode</b>	<b>CourseName</b>	<b>Coursespecificoutcomes</b>
1	<b>DSC101</b>	<b>FINANCIAL ACCOUNTING-I</b>	CO1: Students learn about accounting concepts and conventions CO2: They learn journalizing the transactions, preparation of ledgers, trial balance and final accounts CO3: Learn how to reconcile Cash book and bank statements.
1	<b>DSC102</b>	<b>BUSINESS ORGANISATION</b>	CO1: To acquaint the students with the basics of commerce and business concepts and functions CO2: Acquaints about company registration process CO3: Students learn about secondary markets and Sources of finance.
1	<b>DSC103</b>	<b>FUNDAMENTAL SOFTWARE TECHNOLOGY</b>	CO1: Students understand basic concepts, terminology of information technology CO2: They will be able to identify devices, types of computers, information related to software and Operating systems CO3: They learn how to browse internet and Ms – Office.
2	<b>DSC202</b>	<b>BUSINESS LAWS</b>	CO1: Learn about framework of India Business Laws CO2: At the end of this course, the students will be able to understand legal aspects related to business. CO3: Learn Management and winding up of companies in India.
2	<b>DSC203</b>	<b>PROGRAMMING WITH C++</b>	CO1: They learn the fundamental concepts of programming in C++ CO2: Object oriented programming using C++. CO3: How to build Arrays, Strings, Data structures are learnt.

3	<b>DSC301</b>	<b>ADVANCED ACCOUNTI NG</b>	C01: They acquire accounting knowledge of Partnership firms and Joint stock companies. C02: Learn how companies issue shares
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			and debentures and accounting treatment. Co3: learn valuation methods of Goodwill and shares.
3	<b>DSC302</b>	<b>BUSINESS STATISTICS-I</b>	C01: acquire to inculcate analytical and computational ability. Co2: Diagrammatic and Graphical representation of data are learnt. Co3: Measures of dispersion skewness and kurtosis.
3	<b>DSC303</b>	<b>RELATIONAL DATABASE MANAGEMENT SYSTEMS</b>	C01: Students acquire basic conceptual background necessary to design and develop database systems Co2: Students learn how to write queries using a standard query language called SQL Co3: Students learn how to correct database errors backup and recovery techniques, security and integrity techniques
4	<b>DSC401</b>	<b>INCOME TAX</b>	C01: They acquire conceptual and legal knowledge about income tax provisions relating to computation of income from different heads C02: Students learn assessment of individuals and procedures Co3: they learn computation procedure for long term and short term capital gains and losses.
4	<b>DSC402</b>	<b>BUSINESS STATISTICS-II</b>	C01: Learn to calculate analytical and computational ability Co2: Construction of regression line for variables Co3: learn how to construct Index Numbers Co4: Study probability theorems and theoretical distributions.
4	<b>DSC403</b>	<b>WEB TECHNOLOGIES</b>	C01: Students gain skills of usage of web technologies to Design web pages Co2: They learn client side and server side Javascripts Co3: learn creating XML documents and hyperlinks in XML document with XML

			Query language.
5	<b>DSE501</b>	<b>COST ACCOUNTING</b>	CO1: To make the students acquire the knowledge of cost accounting methods Co2: They learn tender and estimated cost sheet and preparation of job cost sheet.
5	<b>DSE502</b>	<b>COMPUTERISED ACCOUNTING</b>	CO1: This course enables the students to acquire basic knowledge in the computerized accounting systems and its applications in the area of business. Co2: students acquire the about recording day to day transactions in ERP CO3: Reports preparation in ERP are learnt
5	<b>DSE503</b>	<b>MANAGEMENT INFORMATION SYSTEMS</b>	CO1: Students learn decision making CO2: They learn ERP and enterprise systems CO3: students learn needs and problems in achieving advanced MIS
6	<b>PR</b>	<b>RESEARCH METHODOLOGY AND PROJECT REPORT</b>	CO1: students learn through internship how to do project work and methods of data collection, analysis, tabulation, inference and to conclude CO2: learn Parametric and Non Parametric tests. CO2: Building up of hypothesis testing.
6	<b>DSC601</b>	<b>COST CONTROL AND MANAGEMENT ACCOUNTING</b>	CO1: Acquaint with cost control techniques CO2: Managerial Accounting decision making techniques and reporting methods CO2: Techniques of financial statement of analysis
6	<b>DSE602</b>	<b>THEORY AND PRACTICE OF GST</b>	CO1: Learn about goods and services tax CO2: Enable the students to understand how to give GST rates at stock, group level and transaction level CO3: GST adjustments and return filing.
6	<b>DSE603</b>	<b>MULTIMEDIA SYSTEMS</b>	CO1: Learn digitalisation and transmission CO2: learn multimedia applications.

## **POST GRADUATE PROGRAMME OUTCOMES**

### **M.COM COURSE OUTCOMES**

#### **M.Com Semester I**

##### **MANAGERIAL ECONOMICS – COM 1**

- Students will know about the concept and practice knowledge of managerial economic.
- Students will be familiarized with the theory of demand and understand the elasticity of demand and
- Students will identify about the various laws of production and the scope of return to scale and economics of scale
- Students will gain knowledge on the concept of short run and long run curves for the purpose of cost accounting
- Students will be exposed knowledge about the market structure and types of competition related to the market competition

##### **Principles of Marketing – COM 2**

- The objective of this subject is to familiarize the students with the concepts and principles of Marketing, and syllabus does exactly that, at the end of the semester the students are fairly aware of all the important concepts of marketing like, the marketing concepts, marketing environment, market segmentation, target marketing, consumer behavior, market planning, marketing strategy, they get to know the usefulness of SWOT analysis, marketing myopia, environment in which the marketers work etc.,

##### **ORGANIZATION THEORY & ORGANISATION BEHAVIOR – COM 3**

- CO1: Introduction: To familiarize the students with the concepts and dimension of organization theory and organization behavior.
- CO2: Understanding individual and group behavior: To know about concept of personality its determinants and the related theories and also the important factors influencing team effectiveness in group behavior
- CO3 Motivation, morale and culture: To study the concept of motivation, morale and the various theories relating to motivational processes.
- CO4: Organizational power and politics and conflict communication: To familiarize the students with the concept of power and politics, conflict and its management and also to

hetypesofcommunication.

- CO5: Leadership and change: To get an idea on leadership management and its styles and also understand the contemporary issue in change.
- CO6: Theories of leadership: to understand the concept and nature of traits and behavioral models i.e. managerial grid.

#### **ACCOUNTING STANDARDS AND REPORTING-COM4**

- Students will study about the concept of accounting and its environment.
- Students will study about the concept of accounting standards and its enforcement and also learn about the accounting standards from 1 to 10.
- Students will know about the scopes of accountings standards and also learn about the accounting standards from 11 to 32.
- Students will understand the needs, importance, and role of accounting standard board and understand the uniform global financial reporting.
- Students will learn about the qualities, recent trends in corporate reporting and true blood report.

#### **FINANCIAL MANAGEMENT-COM5**

- CO1 Introduction: To introduce the subject of FM, and to acquaint the students with various techniques of financial management.
- CO2: Introduction to FM: To understand the various concepts of FM, the changing role of finance manager and the time value of money.
- CO3: Capital Budgeting: To familiarize with the various concepts and techniques used in capital budgeting, and study the risk analysis in capital budgeting decision.
- CO4: Working capital management: To know about working capital and get an overview on cash management, accounts receivable management and inventory management.
- CO5: Financing decision: To understand the concept of cost of capital, types of leverage and to know about the capital structure and its related theories.
- CO6: Dividend decision: To get an idea on concept of dividend policy and various theories relating to dividend.

### **M. Com Semester II**

#### **Business Environment & Policy-COM6**

- Business Environment and Policy acquaints students with knowledge about the business environment in India especially with Globalization, Liberalization and Privatization being taken to higher levels, and role of public sector, foreign capital



to along with the Policies of Government like industrial policies, fiscal policy, monetary policy, trade policy and changes in it consequent to WTO are all discussed and students get good enough knowledge about Indian Economy and new developments in Indian business environment.

### **Marketing Management COM7**

- This subject familiarizes the students with the functions of marketing like Product, Price, Promotion and Placement of product, and their management which includes branding, packaging, pricing, advertising, channel designs etc.,
- It also touches upon the components of Marketing Information System and methods applied by MKIS and the process of Market Research in India, which are extremely important for student's practical application of knowledge in the real world.

### **HUMAN RESOURCE MANAGEMENT COM-8**

- CO1: To understand the various facts of human resource management and comprehend emerging developments in HRM
- CO2: Human resource management; to familiarize the concept and changing roles of management and impact of environment on HRM.
- CO3: Acquisition of human resource: to understand various approaches for acquisition of HR and also knowledge on human resource planning
- CO4: Developing and motivating human resource; to understand the method and evaluation of training and development and performance appraisal for the development of human resource
- CO5: Maintenance of human resource; to familiarize the student with the compensation management and employee relation
- CO6: HRM in the knowledge era; to have an idea on knowledge management and visual learning in organization.

### **INVESTMENT MANAGEMENT-COM9**

- Students will be familiarized with the principles and practice of investment Management.
- Students will be able to understand about the types of market, growth and development of investor.
- Students will gain the knowledge of impact of risk and return and the purpose of systematic risk.
- The learner will become aware of the traditional and modern portfolio analysis for the purpose of investment decision.
- They will be able to understand the portfolio selection and measuring security return and risk.

## **ADVANCED MANAGERIAL ACCOUNTING-COM 10**

- CO1: To familiarize the student with application of advanced Managerial accounting Technique
- CO2: Financial statement analysis; to familiarize with financial statements and ratio analysis for funds flow analysis problems.
- CO3: Inflation accounting and incomes measurement; to understand the concept of inflation accounting in income from measurement.
- CO4: Financial measures of performance: To have an understanding of financial measures and balance score card.
- CO5: Human resource accounting and responsibility; to study the concepts and basic steps to follow simple problems through responsibility accounts.

## **M.Com III Semester**

### **RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS –COM11**

- Students will understand about the quantitative techniques in decision making and Method of research and formulation of hypothesis.
- Students will know about the primary and secondary sources of data and process of presenting data.
- Through the availability of data. Students will intercept the data and with that they can prepare the report.
- They will understand about the probabilities, Bayesian theorem and its simple application.
- Students will know about the chi square test, conditions for applying chi square test, Yates' correction.

### **ECommerce –COM12**

- E Commerce core paper also includes Computerized Accounting in the second part of syllabus, the subject makes know the students about information technology through its application, it provides elaborate knowledge about EDI, internet, WWW and legal, security and privacy issues and how they are overcome. The EFT and web page designing, exposes student to fundamental and functional areas of ECommerce.
- Along with E Commerce it also gives the students the skills and good knowledge about Computerized Accounting and use Tally software to do accounting. The

students learn HTML and Tally accounting package and computer lab and get fairly good knowledge about working of Tally and designing a simple webpage.

### **Cost Accounting and Control – COM13**

- This Core subject of Cost Accounting and Control imparts knowledge of cost accounting and equip students with skills of ascertainment of cost and control of cost, the syllabus covers Process costing, normal and abnormal losses and gains, by-product and joint product, marginal costing its difference with absorption costing and differential costing and its applications
- On the control front student learn about various budgetary control method applied to make budget of sales, material and expenditure etc. And then there is standard costing where standard and benchmarks are set to be achieved, and variances are recalculated if there is any deviation from standards, this gives students enough knowledge about cost and its important functions and operations

### **ADVANCED CORPORATE ACCOUNTING – COM14**

- Students will gain knowledge in minority interest, pre-acquisition or capital profit, revaluation of assets and liabilities, bonus share.
- Students will learn about the investment accounts significance, needs, accounting treatment, investment ledger, accounting for packages and containers.
- They will also help students to learn about lease accounting, financial lease, Operating lease, book of lesser and lessee.
- The learner will become aware of temporal method, current method, non-current method and preparation of consolidated statements.
- Students will know about the meaning, significance, nature, types, measurements and recognition of intangibles and valuation approaches.

### **Financial statement analysis – COM15**

- Understanding the basic financial statements.
- Understanding and analyzing the elements of the balance sheet.
- Understanding and analyzing the income statement.
- Understanding and applying the techniques of financial statement analysis.
- Understanding the short term liquidity analysis and know about profitability and solvency analysis.

### **QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS – COM16**

- Students will learn about the one tail test and two tail test with the concept of standard error, estimation of population parameters.
- Students will be able to know about the difference between large and small samples and testing significance of the mean.
- They will also learn about the F-test, one way and two way analysis of variance and control charts for variables.
- The learner will be aware of statistical decision theory, payoff tables, game theory, and saddle point, mixed and dominating strategy.
- It enables the student to understand about the linear programming, requirement for application and graphical solution of linear programming.

### **Business and Corporate Tax – COM17**

- Business and Corporate Tax acquaints students about theoretical and practical aspects of assessing Partnership firm u/s 184 and 185, Association of Person, and body corporates (like, different kinds of companies and tonnage companies, cooperatives societies, trust and venture capital to be precise)
- Students also in the process get knowledge about individual tax rates and assessments of Income from House Property, Income from Profession and business, long term and short term capital gains and income from other sources, calculation of Total Income, Deductions, Set Off and Carry Forwards.

### **STRATEGIC MANAGEMENT - COM18**

- Students will be familiarized with the strategy process, benefits, strategic management and level of strategy.
- Students will be able to know about the internal analysis and external analysis, SWOT analysis, PEST analysis and value chain analysis.
- They will learn about vision and mission, factors affecting strategy, first mover, mergers and acquisition.
- The learner will be able to know about the marketing, finance, accounting issues and organizational issues.
- They will be able to evaluate strategy, Barriers and overcoming barriers, strategic control and operational control.

### **ADVANCED COST ACCOUNTING & CONTROL COM19**

- CO1: Introduction: To impart conceptual knowledge of cost accounting and to equip with skills of ascertainment and control of sales.
- CO2: Cost accounting: To study the concept of cost accounting its nature and scope and also procedure for installation of costing system with the

relationship of financial and management accounting

- CO3: process Costing: To understand the method of normal and abnormal cost in FIFO and LIFO method
- CO4: Marginal costing: To study pros and cons of marginal costing and also understand the procedure for preparation of income statement under marginal costing.
- CO5: Budgetary control: To familiarize with the concept and technique used in budgetary control and classification of budgets
- CO6: To understand the pre-requisites of standard costing and the related pros and cons of standard costing and budgetary control.

### **MERGERS AND ACQUISITION – COM20**

- Students will know about the concept of mergers and acquisition, forms, reasons, history, growth strategies, framework and formulating strategies for mergers and acquisition.
- Students will synthesize regarding income approach, market approach, valuation of financial assets, relative value model, absolute value model and human aspects of mergers and acquisition.
- They will learn the legal aspects and SEBI regulatory, IRDA and income tax act.
- Students will be familiarized with the controversies and dilemmas in accounting for mergers and acquisition, IFRS, GAAP and valuation of goodwill.
- They will also understand about the effects of demergers, legal aspects, and taxation aspects.

### **PROJECTWORK - COM21**

- Through project work students will practically implement the subject of Research Methodology and Statistical Analysis.
- They will actually learn to apply the various statistical tools in their projects.
- Students will be able to learn the major of the minor things
- It helps them to develop their analytical and logical skills.
- The students can do a study and acquaint themselves with the practical side of commerce.

