

**Rizvi College of Arts, Science and Commerce**  
**Off Carter Road, Bandra (West), Mumbai - 400 050**

**Course Outcome**

**B.Sc. Zoology**

| Programme           | Course                | Name of Unit   |  |
|---------------------|-----------------------|--|--|
| B. Sc. (First Year) | USZO101<br>(Course 1) | Wonders of Animal World, Biodiversity and its Conservation | <p style="text-align: center;">Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.</p> <p style="text-align: center;">Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation.</p> <p style="text-align: center;">Minds of learners would be impulse to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.</p>     |
|                     | USZO102<br>(Course 2) | Instrumentation and Animal Biotechnology                   | <p style="text-align: center;">Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions</p> <p style="text-align: center;">Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box.</p> <p style="text-align: center;">Students will be skilled to select and operate suitable instruments for the studies of</p> |

| Programme | Course                         | Name of Unit                                    |   |
|-----------|--------------------------------|---|---|
|           |                                |   | <p>different components of Zoology of this course and also of higher classes including research.</p>  |
|           | <p>USZO201<br/>(Course:3)</p>  | <p>Ecology and Wildlife<br/>Management</p>      | <p>This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.</p> <p>Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.</p> <p>Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.</p> |
|           | <p>USZO 202<br/>(Course 4)</p> | <p>Nutrition, Public health<br/>and Hygiene</p> | <p>Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.</p> <p>Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in</p>  |

| Programme                       | Course                        | Name of Unit  |  |
|---------------------------------|-------------------------------|---|--|
|                                 |                               |   | <p>true sense.</p> <p>Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.</p>  |
| <p>B. Sc.<br/>(Second Year)</p> | <p>USZO301<br/>(Course 5)</p> | <p>Fundamentals of Genetics, Chromosomes and Heredity and Nucleic Acids</p> | <p>Understand and apply the principles of inheritance.</p> <p>Understand the concept of multiple alleles, linkage and crossing over.</p> <p>Learners would understand the structure and types of chromosomes.</p> <p>Learners would understand mechanisms of sex determination.</p> <p>Learners would be able to correlate the disorders linked to a particular sex chromosome.</p> <p>Learner would understand the importance of nucleic acids as genetic material.</p> <p>The learners would understand and appreciate the regulation of gene expressions.</p> |
|                                 | <p>USZO301<br/>(Course 6)</p> | <p>Nutrition, Excretion, Respiration, Circulation, Control and Co-</p>      | <p>Learners would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary</p>   |

| Programme | Course                 | Name of Unit  |  |
|-----------|------------------------|---|--|
|           |                        | ordination, Locomotion and Reproduction   | <p>hierarchy.</p> <p>Learners would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structures.</p> <p>Learners would understand the increasing complexity of respiratory and circulatory physiology in evolutionary hierarchy.</p> <p>Learners would be able to correlate the habit and habitat with respiratory and circulatory structures.</p> <p>Learners would understand the process of control and coordination by nervous and endocrine regulation.</p> <p>Learners would be fascinated by various locomotory structures found in the animal kingdom.</p> <p>Learners would be acquainted with various reproductive strategies present in animals.</p> |
|           | USZO 303<br>(Course 7) | Amazing animals,<br>Ethology and<br>Conservation biology,<br>Applied<br>Zoology | <p>Learners will become familiar with the enthralling animal world.</p> <p>Learners will appreciate the use of unique abilities of animals in development of technology.</p> <p>Learners would gain an insight into different types of animal behavior and their role in adaptation.</p>   |

| Programme | Course                 | Name of Unit   |   |
|-----------|------------------------|--|---|
|           |                        |  | <p>Learners would become sensitized to protect and manage biodiversity in a sensible and sustainable manner.</p> <p>Learner will understand the science of vermicomposting and dairy.</p> <p>Learner will appreciate and respect domestic pets through proper care.</p>   |
|           | USZO 401<br>(Course 8) | Comparative Embryology, Aspects of Human Reproduction and Scientific Attitude, Methodology, Writing and Ethics | <p>Learner will be able to understand and compare the different pre- embryonic stages</p> <p>Learner will be able to appreciate the functional aspects of extra embryonic membranes and classify the different types of placentae</p> <p>Learners will be able to understand human reproductive Physiology</p> <p>Learners will become familiar with advances in ART and related ethical issues.</p> <p>The learner will develop qualities such as critical thinking and analysis.</p> <p>The learner will develop the skills of scientific communication.</p> <p>Learner will understand the ethical aspects of research</p> |
|           | USZO 402<br>(Course 9) | Cell Biology, Endo membrane System and Biomolecules  | <p>Learner would acquire insight of transport mechanisms for the maintenance and composition of cell</p> <p>Learner would appreciate the intricacy of</p>   |

| Programme                       | Course                          | Name of Unit  |  |
|---------------------------------|---------------------------------|---|--|
|                                 |                                 |   | <p>endomembrane system.</p> <p>Learner would understand the interlinking of endomembrane system for functioning of cell.</p> <p>The learner will realize the importance of biomolecules and their clinical significance.</p>   |
|                                 | <p>USZO 403<br/>(Course 10)</p> | <p>Holistic Health,<br/>Neurological and genetic<br/>diseases<br/>and Pollution</p> | <p>Learners will apply the knowledge to adopt a healthy life style.</p> <p>The learner will become cognizant about genetic and neurological disorders as well as genetic counseling, its requisites and significance.</p> <p>Learner will be able to relate various anthropogenic activities with environmental degradation and its harmful effects on human health.</p> <p>Learner will become more sensitive towards the environmental issues.</p> |
| <p>B. Sc.<br/>( Third Year)</p> | <p>USZO 501<br/>(Course 11)</p> | <p>Holistic Health,<br/>Neurological and genetic<br/>diseases<br/>and Pollution</p> | <p>Learners will develop conceptual clarity with regard to the anatomy of animals at different levels. Learners shall comprehend the evolutionary perspective of each level of organization.</p> <p>Learners will know the importance of the significance and advantages of each level of organization.</p> <p>Learners will understand that scientific</p>  |

| Programme | Course                          | Name of Unit                          |  |
|-----------|---------------------------------|---------------------------------------|--|
|           |                                 |                                       | <p>classification of animals is based on certain characteristics they have in common.</p> <p>Learners will be able to recall characteristics features and examples of each phylum. Learners will be familiar with protozoan and helminth parasites.</p> <p>Learners will get an idea of higher groups of invertebrate animal life and their classification.</p> <p>Learners will get an idea of general characteristics and details of invertebrate animal systems.</p>  |
|           | <p>USZO 502<br/>(Course 12)</p> | <p>Haematology and<br/>Immunology</p> | <p>Learners would be able to realize the fundamental concepts in haematology.</p> <p>Learners will be familiar with different terminologies and diagnostic tests performed in a pathological laboratory. Learners will be better equipped for taking any further pathological course or working in a diagnostic laboratory.</p> <p>Learners would comprehend the types of immunity and the components of immune system. Learners would realize the significant role of immune system in giving resistance against diseases.</p> <p>Learners would understand immune related pathologies. Learners would understand</p> |

| Programme | Course                          | Name of Unit  |   |
|-----------|---------------------------------|---|---|
|           |                                 |   | <p>the principle and applications of vaccines. Learners would develop basic understanding of immunology of organ transplantation and cancer treatment.</p>  |
|           | <p>USZO 601<br/>(Course 15)</p> | <p>Minor Phyla, Taxonomy and Type Study</p>                     | <p>Learners will get an idea of basic morphological and physiological details of minor phyla and protochordates. Study of phylogeny will help learners to understand the evolutionary relationships between organisms.</p> <p>Learners will be able to identify classes of fish and amphibians by their anatomical features. Learners will be able to compare and contrast characters of fishes and amphibians. Learners will be able to describe evolutionary trends implied by their classification.</p> <p>Learners will understand that scientific classification of animals is based on certain characteristics they have in common. Learners will be able to recall characteristic features and examples of each class of Reptilia, Aves and Mammalia.</p> <p>Learners will get an idea of vertebrate animal life and its classification.</p> |
|           | <p>USZO 602<br/>(Course 16)</p> | <p>Enzymology, Homeostasis, Histology and General Pathology</p> | <p>Learners must be able to understand basics of enzyme structure and function. Learners must comprehend variations in enzyme activity</p>  |



| Programme | Course | Name of Unit |  |
|-----------|--------|--------------|--|
|           |        |              | <p>and kinetics. Learners must appreciate the enzyme assay procedures and the therapeutic application of enzymes.</p> <p>Learners would be able to understand the concept of positive and negative feedback mechanisms. Learners would comprehend the adaptive responses of animals to environmental changes.</p> <p>Learners would appreciate the well planned organization of tissues and cells in the organ systems</p> <p>Learners will gain knowledge of various infective agents and diseases caused by them. Learners will be familiar with various medical terminology pertaining to pathological condition of the body caused due to disease.</p> |

## B.Sc. (Physics)

| Class    | Sem     | Course                       | Outcomes   |
|----------|---------|------------------------------|--|
| F Y B Sc | Sem I   | Classical Physics            | <ol style="list-style-type: none"> <li>1. Understand Newton's laws and apply them in calculations of the motion of simple systems</li> <li>2. Use the free body diagrams to analyze the forces on the object.</li> <li>3. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them</li> <li>4. Understand the concepts of lens system and interference</li> <li>5. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process</li> <li>6. Demonstrate quantitative problem solving skills in all the topics covered</li> </ol> |
|          |         | Modern Physics               | <ol style="list-style-type: none"> <li>1. Understand nuclear properties and nuclear behavior</li> <li>2. Understand the type isotopes and their applications</li> <li>3. Demonstrate and understand the quantum mechanical concepts</li> <li>4. Demonstrate quantitative problem solving skills in all the topics covered</li> </ol>   |
| F Y B Sc | Sem II  | Mathematical Physics         | <ol style="list-style-type: none"> <li>1. Understand the basic mathematical concepts and applications of them in physical situations</li> <li>2. Demonstrate quantitative problem solving skills in all the topics covered</li> </ol>  |
|          |         | Electricity and Electronics  | <ol style="list-style-type: none"> <li>1. Understand the alternating current theory, AC bridges &amp; circuit theorem</li> <li>2. Understand Digital electronics, DC power supply</li> <li>3. Understand static electric and magnetic fields</li> </ol>  |
| S Y B Sc | Sem III | Mechanics and Thermodynamics | <ol style="list-style-type: none"> <li>1. Understand the concepts of mechanics &amp; properties of matter &amp; to apply them to problems.</li> <li>2. Comprehend the basic concepts of</li> </ol>   |

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|          |        |  | <p>thermodynamics &amp; its applications in physical situation.</p> <ol style="list-style-type: none"> <li>Learn about situations in low temperature.</li> <li>Demonstrate tentative problem solving skills in all above areas</li> </ol>   |
|          |        | Vector calculus,<br>Analog Electronics | <ol style="list-style-type: none"> <li>Understand the basic concepts of mathematical physics and their applications in physical situations.</li> <li>Understand the basic laws of electrodynamics and be able to perform calculations using them.</li> <li>Understand the basics of transistor biasing, operational amplifiers, their applications.</li> <li>Understand the basic concepts of oscillators and be able to perform calculations using them.</li> <li>Demonstrate quantitative problem solving skill in all the topics covered.</li> </ol> |
|          |        | Applied Physics - I                    | <ol style="list-style-type: none"> <li>Appreciate the role of Physics in 'interdisciplinary areas related to materials, Bio Physics, Acoustics etc.</li> <li>Understand the scope of the subject in Industry &amp; Research.</li> </ol>   |
| S Y B Sc | Sem IV | Optics and Digital Electronics         | <ol style="list-style-type: none"> <li>Understand the diffraction and polarization processes and applications of them in physical situations.</li> <li>Understand the working of digital circuits</li> <li>Use IC 555 timer for various timing applications.</li> <li>Demonstrate quantitative problem solving skills in all the topics covered.</li> </ol>   |
|          |        | Quantum Physics                        | <ol style="list-style-type: none"> <li>Understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in Physics.</li> <li>Demonstrate quantitative problem solving skills in all the topics covered.</li> </ol>   |
|          |        | Applied Physics - II                   | <ol style="list-style-type: none"> <li>Understand the concepts of geophysics.</li> <li>Understand 8085 microprocessor, basic assembly language programming, instruction set of 8085 microprocessor</li> <li>Write programs for 8085 microprocessor</li> <li>Understand the concept of radiation, its types and the concept of radio communication.</li> </ol>   |
| F Y B Sc |        | Practical Course                       | <ol style="list-style-type: none"> <li>To understand and practice the skills while</li> </ol>   |

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| &<br>S Y B Sc | Sem<br>I,II,III, IV |   | <p>doing physics practical</p> <ol style="list-style-type: none"> <li>To understand the use of apparatus and their use without fear</li> <li>To correlate their physics theory concepts through practical</li> <li>Understand the concepts of errors and their estimation</li> </ol>  |
| T Y B Sc      | Sem V               | Mathematical,<br>Thermal and<br>Statistical Physics | <ol style="list-style-type: none"> <li>Learn some mathematical techniques required to understand the physical phenomena at the undergraduate level</li> <li>Get exposure to important ideas of statistical mechanics</li> <li>Solve simple problems in probability, understand the concept of independent events and work with standard continuous distributions.</li> <li>Get idea of the functions of complex variables; solve non homogeneous differential equations and partial differential equations using simple methods.</li> </ol> |
|               |                     | Solid State Physics                                 | <ol style="list-style-type: none"> <li>Understand the basics of crystallography, Electrical properties of metals, Band Theory of solids, demarcation among the types of materials, Semiconductor Physics and Superconductivity.</li> <li>Understand the basic concepts of Fermi probability, distribution function, Density of states, conduction in semiconductors and BCS theory of superconductivity.</li> <li>Demonstrate quantitative problem solving skills in all the topics covered.</li> </ol>                                     |
|               |                     | Atomic and<br>Molecular Physics                     | <ol style="list-style-type: none"> <li>The application of quantum mechanics in atomic physics</li> <li>The importance of electron spin, symmetric and antisymmetric wave functions and vector atom model</li> <li>Effect of magnetic field on atoms and its application</li> <li>Learn Molecular physics and its applications.</li> </ol>   |
|               |                     | Electrodynamics                                     | <ol style="list-style-type: none"> <li>Understand the laws of electrodynamics and be able to perform calculations using them.</li> <li>Understand Maxwell's electrodynamics and its relation to relativity.</li> <li>Understand how optical laws can be derived from electromagnetic principles.</li> <li>Develop quantitative problem solving skills.</li> </ol>   |

|          |        |   |   |
|----------|--------|---|---|
| T Y B Sc | Sem V  | Elective I<br><br>Applied Component<br><br>Electronic Instrumentation | <ol style="list-style-type: none"> <li>1. Understand the difference between a transducer and a sensor.</li> <li>2. Understand the construction, working and uses of different types of transducers.</li> <li>3. Understand the concept of signal conditioning, devices used and their operations.</li> <li>4. Get acquainted with the measuring instruments used in laboratory.</li> <li>5. Get the insight of the modern medical instruments in principle, which are used in day to day life.</li> </ol>   |
| T Y B Sc | Sem VI | Classical Mechanics   | <ol style="list-style-type: none"> <li>1. Understand the kinds of motions that can occur under a central potential and their applications to planetary orbits.</li> <li>2. Learn the concepts needed for the important formalism of Lagrange's equations and derive the equations using D'Alembert's principle.</li> <li>3. Appreciate the drastic effect of adding nonlinear corrections to usual problems of mechanics and nonlinear mechanics can help understand the irregularity we observe around us in nature.</li> </ol>  |
|          |        | Electronics   | <ol style="list-style-type: none"> <li>1. Understand the basics of semiconductor devices and their applications.</li> <li>2. Understand the basic concepts operational amplifier: its prototype and applications as instrumentation amplifier, active filters, comparators and waveform generation.</li> <li>3. Understand the basic concepts of timing pulse generation and regulated power supplies</li> <li>4. Understand the basic electronic circuits for universal logic building blocks and basic concepts of digital communication.</li> <li>5. Develop quantitative problem solving skills in all the topics covered.</li> </ol> |
|          |        | Nuclear Physics   | <ol style="list-style-type: none"> <li>1. Understand the fundamental principles and concepts governing classical nuclear and particle physics</li> <li>2. Have knowledge of their applications interactions of ionizing radiation with matter the key techniques for particle accelerators the physical processes involved in nuclear power generation.</li> </ol>  |

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|          |            |  | <ol style="list-style-type: none"> <li>Understand the fundamental constituents of matter and lay foundation for the understanding of unsolved questions about dark matter, antimatter and other research oriented topics.</li> </ol>  |
|          |            | Special Theory of Relativity   | <ol style="list-style-type: none"> <li>Understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result</li> <li>Understand the importance of postulates of special relativity, Lorentz transformation equations and how it changed the way we look at space and time, Absolutism and relativity, Common sense versus Einstein concept of Space and time.</li> <li>Solve problems based on length contraction, time dilation, velocity addition, Doppler effect, mass energy relation and resolve paradoxes in relativity like twin paradox etc.</li> </ol> |
|          |            | Elective II<br><br>Applied Component<br><br>Electronic Instrumentation | <ol style="list-style-type: none"> <li>Analyze/design and implement combinational logic circuits.</li> <li>Develop assembly language programming skills and real time applications of microprocessor.</li> <li>Illustrate how to interface the I/O peripheral (PPI) with 8085 microprocessor</li> <li>Understand architecture, silent features, instruction set, programming and interfacing of 8051 microcontroller.</li> <li>Develop the programming skills in programming Language C++.</li> <li>Train their practical knowledge through lab experiments.</li> </ol>   |
| T Y B Sc | Sem V & VI | Practical Course<br><br>Core & Applied Component                       | <ol style="list-style-type: none"> <li>Understanding relevant concepts.</li> <li>Planning of the experiments</li> <li>Layout and adjustments of the equipments</li> <li>Understanding designing of the experiments</li> <li>Attempts to make the experiments open ended</li> <li>Recording of observations and plotting of graphs</li> <li>Calculation of results and estimation of possible errors in the observation of results</li> </ol>  |

## **Chemistry**

- To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry.
- To make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course.
- To make the learner capable of solving problems in the various units of this course
- To give the learner an opportunity to get hands on experience of the various concepts and processes in the various branches of chemistry
- To impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling
- To make the learner capable of analysing and interpreting results of the experiments he conducts or performs
- To make the learner capable of acquiring or pursuing a source of livelihood like jobs in chemical industry
- To arouse the interest to pursue higher levels of learning in chemistry.

## **B.Sc. (Botany)**

- To recognize and identify major groups of non-vascular and vascular plants and their phylogenetic relationships.
- To understand the phylogeny of plants and study various systems of classification.
- To explore the morphological, anatomical, embryological details as well as economic importance of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.
- To understand physiological processes and adaptations of plants.
- To provide knowledge about environmental factors and natural resources and their importance in sustainable development.
- To be able to carry out phytochemical analysis of plant extracts and application of the isolated compounds for treatment of diseases.
- To be able to deal with all microbes and the technologies for their effective uses in industry and mitigation of environmental concerns.
- To explain how current medicinal practices are often based on indigenous plant knowledge and to get introduced to different perspectives on treating ailments according to ethnomedicinal principles.
- To understand patterns of heredity and variation among individuals, species and populations and apply principles for improvement of quality and yield.
- To be able to apply statistical tools to gain insights into significantly different data from different sources.
- To acquire recently published knowledge in molecular biology, such as DNA technology; PTC and bioinformatics and their applications



## **Arts (Economics)**

### **FYBA Economics**

#### **Semester – I**

##### **1) Micro Economics - I : Paper I**

##### **Course Outcome**

This course is designed to introduce the students to elementary concepts in microeconomics. The student should be able to use these concepts to understand the relevance of microeconomics to the real world. The student should be able to build on these concepts in the future to develop deeper understanding of the Economy.

#### **Semester II**

##### **1) Macro Economics –II: Paper II**

##### **Course Outcome**

This course is designed to introduce the student to the basic building blocks of macroeconomics. Using an open economy framework, the course develops an understanding of the constituents of the open economy. The student should be able to build on these constituents in the later years so as to be able to analyse macroeconomic policies.

### **SYBA Economics**

#### **Semester - III**

##### **1) Micro Economics - II : Paper III**

##### **Course Outcome**

The aim of this paper is to make student aware microeconomics analysis and it considers the operation of a market economy and problem of how best to allocate society's scarce resources.

##### **2) Indian Economy: Contemporary Concerns : Paper IV**

##### **Course Outcome**

The aim of this paper is to make the students aware of the various contemporary issues of Indian economy in a particular year.

#### **Semester - IV**

##### **1) Macro Economics - II : Paper V**

##### **.Course Outcome**

The course introduces economics analysis of aggregate demand, supply, total employment, income And prices

##### **2) Economic Survey of Maharashtra : Paper VI**

##### **Course Outcome**

The aim of this paper is to make the students aware of the various contemporary issues of economy of Maharashtra in a particular concerned year.

# **TYBA Economics**

## **Semester V**

### **Course Outcome**

#### **1) Micro Economics III: Paper VII**

The course is designed to provide sound understanding in microeconomic theory. Since Students have been taught perfect competition; this course focuses on three aspects, Which are the study of imperfect competition, general equilibrium and welfare Economics.

#### **2) Economics of Development : Paper VIII**

This course is designed to inculcate diverse concepts related to economic growth and development by giving special emphasis on structural issues related to the process of development. In order to create awareness on policy options, the pressing problems on the path of development such as inequality, poverty and technological aspects are dealt in.

#### **3) Industrial and Labour Economics : Paper IX**

There has been a paradigm shift in the structure of the Indian industrial sector and the policies governing it ever since the new era of globalisation and liberalisation has ushered in. This paper intends to equip the students with the knowledge about the fundamentals of Industrial Economics.

#### **Industrial and Labour Economics : Paper IX**

This paper intends to prepare the students with the knowledge of the changing policies related to the Indian industry in the globalised era.

#### **4) Research Methodology: Paper X**

This paper is designed with the view to introduce the concepts, principles and methods of economic research based on qualitative and quantitative data. The course will enable the students to get an insight into the applications of modern analytical tools and techniques related economic decision making. The student gets an opportunity to learn how to collect and analyze primary and secondary data. Practical sessions will strengthen the knowledge related to computer applications to research analysis.

#### **5) Environmental Economics: Paper XI**

This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management. Economic implications of environmental policy are addressed as well as valuation of environmental improvements.

#### **6) History of Economic Thought: Paper XII**

This course provides basic understanding about the celebrated economists and their contributions starting from the classical period. This paper aims at to make the students aware of the contribution of Classical, Neo Classical, Modern and Nobel Laureate Economists.

## **Semester VI**

### **Course Outcome**

#### **1) Macro Economics III: Paper XIII**

This course introduces the students to formal modelling of a macroeconomic theory with analytical tools. It focuses on goods market with fixed exchange rate, the money market, uncovered interest rate parity and the benefits and costs of fixed and flexible exchange rates.

**2) International Economics: Paper XIV**

This course develops a systematic exposition of models which explains the composition, direction, and consequences of international trade and determinants and effects of trade policy. It then builds on the models of open economy macroeconomics focussing on national policies as well as international monetary systems. It concludes with analytical accounts of the causes and consequences of the rapid expansion of international financial flows in recent years.

**3) Industrial and Labour Economics : Paper XV**

Issues pertaining to the labour market, trade unions and amicable solution to industrial disputes have become vital for developing countries, especially for India, where the bulk of the labour force is employed in the organised sector, and the organised sector is witnessing a phenomenon of jobless growth.

This paper intends to provide knowledge of the same and also discuss the importance of labour welfare and social security measures for the growing labour force in India.

**4) Research Methodology: Paper XVI**

This paper is designed with a goal to strengthen the critical thinking and listening skills in conducting economic research and to device research outcomes in an impeccable way. The entire course is based on the broad social sciences spectrum.

**5) Indian Economic Thought: Paper XVII**

This paper provides insights into both economic issues and the workings of the Indian mind. It will give the student an introduction to major Indian thinkers and their ideas on Indian economic policy.

**6) International Trade, Policy and Practice: Paper XVIII**

This course is designed for addressing changing phase of International Trade Policy and Practice. The main purpose of this course is to expose students to current trends in International developments.

## Sociology

| Program code | Program name       | Course code | Name of the new course                | Course objectives  |
|--------------|--------------------|-------------|---------------------------------------|--|
|              | BA<br>SEM- I       | UASOC 101   | Foundations of Sociology              | <p>Students are Introduced to the basic concepts in Sociology</p> <p>Students are familiarized with the theoretical aspect of different concepts</p>   |
|              | SEM- II            | UASOC102    | Fundamentals of Sociology             | <p>Students are introduced to the emerging issues in Sociology</p> <p>Students are enthuse and to introduce them to the relevance and varied possibilities for future studies in Sociology.</p>                      |
|              | SEM-III<br>PR-II   | UASOC 301   | Indian Society: Structure And Change  | <p>Students are introduced to the Indian Sociological Traditions.</p> <p>Students are with the Research traditions in Indian Sociology</p> <p>Students are acquainted with the Emerging Issues in Indian society</p> |
|              | SEM III-<br>PR-III | UASOC302    | Contemporary Issues In Indian Society | <p>Students are awarded towards contemporary issues.</p> <p>Students inculcate</p>   |

| <b>Program code</b> | <b>Program name</b> | <b>Course code</b> | <b>Name of the new course</b> | <b>Course objectives</b>   |
|---------------------|---------------------|--------------------|-------------------------------|--|
|                     |                     |                    |                               | responsibilities and promote equality.   |
|                     | SEM-IV<br>PR- II    | UASOC401           | Sociology Of Development      | <p>Students are introduced to various theoretical perspectives in Indian society that have shaped the concept of development.</p> <p>Gained an insight into emerging issues and contemporary debates within the development discourse.</p>                                 |
|                     | SEM –IV<br>PR -III  | UASOC402           | Emerging Fields In Sociology  | <p>Students are introduced to the relevance and varied possibilities for future studies in sociology.</p> <p>Students are aware about the new vibrant fields in sociology.</p> <p>Students are understanding of struggle and survival in today's competitive scenario.</p> |
|                     | SEM-V<br>PR- IV     | UASOC 501          | Social Theory                 | Students are trained in Sociology with the understanding   |

| <b>Program code</b> | <b>Program name</b> | <b>Course code</b> | <b>Name of the new course</b>       | <b>Course objectives</b>   |
|---------------------|---------------------|--------------------|-------------------------------------|--|
|                     |                     |                    |                                     | <p>of Sociological Theory.</p> <p>Students are trained in the application of these theories to social situations.</p>  |
|                     | SEM- V<br>PR- V     | UASOC A 502        | Sociology<br>Of<br>Agrarian Society | <p>Students are introduced to the dynamics of traditional &amp; contemporary agrarian society.</p> <p>Understood the dynamics of agrarian formations and assess the development measures since 1947.</p> |
|                     | SEM-V-<br>PR-VI     | UASOC 503          | Sociology of Gender                 | <p>Trace the evolution of Gender as a category of social analysis.</p> <p>Trace the emergence of women's movement in India</p> <p>Sensitized the students on gender issues</p>                           |
|                     | SEM-V-<br>PR-VII    | UASOC B 504        | Urban Sociology                     | <p>Students introduced the basic concepts, theories, nature &amp; dynamics of urbanization in India</p> <p>Understood the trends of India's contemporary urbanization</p>                                |

| <b>Program code</b> | <b>Program name</b> | <b>Course code</b> | <b>Name of the new course</b>             | <b>Course objectives</b>   |
|---------------------|---------------------|--------------------|---|--|
|                     |                     |                    |   | pattern  |
|                     | SEM-V-<br>PR-VIII   | UASOC D 505        | State, Civil Society and Social Movements | <p>Developed an understanding of social movements in terms of various concepts and theories of social movements.</p> <p>Explained the emergence of new social movements in a post globalised and liberalised India</p>                                   |
|                     | SEM-V-<br>PR-IX     | UASOC 506          | Quantitative Social Research              | <p>Students are oriented with an orientation to Quantitative Social Research</p> <p>Students acquainted with the important concepts, techniques and processes in quantitative research</p> <p>Students worked on meaningful, minor research projects</p> |
|                     | SEM- VI<br>PR- IV   | UASOC 601          | Theoretical Anthropology                  | <p>Student is with the understanding of Theoretical Anthropology.</p> <p>Students are trained in the</p>   |

| <b>Program code</b> | <b>Program name</b> | <b>Course code</b> | <b>Name of the new course</b>                | <b>Course objectives</b>  |
|---------------------|---------------------|--------------------|--|---|
|                     |                     |                    |  | application of these Theories to social situations.   |
|                     | SEM-VI-<br>PR-V     | UASOC A602         | Development and Changes in Agrarian Society  | Analyzed attempts at financial inclusion of agrarian community.<br>Evaluated present development initiatives and critique the role of globalization on agriculture. |
|                     | SEM-VI-<br>PR-VI    | UASOC 603          | Gender and Society in India: Emerging Issues | Understood new and emerging issues in the Indian Women's movement<br>Understood newer methods of protest and resistance   |
|                     | SEM-VI-<br>PR-VII   | UASOC B 604        | Urbanisation In India: Issues And Concerns   | Understood urban development in the neo-liberal era.<br>Understood newly emerging issues and concerns in the changing scenario.                                     |
|                     | SEM-VI-<br>PR-VIII  | UASOC D 605        | Sociology of Marginalised Groups             | Sensitized students to the sociological significance of the study of marginalized groups<br>To create awareness of  |



| Program code | Program name      | Course code | Name of the new course      | Course objectives   |
|--------------|-------------------|-------------|-----------------------------|---|
|              |                   |             |                             | historically disprivileged groups in Indian society   |
|              | SEM-VI-<br>PR- IX | UASOC 606   | Qualitative Social Research | <p>Students are oriented with an orientation to Qualitative Social Research</p> <p>Students are with the important concepts, techniques and processes in qualitative research</p> |

## **Philosophy**

- The subject develops the philosophical ideas & enriches the values of action.
- Philosophy helps the learners in various ways. It is based on idealism, naturalism, pragmatism, realism, spiritualism. Philosophy develops the thoughts & ideas of the existence of God.
- It gives importance of Niskamakarma in the Bhagvat Gita. Undergraduate philosophy learner will be able to think creatively and independently, exploring possibilities beyond those entrenched in prevailing opinion and practice. This creativity and independence are also evident in the learners' ability to rigorously analyze the rhetoric encountered in various media, an ability that liberates the learner from being a prisoner to common patterns of fallacious reasoning. Finally, this creativity and independence are also evident in the learners' use of inductive reasoning skills to make inferences that move beyond conditions that are known, given, or accepted.
- The department seeks to serve those students who intend to pursue graduate studies, those pursuing interdisciplinary career programs, and those who simply desire to understand human reflective traditions in order to enlarge their own horizon of awareness.

## English

### Course Outcomes

| Sr. No. | Class/<br>Sem        | Paper-<br>Nomenclature                   | Course Outcomes / Objectives  |
|---------|----------------------|--|---|
| 1       | FYBA<br>Sem I & II   | Communication<br>Skills in English       | <p>To enhance language proficiency by providing adequate exposure to reading and writing skills</p> <p>To orient the learners towards the functional aspects of language</p> <p>To increase the range of lexical resource through a variety of exercises</p>  |
| 2       | FYBA<br>Sem I & II   | Introduction to<br>Literature<br>Paper I | <p>To acquaint students with the characteristics of various literary genres</p> <p>To develop analytical skills and critical thinking through close reading of literary texts</p> <p>To cultivate appreciation of language as an artistic medium and to help them understand the importance of forms, elements and style that shape literary works</p> <p>To enable students to understand that literature is an expression of human values within a historical and social context.</p> |
| 3       | FYBCom<br>Sem I & II | Business<br>Communication                | <p>To develop an awareness about the complexity of communication in a dynamic business environment.</p> <p>To develop effective oral, writing and listening skills among learners.</p>  |

| Sr. No. | Class/<br>Sem           | Paper-<br>Nomenclature                      | Course Outcomes / Objectives  |
|---------|-------------------------|---|---|
|         |                         |   | <p>To demonstrate the effective use of communication technology.</p>  |
| 4       | SYBA<br>Sem III &<br>IV | Indian Literature<br>in English<br>Paper II | <p>To introduce learners to the uniqueness of Indian Literature in English</p> <p>To acquaint learners to the pluralistic dimensions of Indian Literature in English</p> <p>To help them understand the different genres of Indian Literature in English</p> <p>To familiarise learners with different perspectives of approaching this literature</p> <p>To make learners aware of prominent Indian Writers in English</p>   |
| 5       | SYBA<br>Sem III &<br>IV | American<br>Literature<br>Paper III         | <p>To acquaint the learners of literature with the various genres and literary terms of twentieth century American Literature</p> <p>To sensitize them to the themes and styles of American Literature</p> <p>To introduce them to the socio-cultural milieu of twentieth century America through literary texts</p> <p>To enhance their understanding of American, African American and Multicultural sensibilities by introducing them to the literary works representing them</p> <p>To facilitate cross-cultural perspectives and</p> |

| Sr. No. | Class/<br>Sem           | Paper-<br>Nomenclature                          | Course Outcomes / Objectives   |
|---------|-------------------------|---|--|
|         |                         |   | discussions on American Literature   |
| 7       | SYBA<br>Sem III &<br>IV | Mass<br>Communication<br>Paper I & II           | <p>To introduce the students to some major aspects of communication and mass communication.</p> <p>To develop among the students a broad perspective of the past and the present status of Mass Media in India.</p> <p>To develop among the students a critical understanding of the Mass Media with regard to their presentation formats, roles and audiences in Indian context.</p> <p>To develop among the students a critical understanding of some special roles of different Mass Media in India.</p> <p>To help the students to assess the contribution of Indian mass media to national development.</p> <p>To acquaint the students with some issues and laws related to mass media in India.</p> <p>To introduce the students to various job and career opportunities in media industry.</p> |
| 9       | TYBA<br>Sem V and<br>VI | Paper IV<br>Elizabethan and<br>Jacobean Periods | <p>To introduce the students to English Literature of the 16, 17 and 18 centuries.</p> <p>To show them how background influences shaped the writer's thinking.</p> <p>To introduce them to literary masters who</p>  |

| Sr. No. | Class/<br>Sem           | Paper-<br>Nomenclature                                   | Course Outcomes / Objectives  |
|---------|-------------------------|--|---|
|         |                         |  | <p>dominated the scene</p> <p>To familiarize the students with the different writing styles that each age adopted.</p>  |
| 10      | TYBA<br>Sem V and<br>VI | Paper V<br>Literary Theory<br>and Practical<br>Criticism | <p>To introduce the learners of literature to the basics of literary criticism</p> <p>To sensitize them to critical approaches and literary theories</p> <p>To impart the technique of close reading of literary texts</p> <p>To enable the learners to analyze, interpret, explicate and evaluate literary texts</p> <p>To familiarize the learners with the tenets of practical criticism</p> |
| 11      | TYBA<br>Sem V and<br>VI | Paper VI<br>GRAMMAR<br>AND ART OF<br>WRITING             | <p>To develop among students an insight in the process of word formation and transformation.</p> <p>To develop among students an insight into the structure of English language and develop their skills of grammatical analysis and description.</p> <p>To provide knowledge of the underlying 'rules' of grammar.</p> <p>To introduce rhetorical structures for effective writing.</p>        |

## **Urdu**

- Conducting under graduate teaching effectively.
- Supervising and identifying new areas of research & conducting independent research through various research projects.
- Organizing seminars, conferences, workshops, symposia, Mushaira & Musical Programmes.
- Publishing research monographs, bibliographies & scholarly books. Conducting visiting lectures for students by eminent Urdu scholars.

## Hindi

| Sr. No. | Degree Programme | Year of Programme | Course Outcomes   |
|---------|------------------|-------------------|---|
| 1       | BA Hindi         | First Year        | <p><b>Hindi Poetry &amp; Story : Sem-1 and 2</b></p> <ol style="list-style-type: none"> <li>1. To create interest as well as introduce the students the genres of literature</li> <li>2. To introduce poet and their poems to the students</li> <li>3. To emphasize on the skills of listening, reading and writing in Hindi</li> <li>4. To develop emotional quotient through essays, stories, one act play, sketch, reports, memories, Caricature etc.</li> <li>5. To create awareness about the national values</li> </ol> |
|         |                  | Second Year       | <p><b>(UAHIN301) Sem-3 and (UAHIN401):Sem-4</b></p> <ol style="list-style-type: none"> <li>1. To create interest as well as introduce the students the genres of literature</li> <li>2. To introduce poet and their poems to the students</li> <li>3. To emphasize on the skills of listening, reading and writing in Hindi</li> <li>4. To develop emotional quotient through essays, stories, one act play, sketch, reports, memories, caricature etc.</li> <li>5. To create awareness about the national values</li> </ol>  |
|         |                  |                   | <p><b>(UAHIND302)Sem-3 and (UAHIN402) Sem-4</b></p> <ol style="list-style-type: none"> <li>1. To create awareness among students about Medieval literature and to imbibe in them the basic skills of life</li> <li>2. To acquaint students with an outline of Hindi literature create interest as well as introduce the students the genres of literature</li> <li>3. To introduce poet and their poems to the students</li> </ol>  |



|  |            |   |
|--|------------|---|
|  |            | <p>4. To emphasize on the skills of listening, reading and writing in Hindi</p> <p>5. To develop emotional quotient through essays, stories, one act play, sketch, reports, memories, caricature etc.</p> <p>6. To create awareness about the national values</p>   |
|  | Third Year | <p><b>(UAHIN501): Sem-5 and (UAHIN601)Sem-6</b></p> <p>1. To create interest of students in Hindi literature by acquainting students with great thoughts instilled in it.</p> <p>2. To emphasize on the skills of listening, reading and writing in Hindi</p> <p>3. To develop analytical skills through the interpretation of essays, stories, one act play, etc.</p> <p>4. To focus on research skills through seminars and projects</p>  |
|  |            | <p><b>(UAHIN502) and (UAHIN602)</b></p> <p>1. To create interest as well as introduce the students the genres of literature</p> <p>2. To introduce novelists and their works to the students such as Ana Is Desh (A message of reconciliation through love) and Dohara Abhishap (A message of eradication of caste system and imbibe humanitarian values)</p> <p>3. To emphasize the skills of listening, reading and writing in Hindi</p> <p>4. To develop emotional quotient through essays, stories, one act play, sketch, reports, memories, caricature etc.</p> <p>5. To create awareness about the national values</p> <p>6. To create interest of students in criticism</p> <p>7. To emphasize on the skills of listening, reading and writing in Hindi</p> <p>8. To develop analytical skills through the interpretation of essays, stories, one act play, etc.</p> <p>9. To focus on research skills through seminars and projects</p> |

**(UAHIN503) and (UAHIN603)**

1. To create interest of students in language through electronic and print media
2. To emphasize on the skills of listening, reading and writing in Hindi
3. To develop analytical skills through the interpretation of language, grammar, dialects, etc.
4. To focus on research skills through seminars and Projects

## Foundation Course

The Undergraduate programme is designed to prepare graduates to attain the following programme outcomes:

1. **Basic Knowledge of the society**  
Students get aware of the various issues that are important for the society and which directly or indirectly influence us.

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2. **Communication Skills**  
Effective Communication skills are a part of the course and it is the need of the hour. It will help the students to plan his/her career, such as realistic goals, behave in a more matured manner, manage time effectively and emerge as a winner in tasks that they undertake.
3. **Life-long learning**  
Students would recognize the need for, and have the preparation and ability to engage and in independent and life-long learning in the broadest context of technological change.
4. **Individual and Team work**  
Students would function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
5. **Problem analysis**  
Students would be able to identify, formulate, review and analyse the complex problems of the society reaching substantiated conclusion.
6. **Ethics**  
Students would be able to reflect various basic human values that we need to adopt to make our lives as well as those of others around meaningful and happier.
7. **Environment and Sustainability**  
Students will be aware of the concerns of the environment and be more responsible towards sustainable development of the environment.

## **BUSINESS LAW**

- The students get a general idea about the Laws applied in Business.
- Some of the students have joined the legal field.

## **Commerce**

### **F.Y.B.Com- Sem.-I**

#### **Commerce Paper I: Introduction to Business**

##### **Course Outcomes**

- To impart the basic knowledge of setting business unit
- To make learner aware of basic requirement and return and legal provisions for starting business
- To give elementary knowledge to learner about Entrepreneurship
- To expose them Problems and prospects of Women Entrepreneurs:
- To familiarize the learners with current trends in business.

### **F.Y.B.Com- Sem.-II**

#### **Commerce Paper II: Introduction to Services**

##### **Course Outcomes**

- To acquaint the students with the fundamentals of services
- To develop analytical ability to plan for various services strategies
- To familiarize the learners with current trends in services.
- To make students aware of present status of E-Commerce in India.

### **S.Y.B.Com- Sem.-III**

#### **Commerce –III (Management: Functions and Challenges)**

##### **Course Outcomes**

- To make the learners aware about conceptual knowledge and evolution of Management.
- To familiarize the learners with the functions in Management.

#### **Advertising– I Skill Enhancement Courses (SEC)**

##### **Course Outcomes**

- To expose them to various tools of IMC
- To make the learner aware of role of advertising in contemporary scenario
- To understand and examine the growing importance of advertising
- To acquaint students with future and career in advertising
- To familiarize the learners with current trends in advertising.

### **S.Y.B.Com- Sem.-IV**

#### **Commerce – IV (Management: Production & Finance)**

##### **Course Outcomes**

- To acquaint the learners with the basic concepts of Production Management, Inventory Management & Quality Management.
- To provide basic knowledge about Indian Financial Systems.
- To update the learners with the recent trends in Finance.

#### **Skill Enhancement Courses (SEC) Semester – IV ADVERTISING - II**

##### **Course Outcomes**

- To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
- To understand the construction of an effective advertisement
- It aims to orient learners towards the practical aspects and techniques of advertising.
- It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

**T.Y.B.Com- Sem.-V****Commerce – V (Marketing)****Course Outcomes**

- To understand basic concept of marketing and marketing mix
- To understand marketing philosophy and generating ideas for Marketing Information System and Marketing Research
- To make students aware about Marketing Challenges faced by Marketing Managers in 21st Century
- To update the learners with Skills required for effective marketing
- To understand Competitive Strategies for Market Leader, Market Challenger, Market Follower

**Skill Enhancement Courses (SEC) - Export Marketing-I****Course Outcomes**

- To acquaint the learners with the basic concepts of Export marketing
- To update the learners with Global Framework for Export Marketing
- To provide basic knowledge about Financial Incentives available to Indian Exporters
- To familiarize the learners with current trends in Export Marketing

**T.Y.B.Com- Sem.-VI****Commerce – VI (Human Resource Management)****Course Outcomes**

- To familiarize the student with the fundamental aspects of various issues associated with Human Resource Management as a whole.
- To introduce the basic concepts, functions and processes & create an awareness of the role, functions and functioning of Human Resource Management.
- To Understand the Concept and Process of HRP
- To understand the applications of HRIS
- To familiarize students with different theories of leadership and motivation
- To make students aware about Human Resource Challenges faced by HR managers
- To update the learners with the recent trends in HRM.

**Skill Enhancement Courses (SEC) – Export Marketing-II****Course Outcomes**

- To acquaint the learners with Product Planning and Pricing Decisions for Export Marketing
- To make students aware recent trends Export Distribution and Promotion
- To familiarize students with different sources of Export Finance
- To provide basic knowledge about Export Procedure and Documentation

## **Accountancy**

- 1) The subject prepares the student to do Accounting of various forms of organisations / corporate / partnership firms / sole proprietorships.
- 2) The subject also trains them in doing accounting which is useful in managerial decision making.
- 3) It also embarks knowledge on how to estimate the financial need of the organisations and its working capital requirements.
- 4) It is also useful in understanding cost and cost related concepts to the ascertaining cost of products and cost of services. Also, how to control cost and maximise profits.
- 5) It also offers insight into various kinds of Audits such as Statutory Audit, Internal Audit and Internal Controls which is needed by the corporate sectors.
- 6) It enables student through the training of above a potential secured jobs in various corporate and Banking Sectors or in their own business.

## **Environmental Studies**

1. To create an awareness about environmental perspective and human in environmental studies.
2. To highlight functional link between environment, economy and society and address the issues emerging from interference.
3. To expose the students to the emerging environmental issues both natural and human.
4. To sensitize the students towards measures that could be taken to reduce and mitigate the environmental problems.
5. To acquaint students with relevant tools and techniques to assess and analyze the environmental aspects.



# **BACHELORS OF MANAGEMENT STUDIES (BMS)**

## **FYBMS Semester I**

### **1. Introduction to Financial Accounting**

To understand the basic concepts & fundamentals used in Financial Accounting

### **2. Business Law**

To acquaint students about important provisions in Business Law.

### **3. Business Statistics**

To understand Managerial applications of Statistics

### **4. Business Communication – I**

To introduce key concepts of business communication & equip students with reading, writing, listening & presentation skills.

### **5. Foundation Course I**

To introduce students with an overview of the Indian society & to make them understand the Constitution of India.

### **6. Foundation of Human Skills**

To develop & demonstrate core skills & knowledge, attitude & values in students.

### **7. Business Economics - I**

To enable the students both the theory & practice of Business Economics.

## **FYBMS Semester II**

### **1. Principles of Marketing**

To introduce the students with the basic elements of Marketing Management terms & its implementation in the industry

### **2. Industrial Law**

To learn the laws relating to Industrial Relations, Social Security & Working Condition

### **3. Business Mathematics**

To understand basic terms in the areas of Business Mathematics & measurements used in common business practices.

### **4. Business Communication II**

To provide hands on experience in drafting report, business letters & developing effective inter-personal communication skills

### **5. Foundation Course II**

To provide an introduction to basic Human Rights, Principles, Instruments & Institutions & also an overview of Current Issues.

### **6. Business Environment:**

To introduce the students to multi-faceted environment of business so as to enable them appreciate finer nuances of the environment

### **7. Principles of management**

To develop critical thinking skills & identifying ethical, global & diversity issues in various functions of management

## **SYBMS Semester III**

### **Group A: Finance Electives:**

#### **1. Introduction to Cost Accounting**

To understand the basic concepts & processes used in Cost Accounting

#### **2. Corporate Finance**

To provide the conceptual background for corporate financial analysis from the point of corporate value creation.

### **Group B: Marketing Electives:**

#### **1. Consumer Behaviour**

To develop conceptual insights into key aspects such as social, psychological and other factors that influence consumer behaviour

#### **2. Advertising**

To demonstrate an understanding of overall role of communication in business world.

### **Group C: Human Resources Electives:**

#### **1. Recruitment & Selection**

To provide a conceptual and operational understanding of recruitment & selection & to evaluate the role that Human staffing functions, including job analysis

#### **2. Organizational Behaviour & HRM**

To analyse individual & group behaviour, & understand the implications of Organization behaviour on the process of human resources management.

### **Core Subjects:**

#### **3. Information Technology in Business Management – I**

To understand the role, impact & emerging trends of information technology in business management.

#### **4. Foundations Course –III (Environmental Management)**

To outline the implications of global trends for the environment, society, economy & organizations.

#### **5. Business Planning & Entrepreneurial Management**

To acquaint students with both theory & practice towards new business ventures.

#### **6. Accounting for Managerial Decisions**

To provide students with an introduction to management accounting in the context of business decisions, emphasizing the skills & knowledge that will be used in the work environment.

#### **7. Strategic Management**

To provide students with basic understanding the process of Strategy Formulation, Implementation & Evaluation.

## **SYBMS Semester IV**

### **Group A: Finance Electives:**

#### **1. Corporate Restructuring**

To introduce the concepts & various forms of corporate restructuring & its overall implications

## **2. Strategic Cost Management**

To develop understanding of various costing systems in different strategic decisions situation.

### **Group B: Marketing Electives:**

#### **1. Integrated Marketing Communications**

To help students understand the basic principles & practices of marketing communications, involving tools used by marketers.

#### **2. Rural Marketing**

To explore the students to rural market environment and emerging challenges in the globalization of the economies.

### **Group C: Human Resources Electives:**

#### **1. Human Resources Planning & Information System**

To apply current & emerging Information technologies to support Human Resources Function.

#### **2. Training & Development in HRM**

To orient students with different forms of training and development & its implications

### **Core Subjects:**

#### **3. Information Technology in Business Management – II**

To understand role, impact & emerging trends of information technology in business management & its application at Industrial & organizational level.

#### **4. Foundation Course IV (Ethics& Governance Decisions)**

To have an in-depth knowledge of the issues concerning Morals, Values, Ideologies and Ethics in personal, professional and business lives

#### **5. Business Economics II**

To introduce economic concepts and principles which are useful in understanding the general economic environment within which businesses and other organisations operate.

#### **6. Business Research Methods**

To understand the significance of research & various methods opted in analysing business problems

#### **7. Production & Total Quality Management**

To understand & implement the basic principles of PQM in manufacturing & service based organizations.

### **TYBMS Semester V**

#### **Group A: Finance Elective:**

##### **1. Investment Analysis & Portfolio Management**

To acquaint the students with various concepts of Finance & introduce various models & techniques of Security Analysis & Portfolio Management.

##### **2. Wealth Management**

To provide an overview of various aspects related to Wealth Management

##### **3. Financial Accounting**

To acquaint the students with preparation of final accounts of companies

#### **4. Direct Taxes**

To acquaint the students with basic principles underlying the provisions of direct tax laws and to develop a broad understanding of the tax laws and accepted tax practices

#### **Group B: Marketing Electives:**

##### **1. Services Marketing**

To understand distinctive features of services & key elements in Service Marketing

##### **2. E-Commerce & Digital Marketing**

To understand significance of E-Commerce & its application in business & various sectors

##### **3. Sales & Distribution Management**

To develop an understanding of the sales & distribution processes in an organization

##### **4. Customer Relationship Management**

To provide an insight into CRM marketing initiatives, Customer service & designing CRM Strategy

#### **Core Subjects:**

##### **5. Logistics & Supply Chain Management**

To provide students with basic understanding of concepts of Logistics & Supply Chain Management

##### **6. Corporate Communications & Public Relations**

To provide the students with basic understanding of concepts of Corporate Communications & Public Relations

#### **TYBMS Semester VI**

#### **Group A: Finance Elective:**

##### **1. International Finance**

It deals with the analysis of selected macro-economic issues in open economies

##### **2. Innovative Financial Services**

To demonstrate advanced knowledge of the theories & origin of Financial Services Regulation.

##### **3. Strategic Financial Management**

To gain in-depth knowledge of Financial Management & its functions

##### **4. Indirect Taxes**

To acquaint the students with basic principles underlying the provisions of Indirect tax laws

#### **Group B: Marketing Electives:**

##### **1. Brand Management**

Develop a consumer-centric approach to building, measuring and evaluating strategies that build brand equity for new and existing brands.

##### **2. Retail Management**

To develop the analytical ability of the students to attain an insight into Retail Management contexts

##### **3. International Marketing**

To develop a deep understanding of International Management

#### **4. Media Planning & Management**

To understand procedures, requirements & techniques of Media Planning & Buying

#### **Core Subjects:**

#### **5. Operations Research**

To understand the operating techniques & its application in business decision making

#### **6. Project Work**

To guide students on practical application of various concepts learned.

# **BACHELOR OF COMMERCE: ACCOUNTING & FINANCE (BAF)**

## **FYBAF – Semester I**

### **1. Financial Accounting (Elements of Financial Accounting) – I**

To provide students with the necessary elements used in Financial Accounting.

### **2. Cost Accounting (Introduction and Element of Cost) – I**

To understand the concepts and techniques in cost accounting.

### **3. Financial Management (Introduction to Financial Management) – I**

To gain in-depth knowledge & understand the functions of Financial Management.

### **4. Business Communication – I**

To introduce the key concepts of business communication & equip students with reading, writing, listening & presentation skills.

### **5. Foundation Course – I**

To introduce students with an overview of the Indian society & to make them understand the Constitution of India.

### **6. Commerce (Business Environment) – I**

To introduce the students to multi-faceted environment of business so as to enable them appreciate finer nuances of the environment

### **7. Business Economics – I**

To enable the students both the theory & practice of Business Economics.

## **FYBAF – Semester II**

### **1. Financial Accounting (Special Accounting Areas) – II**

To orient students on methods of recording goods transferred to Branch, Consignment purpose.

### **2. Auditing (Introduction and Planning) – II**

To study the principles, practices & procedures of Auditing.

### **3. Taxation - I (Indirect Taxes I)**

To acquaint the students with basic principles underlying the provisions of Indirect tax laws.

### **4. Business Communication – II**

To provide hands on experience in drafting report, business letters & developing effective inter-personal communication skills.

### **5. Foundation Course – II**

To provide an introduction to basic Human Rights, Principles, Instruments & Institutions & also an overview of Current Issues.

### **6. Business Law (Business Regulatory Framework) – I**

To acquaint students about important provisions in Business Law.

### **7. Business Mathematics**

To understand basic terms in the areas of Business Mathematics & measurements used in common business practices.

### **SYBAF – Semester III**

#### **1. Financial Accounting (Special Accounting Areas) – III**

To acquaint students about advanced understanding of accounting of partnership firms & accounting for reconstruction.

#### **2. Cost Accounting (Methods of Costing) – II**

To make students understand, the range of cost accounting concepts & their terminologies.

#### **3. Taxation – II (Direct Taxes Paper – I)**

To acquaint the students with basic principles underlying the provisions of direct tax laws and to develop a broad understanding of the tax laws and accepted tax practices.

#### **4. Information Technology in Accountancy – I**

To understand the role, impact & emerging trends of information technology in Accountancy.

#### **5. Foundation Course in Commerce (Financial Market Operations) – III**

To prepare students to work within financial institutions & financial consulting.

#### **6. Business Law (Business Regulatory Framework) – II**

To provide a brief idea about of Business Regulatory Framework of Indian Business Law

#### **7. Business Economics – II**

To introduce the basic concepts of Macro Economics along with an understanding of the Indian economy

### **SYBAF – Semester IV**

#### **1. Financial Accounting (Special Accounting Areas) – IV**

To explain students about Preparation of Financial Accounts of companies & Procedure for repayment of borrowings & capital.

#### **2. Management Accounting (Introduction to Management Accounting)**

To make students understand, the range of Management accounting concepts & their terminologies.

#### **3. Taxation – III (Direct Taxes Paper – II)**

To understand the computation of tax Liability of Individual & Partnership Firm.

#### **4. Information Technology in Accountancy – II**

To understand role, impact & emerging trends of information technology & its application in the field of Accountancy.

#### **5. Foundation Course in Management (Introduction to Management) – IV**

To orient students on different functions of management.

#### **6. Business Law (Company Law) – III**

To provide students with knowledge of Company Law.

#### **7. Research Methodology in Accounting and Finance**

To understand the significance of research & its methods adopted in the field of Accounting and Finance.

### **TYBAF – Semester V**

#### **1. Cost Accounting – III**

To make student understand the role of cost accountant in possessing superior professional skills.

## **2. Financial Management – II**

To acquaint students with advanced understanding of budgeting, decision making and valuation of securities.

## **3. Taxation – IV (Indirect Taxes – II)**

To provide basic understanding & working of GST.

## **4. International Finance**

To familiarize the student with the essential aspects of various issues associated with International Finance.

## **5. Financial Accounting – V**

To make the student understand accounting aspects of Underwriting, Shares/Debentures & Mergers/Purchase.

## **6. Financial Accounting – VI**

To make the students understand the concepts and methods relating to final accounts of banking, insurance and financial sectors.

### **TYBAF – Semester VI**

#### **1. Cost Accounting – IV**

To analyse performance of business with respect to budgeted cost and to provide understanding of decision making in costing.

#### **2. Financial Management – III**

To provide advanced understanding of reconstruction from the view of financial management and specific decision making with respect to lease.

#### **3. Taxation – V (Indirect Taxes – III)**

To provide understanding of Customs & Foreign Trade Policy.

#### **4. Economics paper – III (Indian Economy)**

To provide with detail understanding of different sectors in Indian economy.

#### **5. Financial Accounting – VII**

To create an understanding of financial accounting of concern operating under different laws.

#### **6. Project Work**

To guide students on practical application of various concepts learned.



# **BACHELOR OF COMMERCE: BANKING & INSURANCE (BBI)**

## **FYBBI – Semester I**

### **1. Environment and Movement of Financial Services**

To acquaint students about the Financial System & emphasize on the Regulatory and Developmental Framework of Banking & Insurance.

### **2. Principles of Management**

To develop critical thinking skills & identifying ethical, global & diversity issues in various functions of management.

### **3. Financial Accounting – I**

To understand the basic concepts & fundamentals used in Financial Accounting.

### **4. Business Communication – I**

To introduce key concepts of business communication & equip students with reading, writing, listening & presentation skills.

### **5. Foundation Course – I**

To introduce students with an overview of the Indian society & to make them understand the Constitution of India.

### **6. Business Economics – I**

To enable the students both the theory & practice of Business Economics.

### **7. Quantitative Methods – I**

To understand concepts & applications of Quantitative Methods in the field of Banking & Insurance

## **FYBBI – Semester II**

### **1. Principal and Practices of Banking & Insurance**

To provide an overview of Banking & Insurance Industry in India.

### **2. Business Law**

To acquaint students about important provisions in Business Law.

### **3. Financial Accounting – II**

To make the student understand various accounting aspects related to shares & Debentures.

### **4. Business Communication – II**

To provide hands on experience in drafting report, business letters & developing effective inter-personal communication skills

### **5. Foundation Course – II**

To provide an introduction to basic Human Rights, Principles, Instruments & Institutions & also an overview of Current Issues.

### **6. Organizational Behaviour**

To analyse individual & group behaviour, & understand the implications of Organization behaviour.

## **7. Quantitative Methods – II**

To highlight the Statistical Applications In the field of Banking & Insurance.

### **SYBBI – Semester III**

#### **1. Financial Management – I**

To introduce the basic concepts of Financial Management & to provide an understanding on Budgeting & Financial Decisions.

#### **2. Management Accounting**

To provide students with an introduction to management accounting in the context of business decisions, emphasizing the skills & knowledge that will be used in the work environment.

#### **3. Organizational Behaviour**

To understand individual, group and organizational through the personality learning and perception of the people at workplace.

#### **4. Information Technology in Banking & Insurance – I**

To understand the role, impact & emerging trends of information technology in Banking & Insurance.

#### **5. Foundation Course – III (An Overview of Banking Sector)**

To provide an overview of Banking Sector in India.

#### **6. Financial Market**

To provide students an insight about Indian Financial System & working of Financial Markets in India.

#### **7. Direct Taxation**

To provide students hands on experience in Computing of Total Income & Taxable Income.

### **SYBBI – Semester IV**

#### **1. Financial Management – II**

To provide students a basic understanding of capital requirements and financial planning.

#### **2. Cost Accounting**

To provide basic understanding of costs and decision making in costing.

#### **3. Customer Relationship Management**

To provide an insight into CRM marketing initiatives, Customer service & designing CRM Strategy.

#### **4. Information Technology in Banking & Insurance – II**

To familiarize students with the e-banking models, and its applications.

#### **5. Foundation Course – IV (An Overview of Insurance Sector)**

To provide an overview and role of various insurance sectors.

#### **6. Corporate and Securities Laws**

To provide students with an overview of company law, and its regulatory framework.

#### **7. Business Economics – II**

To make students understand about macroeconomic and policies.

### **TYBBI – Semester V**

#### **1. Auditing – I**

To provide students with overview of auditing and various techniques.

## **2. Strategic Management**

To provide students with basic understanding the process of Strategy Formulation, Implementation & Evaluation.

## **3. Financial Services Management**

To prepare students to deal with the issue of management of various financing activities in the banks and financial institutions.

## **4. Business Ethics and Corporate Governance**

To have an in-depth knowledge of the issues concerning Morals, Values, Ideologies and Ethics in personal, professional and business.

## **5. International Banking and Finance**

To familiarize students with fundamentals of International finance, and its banking operations.

## **6. Research Methodology**

To understand the significance of research & various methods opted in analysing business problems.

### **TYBBI – Semester VI**

#### **1. Security Analysis and Portfolio Management**

To acquaint the students with various concepts of Finance & introduce various models & techniques of Security Analysis & Portfolio Management.

#### **2. Auditing – II**

To provide understanding under companies act and under various statute.

#### **3. Human Resource Management**

To facilitate learning in modern concepts, techniques & practices of HRM in Banking & Insurance Sector

#### **4. Marketing in Banking & Insurance**

To acquaint students with the basic elements of Service Marketing applicable in the field of Banking & Insurance

#### **5. Central Banking**

To provide students with learning & practices of functions of central banks & monetary policy & its evolution.

#### **6. Project Work in Banking & Insurance**

To guide students on practical application of various concepts learned.

# **BACHELOR OF MASS MEDIA (BMM)**

## **FYBMM – Semester I**

### **1. Effective Communication Skill**

To make the students aware of functional and operational use of language in media & to equip or enhance students with structural and analytical reading, writing and thinking skills.

### **2. Fundamentals of Mass Communication**

To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India & to understand the concept of New Media and Media Convergence and its implications.

### **3. Introduction to Computers**

To equip the students with a general understanding of computer basics for everyday use in Media Industry.

### **4. Introduction to Economics**

To introduce the basic concepts of Micro & Macro Economics along with an understanding of the Indian economy with an objective to sensitise on economic issues relevant to India.

### **5. Introduction to Sociology**

To highlight the need and relevance of Sociology in Mass Media from a sociological perspective.

### **6. Landmark Events in History of World, India and Maharashtra**

To acquaint the student with past events, which have made historical milestones & understand the role of media in these events.

## **FYBMM – Semester II**

### **1. Effective Communication Skill – II**

To make student understand the impact of changing methods of communication in the field of media.

### **2. Introduction to Media Psychology**

To provide an interdisciplinary study of concepts in the field of media, communication and psychology.

### **3. Introduction to Literature**

To give exposure to media students to various forms of Literature & to make them understand the reflection of literature in contemporary period.

### **4. Principles of Management**

To understand the designed fundamentals of management & its practices in media industry.

### **5. Principles of Marketing**

To introduce the students with the basic elements of Marketing Management terms & its implementation in Media industry.

### **6. Political Concepts and the Indian Political System**

To provide the students with a strong base in the 'Indian Political System' and to expose them to its dynamics and complexities.

## **SYBMM – Semester III**

### **1. Introduction to Media Studies**

To make students understand, mass media as system of interrelated forces & to grasp complex relationship between communication & media.

### **2. Introduction to Creative Writing**

To acquaint students with basic concepts on literary writing, and to encourage students for content writing.

### **3. Understanding Cinema**

To create awareness among students, towards Cinema as a medium of Mass Communication and help them to become critical viewers of movies in present time, from Personal, Social and Business Point of View.

### **4. Introduction to Public Relations**

To prepare the students for an effective and ethical communication skills, and in maintain public relations.

### **5. Introduction to Cultural Studies**

To create an awareness on cultural theories and its relevance in media and to make students understand the cultural concepts and its impact on the media.

### **6. Advanced Computers**

To equip the students with a understanding of industry knowledge required to make a career.

## **SYBMM – Semester IV**

### **1. Introduction to Advertising**

To introduce students to the basic concepts in advertising as well as understand the process of creating an ad campaign.

### **2. Introduction to Journalism**

To provide students with an insight in the disciplines of communication & journalism that is current, relevant, and practical.

### **3. Print Production and Photography:**

To create awareness about print media & help students understand the principles and practices of photography.

### **4. Radio and television:**

To develop an understanding in broadcast & streaming media & learning the art of producing creative content for radio & television.

### **5. Mass Media research:**

To understand the scope and techniques of media research, their utility and limitations.

### **6. Organisation Behaviour**

To impart knowledge of the basic concepts and facets of organizational behaviour.

## **TYBMM – Semester V Advertising**

### **1. Copywriting**

To familiarize the students with the concept of copywriting as selling through writing, and to make student understand the process of creating original, strategic, compelling copy of various media.

## **2. Media Planning and Buying**

To make students understand procedures, requirements, and techniques of media planning and buying.

## **3. Consumer Behaviour**

To make students understand the role of marketing in influencing consumer behaviour, and to analyse the role of marketer and consumer in advertising.

## **4. Brand Building**

To study the concept and process of brand building, and its importance to the advertisers, and its overall impact on consumers.

## **5. Advertising in Contemporary Society**

To understand the environment in Contemporary Society and to make students understand Liberalization and its impact on the economy.

## **6. Advertising Design (Project Paper)**

To make students understand the process of planning and production of advertisement, and to provide practical training in the field of advertising.

### **TYBMM – Semester V Journalism**

#### **1. Reporting**

To enable students understand the techniques & tools of Reporting.

#### **2. Editing**

To make students understand the role of an editor & the techniques applied.

#### **3. Journalism and Public Opinion**

To project a fair idea of the role of the media in creating and influencing Public Opinion.

#### **4. Features and Opinion**

Understanding the differences between reporting and feature writing & developing the skills required.

#### **5. Indian Regional Journalism**

To Study the history and role of Indian press other than in English & understand the regional press and television in the current scenario.

#### **6. Newspaper and Magazine Making (Project Paper)**

To study the design, elements of the newspaper and magazine & understanding the process of planning and production of newspaper and magazine.

### **TYBMM – Semester VI Advertising**

#### **1. Financial Management for Marketing and Advertising**

To provide an over view of the basic concepts of financial management & its relevance in the field of marketing & advertising.

#### **2. Agency management**

To familiarize students with the different aspects of operating an ad agency & acquaint students with concepts, techniques for developing an effective advertising campaign.

#### **3. Advertising and Marketing Research:**

To understand the scope and techniques of Advertising and Marketing research, and their utility.

#### **4. Legal Environment and Advertising Ethics**

To acquaint students to the Legal Environment in contemporary India highlighting the relevance of the same with reference to Advertising media.

#### **5. Principles and Practice of Direct Marketing:**

To provide students with the optimum learning experience in order to demonstrate the skill & knowledge required to plan Direct Marketing Plans

#### **6. Contemporary Issue**

To understand and analyse the present environmental, political, economic and social issues, challenges and its implications on development.

#### **7. Digital Media**

To understand and analyse the present environmental, political, economic and social issues, challenges and its implications on development.

### **TYBMM – Semester V Journalism**

#### **1. Press Laws and Ethics**

To introduce students to a range of Press Laws & Ethics.

#### **2. Broadcast Journalism**

To understand the development of broadcast journalism.

#### **3. Business and Magazine Journalism:**

To understand various aspects of business & magazine journalism.

#### **4. Internet and Issue in Global Media**

Study the role of media in the 21st Century and its challenges.

#### **5. News Media Management**

To make students understand specific tools & practices in news & media management.

#### **6. Contemporary Issue**

To understand and analyse the present environmental, political, economic and social issues, challenges and its implications on development.

#### **7. Digital Media**

To understand and analyse the present environmental, political, economic and social issues, challenges and its implications on development.

# COMPUTER SCIENCE

## **FYBSc Semester I**

### **Name of Course (Subject): Computer Organization and Design**

- 1) To learn about how computer systems work and underlying principles
- 2) To understand the basics of digital electronics needed for computers
- 3) To understand the basics of instruction set architecture for reduced and complex instruction sets
- 4) To understand the basics of processor structure and operation
- 5) To understand how data is transferred between the processor and I/O devices

### **Name of Course (Subject): Programming with Python- I**

- 1) Students should be able to understand the concepts of programming before actually starting to write programs.
- 2) Students should be able to develop logic for Problem Solving.
- 3) Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc.
- 4) Students should be able to apply the problem solving skills using syntactically simple language i.e. Python (version: 3.X or higher)

### **Name of Course (Subject): Free and Open Source Software**

- 1) Upon completion of this course, students should have a good working knowledge of Open Source ecosystem, its use, impact and importance.
- 2) This course shall help student to learn Open Source methodologies, case studies with real life examples.

### **Name of Course (Subject): Database Systems**

- 1) Students should be able to evaluate business information problem and find the requirements of a problem in terms of data.
- 2) Students should be able to design the database schema with the use of appropriate data types for storage of data in database.
- 3) Students should be able to create, manipulate, query and back up the databases.

### **Name of Course (Subject): Discrete Mathematics**

- 1) To provide overview of theory of discrete objects, starting with relations and partially ordered sets.
- 2) Study about recurrence relations, generating function and operations on them.
- 3) Give an understanding of graphs and trees, which are widely used in software.
- 4) Provide basic knowledge about models of automata theory and the corresponding formal languages.

### **Name of Course (Subject): Descriptive Statistics and Introduction to Probability**

- 1) Enable learners to know descriptive statistical concepts
- 2) Enable study of probability concept required for Computer learners

### **Name of Course (Subject): Soft Skills Development**

- 1) To know about various aspects of soft skills and learn ways to develop personality
- 2) Understand the importance and type of communication in personal and professional environment.
- 3) To provide insight into much needed technical and non-technical qualities in career planning.
- 4) Learn about Leadership, team building, decision making and stress management



## **FYBSc Semester II**

### **Name of Course (Subject): Programming with C**

- 1) Students should be able to write, compile and debug programs in C language.
- 2) Students should be able to use different data types in a computer program.
- 3) Students should be able to design programs involving decision structures, loops and functions.
- 4) Students should be able to explain the difference between call by value and call by reference
- 5) Students should be able to understand the dynamics of memory by the use of pointers.
- 6) Students should be able to use different data structures and create/update basic data files.

### **Name of Course (Subject): Programming with Python– II**

- 1) Students should be able to understand how to read/write to files using python.
- 2) Students should be able to catch their own errors that happen during execution of programs.
- 3) Students should get an introduction to the concept of pattern matching.
- 4) Students should be made familiar with the concepts of GUI controls and designing GUI applications.
- 5) Students should be able to connect to the database to move the data to/from the application.
- 6) Students should know how to connect to computers read from URL and send email.

### **Name of Course (Subject): Linux**

- 1) Upon completion of this course, students should have a good working knowledge of Linux, from both a graphical and command line perspective, allowing them to easily use any Linux distribution.
- 2) This course shall help student to learn advanced subjects in computer science practically.
- 3) Student shall be able to progress as a Developer or Linux System Administrator using the acquired skill set.

### **Name of Course (Subject): Data Structures**

- 1) Learn about Data structures, its types and significance in computing
- 2) Explore about Abstract Data types and its implementation
- 3) Ability to program various applications using different data structure in Python

### **Name of Course (Subject): Calculus**

- 1) Understanding of Mathematical concepts like limit, continuity, derivative, integration of functions.
- 2) Ability to appreciate real world applications which uses these concepts.
- 3) Skill to formulate a problem through Mathematical modeling and simulation.

### **Name of Course (Subject): Statistical Methods and Testing of Hypothesis**

- 1) Enable learners to know descriptive statistical concepts
- 2) Enable study of probability concept required for Computer learners

### **Name of Course (Subject): Green Technologies**

- 1) Learn about green IT can be achieved in and by hardware, software, network communication and data center operations.
- 2) Understand the strategies, frameworks, processes and management of green IT

## **SYBSc Semester III**

### **Name of Course (Subject): Theory of Computation**

- 1) Understand Grammar and Languages
- 2) Learn about Automata theory and its application in Language Design
- 3) Learn about Turing Machines and Pushdown Automata
- 4) Understand Linear Bound Automata and its applications.

### **Name of Course (Subject): Core Java**

- 1) Object oriented programming concepts using Java.
- 2) Knowledge of input, its processing and getting suitable output.
- 3) Understand, design, implement and evaluate classes and applets.

4) Knowledge and implementation of AWT package.

**Name of Course (Subject): Operation System**

- 1) To provide a understanding of operating system, its structures and functioning
- 2) Develop and master understanding of algorithms used by operating systems for various purposes

**Name of Course (Subject): Database Management System**

- 1) Master concepts of stored procedure and triggers and its use.
- 2) Learn about using PL/SQL for data management
- 3) Understand concepts and implementations of transaction management and crash recovery

**Name of Course (Subject): Combinatorics and Graph Theory**

- 1) Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings.
- 2) Understand the combinatorial features in real world situations and Computer Science applications.
- 3) Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems.

**Name of Course (Subject): Physical Computing and IOT programming**

- 1) Enable learners to understand System On Chip Architectures.
- 2) Introduction and preparing Raspberry Pi with hardware and installation.
- 3) Learn physical interfaces and electronics of Raspberry Pi and program them using practical's
- 4) Learn how to make consumer grade IoT safe and secure with proper use of protocols.

**Name of Course (Subject): Web Programming**

- 1) To design valid, well-formed, scalable, and meaningful pages using emerging technologies.
- 2) Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
- 3) To develop and implement client-side and server-side scripting language programs.
- 4) To develop and implement Database Driven Websites.
- 5) Design and apply XML to create a markup language for data and document centric applications.

**SYBSc Semester IV**

**Name of Course (Subject): Fundamentals of Algorithms**

- 1) Understand the concepts of algorithms for designing good program
- 2) Implement algorithms using Python

**Name of Course (Subject): Advance Java**

- 1) Understand the concepts related to Java Technology
- 2) Explore and understand the use of Java Server Programming

**Name of Course (Subject): Computer Networks**

- 1) Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'.
- 2) Useful to proceed with industrial requirements and International vendor certifications.

**Name of Course (Subject): Software Engineering**

- 1) To practically be able to apply the principles of software design and development
- 2) To learn some tools used in the development of a software.

**Name of Course (Subject): Linear Algebra with Python**

- 1) Appreciate the relevance of linear algebra in the field of computer science.
- 2) Understand the concepts through program implementation
- 3) Instill a computational thinking while learning linear algebra.

**Name of Course (Subject): .NET Technologies**

- 1) Understand the .NET framework
- 2) Develop a proficiency in the C# programming language
- 3) Proficiently develop ASP.NET web applications using C#
- 4) Use ADO.NET for data persistence in a web application

**Name of Course (Subject): Android Development Fundamentals**

- 1) Understand the requirements of Mobile programming environment.
- 2) Learn about basic methods, tools and techniques for developing Apps
- 3) Explore and practice App development on Android Platform
- 4) Develop working prototypes of working systems for various uses in daily lives.

**TYBSc Semester V**

**Name of Course (Subject): Artificial Intelligence**

After completion of this course, learner should get a clear understanding of AI and different search algorithms used for solving problems. The learner should also get acquainted with different learning algorithms and models used in machine learning.

**Name of Course (Subject): Linux Server Administration**

Learner will be able to develop Linux based systems and maintain. Learner will be able to install appropriate service on Linux server as per requirement. Learner will have proficiency in Linux server administration.

**Name of Course (Subject): Information and Network Security**

Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application.

**Name of Course (Subject): Architecting of IoT**

Learners are able to design & develop IoT Devices. They should also be aware of the evolving world of M2M Communications and IoT analytics.

**Name of Course (Subject): Game Programming**

Learner should study Graphics and gaming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn.

**TYBSc Semester VI**

After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.

**Name of Course (Subject): Cyber Forensics**

The student will be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.

**Name of Course (Subject): Digital Image Processing**

Learner should review the fundamental concepts of a digital image processing system. Analyze the images in the frequency domain using various transforms. Evaluate the techniques for image enhancement and image segmentation. Apply various compression techniques. They will be familiar with basic image processing techniques for solving real problems.

**Name of Course (Subject): Data Science**

After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted.

**Name of Course (Subject): Ethical Hacking**

Learner will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.

# INFORMATION TECHNOLOGY

## **FYBSc Semester I**

- 1) Students should be able to write, compile and debug programs in C language.
- 2) Students should be able to use different data types in a computer program.
- 3) Students should be able to design programs involving decision structures, loops and functions.
- 4) Students should be able to explain the difference between call by value and call by reference
- 5) Students should be able to understand the dynamics of memory by the use of pointers.
- 6) Students should be able to use different data structures and create/update basic data files.

### **Name of Course (Subject): Digital Electronics**

#### **Expected learning outcomes:**

- 1) To provide a understanding of operating system, its structures and functioning
- 2) Develop and master understanding of algorithms used by operating systems for various purposes

### **Name of Course (Subject): Discrete Mathematics**

- 1) To provide overview of theory of discrete objects, starting with relations and partially ordered sets.
- 2) Study about recurrence relations, generating function and operations on them.
- 3) Give an understanding of graphs and trees, which are widely used in software.
- 4) Provide basic knowledge about models of automata theory and the corresponding formal languages.

### **Name of Course (Subject): Communication Skills**

- 1) To know about various aspects of soft skills and learn ways to develop personality
- 2) Understand the importance and type of communication in personal and professional environment.
- 3) To provide insight into much needed technical and non-technical qualities in career planning.
- 4) Learn about Leadership, team building, decision making and stress management.

## **FYBSc Semester II**

### **Name of Course (Subject): Object Oriented Programming**

- 1) To learn about how computer systems work and underlying principles
- 2) To understand the basics of digital electronics needed for computers
- 3) To understand the basics of instruction set architecture for reduced and complex instruction sets
- 4) To understand the basics of processor structure and operation
- 5) To understand how data is transferred between the processor and I/O devices.

### **Name of Course (Subject): Web Programming**

- 1) To design valid, well-formed, scalable, and meaningful pages using emerging technologies.
- 2) Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
- 3) To develop and implement client-side and server-side scripting language programs.
- 4) To develop and implement Database Driven Websites.
- 5) Design and apply XML to create a markup language for data and document centric applications.

### **Name of Course (Subject): Numerical and Statistical Methods**

- 1) Enable learners to know descriptive statistical concepts
- 2) Enable study of probability concept required for Computer learners.

### **Name of Course (Subject): Green Computing**

- 1) Learn about green IT can be achieved in and by hardware, software, network communication and data center operations.
- 2) Understand the strategies, frameworks, processes and management of green IT.

### **SYBSc Semester III**

#### **Name of Course (Subject): Python Programming**

- 1) Students should be able to understand the concepts of programming before actually starting to write programs.
- 2) Students should be able to develop logic for Problem Solving.
- 3) Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc.
- 4) Students should be able to apply the problem solving skills using syntactically simple language i.e. Python (version: 3.X or higher)

#### **Name of Course (Subject): Computer Networks**

- 1) Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'.
- 2) Useful to proceed with industrial requirements and International vendor certifications.

#### **Name of Course (Subject): Data Structures**

- 1) Learn about Data structures, its types and significance in computing
- 2) Explore about Abstract Data types and its implementation
- 3) Ability to program various applications using different data structure in Python/C++/C.

#### **Name of Course (Subject): Applied Mathematics - I**

- 1) Understanding of Mathematical concepts like limit, continuity, derivative, integration of functions.
- 2) Ability to appreciate real world applications which uses these concepts.
- 3) Skill to formulate a problem through Mathematical modeling and simulation.

#### **Name of Course (Subject): Database Management Systems**

- 1) Master concepts of stored procedure and triggers and its use.
- 2) Learn about using PL/SQL for data management
- 3) Understand concepts and implementations of transaction management and crash recovery.

### **SYBSc Semester IV**

#### **Name of Course (Subject): Core Java**

- 1) Object oriented programming concepts using Java.
- 2) Knowledge of input, its processing and getting suitable output.
- 3) Understand, design, implement and evaluate classes and applets.
- 4) Knowledge and implementation of AWT package.

#### **Name of Course (Subject): Introduction to Embedded Systems**

- 1) To teach the scientific principles underlying the software design and development.

#### **Name of Course (Subject): Computer Oriented Statistical Techniques**

- 1) Enable learners to know descriptive statistical concepts
- 2) Enable study of probability concept required for Computer learners.

#### **Name of Course (Subject): Software Engineering**

- 1) To practically be able to apply the principles of software design and development
- 2) To learn some tools used in the development of a software.

#### **Name of Course (Subject): Computer Graphics and Animation**

- 1) To make learners proficient in computer graphics and animation.

## **TYBSc Semester V**

### **Name of Course (Subject): Software Project Management**

1) To enable the learners to discover the interconnection and integration of the physical world.

### **Name of Course (Subject): Internet of Things**

1) Learners are able to design & develop IoT Devices.

2) They should also be aware of the evolving world of M2M Communications and IoT analytics.

### **Name of Course (Subject): Advance Web Programming**

1) Understand the .NET framework

2) Develop a proficiency in the C# programming language

3) Proficiently develop ASP.NET web applications using C#

4) Use ADO.NET for data persistence in a web application.

### **Name of Course (Subject): Linux System Administration**

Learner will be able to develop Linux based systems and maintain. Learner will be able to install appropriate service on Linux server as per requirement. Learner will have proficiency in Linux server administration.

### **Name of Course (Subject): Enterprise Java**

1) To make learner proficient in Java

## **TYBSc Semester VI**

### **Name of Course (Subject): Software Quality Assurance**

To provide students with knowledge of basic concepts of computer security including network security and cryptography.

### **Name of Course (Subject): Security In Computing**

Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application.

### **Name of Course (Subject): Business Intelligence**

1) To introduce and enhance the knowledge of the learners about Business Intelligence.

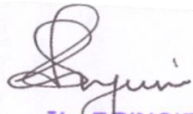
### **Name of Course (Subject): Geographical Information Systems**

1) To make learners efficient in geographical information system

### **Name of Course (Subject): Cyber Laws**

1) To enhance the learner's knowledge about Cyber Laws



  
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## **Program Outcome 2022-23**

- **Department – Hospitality Studies**
- **Course: B. Sc. Hospitality Studies**
- **University: Mumbai**
- **Course Outcome:**
  - ❖ Develop a strong foundation in hospitality management principles, including operations, marketing, and finance.
  - ❖ Gain a deep understanding of the various sectors within the hospitality industry, such as hotels, restaurants, event management, and tourism.
  - ❖ Acquire skills in customer service, guest relations, and effective communication within a hospitality context.
  - ❖ Learn to manage and lead teams in a hospitality setting, including training and supervising staff.
  - ❖ Understand the importance of quality and service excellence in the industry and how to maintain high standards.
  - ❖ Explore the legal, ethical, and sustainability aspects of the hospitality industry.
  - ❖ Develop proficiency in using industry-specific software and technology for reservations, property management, and marketing.
  - ❖ Gain practical experience through internships or work placements in hospitality businesses.
  - ❖ Enhance problem-solving and critical thinking skills, particularly in addressing real-world challenges in the industry.
  - ❖ Learn about global trends and emerging issues in the hospitality sector, such as the impact of technology and changing consumer preferences



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## Course Outcome 2022-23

### Semester 1

#### No of subjects – 7

1. Food Production and Patisserie I: USHO101
2. Food and Beverage I: USHO102
3. Front Office I: USHO103
4. Housekeeping I: USHO104
5. Communication Skills (English + French): USHO106
6. Information Technology: USHO107
7. Food Safety and Nutrition: USHO108

#### **1. Food Production and Patisserie I: USHO101**

- Students will learn about different levels of skills and experience in Kitchen, also they will get to understand the attitude and behavior which is required for kitchen.
- Students will learn the personal Hygiene and it's important for food handlers.
- Students will get to know the safety procedure for handling different kitchen Equipment.
- Students will learn and understand the different types of Equipment and hand tools used in kitchen with their usage and maintenance also with that they learn about various fuels with their advantages and disadvantages.
- Students will learn definition of stocks, Types of stocks, also preparation and storage of stock and while the preparation of that, what kind of care and precautions need to be taken.
- Students will learn different culinary terms.
- They will learn about the Classical kitchen Brigade, Modern staffing in different hotels, duties and responsibilities of different chefs, also the co-operation and Co- ordination between kitchen and other department.
- Students will learn the structure of Egg, they will get to understand how to select the Egg, Usages and Nutritive value of Egg.





## 2. **Food and Beverage I: USHO102**

- Understanding the basics on Food and beverage service-
- Understanding of the basic of food and beverage service, types of food and beverage sectors and various types of restaurants with its characteristics.
- Food and beverage hierarchy-
- Understanding of the hierarchy of food and beverage service department with roles and duties. Criteria for Selection of Various Equipment-
- Understanding various items to be considered like Furniture, Linen, Crockery, Cutlery
- Hollowware and Glassware.
- Auxiliary Areas-
- Understanding of the various types of Auxiliary areas used in food and beverage service with its uses and functions.
- Types of service-
- Understanding different types of service, with its characteristics and limitations.

## 3. **Front Office I: USHO103**

- Introduce the students to the Hotel & Tourism Industry
- Understand the appropriate organizational structures and duties in the Front Office and related departments.
- Develop, prepare guest relations and evaluate practical aspects of guests.
- Understanding the role of public relations in the hotel industry.
- Need and criteria for classification of hotels.
- Developing skills are required as an efficient and effective receptionist in any hotel (large or small) and to handle situations and types of guests in the job.
- Qualities of front office personnel
- Understanding the functioning of the Telecommunication department.
- Recognize the function of public relations in the hospitality sector.
- Create every feature needed to run the front office. Explains how coordination, planning, and planning are done at the front office.
- Specifies the cost of the room's tariff.
- Possible Demand Strategies can fulfill goals for departments



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#### 4. **Housekeeping I: USHO104**

- **Cleaning Techniques:** Understanding and mastering various cleaning methods, equipment, and products.
- **Safety and Hygiene:** Knowledge of safety protocols, proper chemical handling, and maintaining a hygienic environment.
- **Time Management:** Efficiently organizing and managing cleaning tasks within a given timeframe.
- **Communication:** Effective communication with team members and supervisors.
- **Attention to Detail:** Developing an eye for detail to ensure thorough cleaning and maintenance.
- **Problem Solving:** The ability to identify and resolve cleaning-related issues.
- **Guest Satisfaction:** Ensuring a pleasant and clean environment for guests in hospitality settings.
- **Sustainability:** Knowledge of eco-friendly cleaning practices and minimizing waste.
- **Organizational Skills:** Maintaining inventory, managing supplies, and organizing workspaces.
- **Adaptability:** Adapting to different settings and responding to changing cleaning needs

#### 5. **Communication Skills (English + French) : USHO106**

##### **English:**

- **Effective Communication:** \* Develop the ability to communicate clearly and effectively in both written and verbal forms.
- **Writing Skills:** \* Improve writing skills, including essay composition, letter writing, and report creation.
- **Spelling and Punctuation:** \* Master proper spelling and punctuation to ensure written work is accurate and clear.
- **Sentence Structure:** \* Learn how to construct grammatically correct and coherent sentences.
- **Vocabulary Enhancement:** \* Expand and enrich vocabulary to enhance writing and communication.



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## **French:**

"Students should be able to: -

- **Basic Communication:** Students should be able to introduce themselves, greet others, and engage in simple conversations in French.
- **Vocabulary:** Acquire a basic vocabulary related to everyday life, including numbers, colors, family members, food, and common objects.
- **Grammar:** Understand and use fundamental French grammar rules such as verb conjugation, gender, articles, and basic sentence structure.
- **Listening and Comprehension:** Be able to understand and respond to simple spoken French, like basic instructions or questions.
- **Reading:** Read and understand simple texts, signs, and short passages in French.
- **Writing:** Write basic sentences and short paragraphs in French, often related to personal information and daily routines.

## **6. Information Technology: USHO107**

- **Computer Literacy:** Students should gain a fundamental understanding of computer hardware, software, and basic operating systems.
- **Digital Skills:** Develop practical digital skills, including using word processing, spreadsheet, and presentation software.
- **Internet and Email:** Understand how to browse the internet safely, search for information, and send/receive emails.
- **File Management:** Learn to organize, save, and retrieve files effectively on a computer.  
**Information Retrieval:** Develop skills for searching, evaluating, and citing information from online sources.
- **Hardware and Software Troubleshooting:** Understand how to diagnose and solve basic computer and software issues.



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## 7. Food Safety and Nutrition: USHO108

- Understand the fundamentals of macronutrients (carbohydrates, proteins, and fats) and micronutrients (vitamins and minerals).
- Comprehend the importance of a balanced diet for overall health and well-being.
- Identify dietary sources of essential nutrients.
- Recognize potential food safety hazards, such as pathogens, toxins, and contaminants.
- Understand the principles of safe food handling, storage, and preparation.
- Follow hygiene and sanitation practices in the kitchen.
- Be familiar with national and international dietary guidelines, such as the Dietary Guidelines for Americans or the Mediterranean Diet.
- Know how to interpret and apply dietary recommendations for various age groups and health conditions.
- Develop skills in meal planning, including creating balanced and nutritious menus.
- Make informed food choices based on nutritional content and dietary goals.
- Understand the dietary requirements for different populations, such as children, pregnant women, the elderly, and individuals with specific health conditions.
- Learn to accommodate special dietary needs and preferences, including vegetarian, vegan, and gluten-free diets.
- Interpret nutrition labels on food products to make informed choices.
- Identify common additives and allergens in food labels.
- Recognize the symptoms of foodborne illnesses.
- Know the causes and risk factors associated with foodborne diseases.
- Implement proper food safety practices to prevent foodborne illness.
- Assess individual nutritional needs and evaluate dietary habits.
- Understand the tools and methods used for nutritional assessment.



## **Semester 2**

### **No of subjects – 7**

1. Food Production and Patisserie II: USHO201
2. Food and Beverage II: USHO202
3. Front Office II: USHO203
4. Housekeeping II: USHO204
5. Communication Skills II: (English + French) USHO206
6. Principle of Hotel Accountancy: USHO207
7. Principle of Management: USHO208

#### **1. Food Production and Patisserie II: USHO201**

- "The students will understand the concept of kitchen Layout
- Students will learn about the different types of soups.
- Students will know about the cuts of fish and points to be considered when selecting fish.
- The students will learn the method of processing poultry.
- The students will know the composition of rice, cereals and pulses.
- The students will get knowledge about the processing of meat.

#### **2. Food and Beverage II: USHO202**

- Understanding menu and various types of menus with breakfast and Highland menu.
- Understanding 17 course French classical menu with accompaniments and types of Ice creams.
- Understanding various types of cigars and cigarette with its composition, methods and brands.
- Understanding various types of non-alcoholic beverages with types and examples.
- Understanding various types of KOT and methods of billing.
- Understanding service of non-alcoholic beverages like Tea, Coffee and aerated beverages with its setup and accompaniment.





### **3. Front Office II: USHO203**

- The student should be able to understand the concept and functioning of room reservations, Reception and Guest services.
- Stages of guest cycle such as pre arrival, arrival, stay, departure and post arrival
- Sources of Reservations
- Reservation Methods
- Reservation Types
- Reservation Systems,
- Overbooking
- Job Descriptions for Reservation Staff
- Importance of reservation

### **4. Housekeeping II: USHO204**

- Students will gain proficiency in various cleaning methods, such as dusting, sweeping, mopping, and disinfection, tailored to different surfaces and spaces.
- Understanding safety protocols, proper chemical handling, and the importance of maintaining high standards of cleanliness and hygiene to create safe and healthy environments.
- Learning to use and maintain cleaning equipment, tools, and products effectively, including vacuum cleaners, floor machines, and cleaning agents.
- Developing skills to manage time efficiently and prioritize cleaning tasks to meet schedules and deadlines.
- Understanding how to maintain and order cleaning supplies, equipment, and consumables efficiently.
- Developing effective communication and interpersonal skills to interact with clients or guests, understand their needs, and address concerns professionally.
- Acquiring the ability to identify and resolve cleaning-related challenges, such as stains, spills, and persistent dirt.
- Learning to adapt to different cleaning requirements and environments, as housekeeping standards can vary across settings like hotels, resorts, and private residences.



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## 5. Communication Skills II: (English + French) USHO206

- Identify various communication models and theories.
- Analyze the role of communication in the functioning of organizations.
- Describe the different types of communication channels within an organization.
- Evaluate the impact of effective organizational communication on productivity and morale.
- Demonstrate the ability to write clear and concise business emails and memos.
- Create persuasive business proposals and reports.
- Attain a high level of fluency and proficiency in speaking, listening, reading, and writing in French.
- Gain an in-depth understanding of French culture, including history, literature, art, and contemporary society.
- Master advanced grammar structures and expand your vocabulary to be able to express complex ideas and opinions.
- Develop the ability to translate written and spoken French into your native language and vice versa, and to interpret spoken language accurately.
- Analyze and interpret French literary works, possibly from different time periods and genres.
- Be able to engage in debates, discussions, and presentations on various topics in French
- Be able to use your language skills in professional and academic settings, such as writing research papers, business correspondence, or giving presentations in French. - Interpret non-verbal cues and cultural nuances in a business context.
- Develop structured and well-organized business reports.
- Utilize appropriate formatting, headings, and visuals in reports.
- Critically review and edit reports for clarity and coherence.
- Participate effectively in group discussions and meetings.
- Facilitate group communication, ensuring all members are engaged
- Resolve conflicts and reach consensus within a group setting.



## **6. Principle of Hotel Accountancy: USHO207**

- Students should grasp the fundamental principles of accounting, such as the double-entry system, accrual accounting, and consistency in financial reporting.
- Learning to record various financial transactions accurately, including journal entries, ledger posting, and trial balances.
- The ability to prepare financial statements, including the income statement, balance sheet, and cash flow statement.
- Understanding the unique accounting aspects of partnerships and corporations, including profit sharing, stockholders' equity, and dividends.
- Basic knowledge of cost accounting principles, including costing methods and the analysis of cost behavior.

## **7. Principle of Management: USHO208**

- Understanding Management Concepts: Students should be able to explain and comprehend fundamental management concepts, theories, and principles.
- Demonstrate the ability to apply the four key functions of management – planning, organizing, leading, and controlling – in various organizational contexts.
- Develop decision-making skills by analyzing case studies and real-world scenarios to make informed managerial choices.
- Improve communication skills, especially in the context of management, to convey ideas, delegate tasks, and lead teams effectively.
- Learn to identify and solve management-related problems and challenges through critical thinking and analysis.
- Understand leadership styles, theories, and approaches and apply them to motivate and guide individuals or teams.
- Demonstrate the ability to work effectively in teams and understand the dynamics of group decision-making.





## **Semester 3**

### **No of subjects – 7**

1. Food Production and Patisserie III: USHO301
2. Food and Beverage III: USHO 302
3. Front Office III: USHO 303
4. Housekeeping III: USHO 304
5. Hotel Accountancy and Cost Control: USHO 306
6. Hotel Accountancy and Cost Control: USHO 306
7. Management information system in hospitality industry: USHO308

### **1. Food Production and Patisserie III: USHO301**

- Understand the basic concept of volume operation.
- Different kinds of metals and their alloys are used in the manufacturing of kitchen equipment.
- Know what a menu is and understand its importance
- Various types of menus and requirements
- Comprehends the various kinds of catering establishment
- Realize the concept of institutional and industrial catering
- Understanding the basic principles of indenting for volume feeding
- Learn about the purchase system and the importance of specifications. Different terms that are used in the kitchen
- The key terms of various terms and their history
- Importance of historical background and geographical location in regional cuisine"



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## **2. Food and Beverage III : USHO 302**

- Understanding different types of wine, regions, grape varieties, and pairing wine with food.
- Learning how to set and decorate tables, serve and clear dishes, and interact with customers professionally.
- Developing the ability to recommend and pair wines with specific dishes to enhance the dining experience.
- Improving communication and interpersonal skills to provide exceptional service and handle customer inquiries and concerns.
- Mastering the art of presenting and pouring wine, including proper glassware and techniques.
- Familiarity with the menu, its components, and the ability to describe dishes and wine offerings to customers.
- Understanding and following food safety and hygiene protocols to ensure a safe dining experience.
- Learning how to suggest additional items or wine selections to increase sales.
- The ability to adapt to different dining environments, from casual to fine dining.
- Working effectively as part of a restaurant team to provide seamless service."

## **3. Front Office III: USHO 303**

- The students will learn and experience advance guest cycle.
- They will know how to handle reservations, taking check-ins, assigning rooms.
- The student will learn to handle single lady travelers, senior citizen, and disable guest coming to the hotel.
- Students will have role plays on situations and handling situations, like handling complains.
- They will in brief learn PMS where the students will know different accounting systems.
- They will learn different formats and their use like folios, vouchers, city ledgers and different guest accounts.
- The students will also learn Departure procedure and how will one settle a guest account.



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- They will know the billing procedure which is the last phase of guest cycle and learn about foreign exchange, bill to company, traveler's cheque, etc.
- The students will also learn about security in the hotel, fire system, electronic locking system, and its importance.
- Lastly they will learn about night auditor, his/her duties and responsibilities and who can be a night auditor.

#### **4. Housekeeping III: USHO 304**

- Learning about various laundry equipment and their functions, such as washing machines, dryers, and ironing machines.
- Developing skills to maintain and track linen inventory to ensure an adequate supply for guest rooms and other hotel areas.
- Learning the processes involved in sorting, washing, drying, ironing, and folding linens while maintaining quality standards.
- Acquiring knowledge of effective stain removal techniques to maintain the cleanliness and appearance of linens.
- Understanding the proper handling and storage of linens to prolong their lifespan and quality.
- Implementing quality control measures to ensure that all linens meet the hotel's cleanliness and presentation standards.
- Emphasizing safety protocols and hygiene standards to protect both staff and guests while handling laundry.
- Incorporating eco-friendly practices in laundry operations, such as water and energy conservation.
- Learning to manage laundry operations efficiently to control costs and maximize the hotel's profit margins.
- Recognizing the direct impact of clean and well-maintained linens on guest satisfaction and the hotel's reputation.



**5. Hotel Accountancy and Cost Control: USHO 306**

- Students will know different types of companies, its important documents. Shares, different types of shares. Debentures, different types of debentures.
- Students will know how to prepare trading account, profit and loss account and balance sheet as per company account.
- students will know uniform system account and they will able to prepare uniform system of account. They will able to do interpretation on vertical income statement prepares as per uniform system.
- Students will know what is standard costing and able to solve material cost and labor cost variances.
- students will know what is food and beverage cost control. Different technique of food and beverage cost control and its format.
- Students will know different records which are maintain for guest charges and modes of payments.
- students will know what is auditing, difference between statutory audit and internal audit.
- Students will know what night audit in hotel is. Night auditors' duties and responsibility. Night auditors' reports.

**6. Hospitality Law and Human resource management: USHO307**

- Gain a solid understanding of fundamental HRM concepts, including recruitment, selection, training, and performance management.
- Learn effective strategies for recruiting and selecting the right talent to meet organizational goals.
- Explore methods for training, development, and performance appraisal to enhance employee skills and performance.
- Understand how to design and manage compensation and benefits packages that attract and retain employees.
- Learn how to manage employee relations, conflicts, and grievances effectively.



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- Recognize the strategic role of HRM in achieving organizational objectives and competitive advantage.
- Explore strategies to promote diversity and inclusion within the workplace.
- Develop the ability to analyze HRM case studies and apply theoretical knowledge to real-world scenarios.
- Learn how to ensure compliance with various laws, including food safety, alcohol licensing, labor, and employment laws.
- Liability and risk management: Understand the potential legal liabilities and risks in the hospitality industry and how to mitigate them.
- Learn about contract law, including agreements with vendors, employees, and customers.
- Understand how intellectual property laws, such as trademarks and copyrights, apply to the hospitality sector.
- Develop skills to handle legal issues that may arise in guest interactions, such as disputes or privacy concerns.
- Analyze real-life legal cases and scenarios within the hospitality industry to apply legal concepts to practical situations.
- Familiarize yourself with the various government agencies that regulate the hospitality sector.
- Be able to assess potential legal risks and develop strategies to minimize legal challenges."

## **7. Management information system in hospitality industry: USHO308**

- To give the student the knowledge they need to comprehend both the theoretical and practical facets of how a hotel's systems department operates, with an emphasis on their ability to work with Property Management Systems software.
- To find out Selecting and Implementing Computer systems
- Evaluating the present information requirements as per hotel standards
- To find out Room Management and Guest Accounting Applications
- To evaluate Point of Sale Technologies • POS Order entry units
- Managing Guest Accounts
- To find out Food & Beverage Management Applications • Recipe Management • Sales Analysis • Menu Management
- Reservation Systems • E-Distribution systems • Intercell agencies • Central Reservation Systems • Property Level Reservation systems • Reservations through the internet
- Managing multi-processor environments for the hotel industry





## **Semester 4**

### **Industrial Training for 20 weeks: USHO401**

- "1. Develop an awareness of the various career opportunities and options within the hospitality industry.
2. Understand the importance of outstanding guest-service quality, server-guest relationships and ethics.
3. Experience a ""real life"" experience in the hospitality industry.
4. Demonstrate the skills and behaviors required during customer involvement to analyze, judge and act in ways that contribute to customer satisfaction.
5. Explain the application of technology in various hospitality industry segments and in different organizational functional areas.
6. Demonstrate knowledge of and experience in operations relative to the provision of goods and services in hospitality management.
7. Describe physical and perpetual inventory systems.
8. Acquire knowledge of a global perspective and diversity issues as related to hospitality management.
9. Evaluate the economic, social and/or environmental impacts of hospitality business practices on the local communities in which they operate."



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## Semester 5

### No of subjects – 7

1. Food Production and Patisserie: USHO501
2. Food and Beverage Operation Management: USHO502
3. Front Office (16): USHO 503
4. Housekeeping: USHO504
5. Corporate English: USHO506
6. Environmental and Sustainable Tourism: USHO507

#### 1. Food Production and Patisserie: USHO501

- Students will revise the basic knowledge of various topics of international cuisine i.e., stocks, soups, sauces, cuts of meat, fish and poultry.
- Students will learn the latest new techniques and process being used in kitchens worldwide.
- Students will understand the complete layout and operations of garde manger (larder department /cold kitchen).
- They will learn the importance of the larder department, control of perishable foods stored and prepared in the larder department.
- The students will learn the various tools and equipment's used in the larder department along with the duties and responsibilities of the various chef in charges of different section.
- Students will understand the basic concepts of yield testing in cost control and portion control.
- They will be introduced to the term charcuterie and will also learn in details the various procedure of preparing and storage of various charcuterie products such as; forcemeats, sausages galantine, ballotine pates, terrines, mousse and mousseline, jelly, aspic jelly and aspic, ham bacon and gammon.
- They will learn the manufacturing process of cheese along with its uses and their country of origin
- Students will learn at least 50 different culinary terms used in French internationally and their meanings in English.



## 2. **Food and Beverage Operation Management: USHO502**

- Ability to create diverse and appealing menus for different events and dining settings.
- Understanding of menu engineering to optimize profitability and customer satisfaction.
- Knowledge of food safety regulations and practices to ensure safe food handling.
- Implementing proper hygiene and sanitation measures in food preparation and service.
- Proficiency in planning and organizing catering events, including scheduling, staffing, and equipment requirements.
- Efficient management of food preparation and delivery.
- Developing strong customer service skills for handling guest inquiries and resolving issues.
- Enhancing the customer experience in both buffet and F&B outlet settings.
- Understanding financial aspects, such as cost analysis, pricing, and budgeting.
- Controlling costs while maintaining quality in catering and F&B operations.
- Knowledge of wine, beer, and cocktail selection and service.
- Creating beverage programs that complement food offerings.

## 3. **Front Office (16): USHO 503**

- The students will be learning the intense Operations of Front office.
- They will be understanding functions of management like planning, organizing, coordinating, staffing, leading, controlling and evaluating.
- They will learn different methods of pricing rooms, rule of thumb, and Hubbert's formula.
- The students will also revise special room rates like corporate, group, promotional, incentive, family, and complimentary and package rates.
- They will in brief learn forecasting room availability in which they will know percentage of no show, % of cancellation, % of walk in, overstay and under stay.





#### 4. **Housekeeping: USHO504**

- The students will understand the concept of interior design
- They will be able to identify various color schemes
- They will know various windows and the importance of the same.
- The students will know the role of lighting and identify types of lighting
- The students will know the latest trends in housekeeping
- The students would know the advantages and disadvantages of going for contract services.
- The students will observe the staff planning and calculation
- They will understand the role of duty roster
- The students will know the role of wall covering and floors and carpets.
- Role of cleaning and maintaining carpets and floors"

#### 5. **Corporate English: USHO506**

- Develop the ability to communicate clearly and professionally in written and spoken English within a business context.
- Enhance skills in writing emails, reports, memos, and other business documents.
- Improve the ability to create and deliver effective business presentations in English.
- Expand knowledge of business-specific vocabulary and terminology.
- Understand and navigate cultural differences in business communication.
- Learn techniques for negotiating and persuading in a corporate setting.
- Acquire knowledge of proper etiquette and norms in corporate environments.
- Develop active listening skills for effective communication with colleagues, clients, and stakeholders.
- Apply language skills to analyze and solve business-related problems.



## 6. Environmental and Sustainable Tourism: USHO507

- Students should be able to explain the core principles and concepts of sustainable tourism, including the triple bottom line approach (economic, social, and environmental aspects).
- Students should be capable of conducting environmental impact assessments for tourism projects and identifying potential impacts on ecosystems, biodiversity, and local communities.
- Learners should be able to identify and promote sustainable practices within the tourism industry, such as eco-friendly accommodations, responsible wildlife viewing, and energy-efficient transportation.
- Students should develop an understanding of the cultural and social aspects of tourism, respecting local traditions and engaging with communities in a culturally sensitive manner.
- Learners should be able to assess the economic benefits and challenges of sustainable tourism for both host communities and businesses.
- Students should understand the role of government policies and international regulations in promoting sustainable tourism and be able to analyze their effectiveness.
- Analyzing real-world case studies can help students apply theoretical knowledge to practical situations and make informed decisions in the tourism industry.
- Developing the skills to effectively communicate the benefits of sustainable tourism to various stakeholders, including tourists, local communities, and businesses.
- Students should be able to use relevant metrics and indicators to measure the environmental and social impact of tourism initiatives and make recommendations for improvement.
- Understanding the ethical dilemmas in tourism, such as the tension between conservation and tourism development, and being able to propose ethical solutions"



## Semester 6

### No of subjects – 10

1. Organizational Behavior: USHO601
2. Strategic Management: USHO602
3. Event Planning and Marketing Management: USHO603
4. Advanced Food Production: USHO604(A)
5. Advanced Food and Beverage Operation Management: USHO604 (B)
6. Advanced Housekeeping USHO604 (C)
7. Advanced Front Office: USHO604 (D)
8. Advanced Bakery: USHO604 (E)
9. Service Marketing: USHO605 (C)
10. Financial Management: USHO605(D)

### 1. Organizational Behavior: USHO601

- Gain an understanding of how individuals and groups behave within organizations, including the impact of motivation, communication, and leadership on behavior.
- Develop the ability to make informed decisions related to managing people and addressing various organizational challenges.
- Learn to work effectively in teams, understanding group dynamics and conflict resolution.
- Develop leadership qualities and techniques for effective management and supervision of employees.
- Enhance communication skills to foster a positive organizational culture and resolve conflicts.
- Improve problem-solving skills to address issues related to diversity, ethics, and workplace challenges.
- Understand the influence of culture on organizational behavior and learn how to shape a desirable culture.
- Learn how to manage and adapt to organizational change.
- Understand the ethical implications of decisions within organizations and the social responsibility of businesses.
- Develop the ability to critically analyze and interpret research related to organizational behavior.



# RIZVI COLLEGE OF ARTS, SCIENCE & COMMERCE



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## **2. Strategic Management: USHO602**

- Gain a deep understanding of fundamental strategic management concepts, such as SWOT analysis, competitive advantage, and strategic planning.
- Develop the ability to analyze complex business situations, identify strategic issues, and formulate effective strategies.
- Learn how to assess the external and internal factors that can impact an organization's strategic decisions, including industry trends, market forces, and internal capabilities.
- Gain proficiency in formulating and evaluating strategic options for organizations, considering factors like differentiation, cost leadership, and focus strategies.
- Understand how to translate strategic plans into actionable initiatives, align organizational resources, and manage change effectively.
- Explore the role of leadership in strategy execution and how leaders can influence an organization's strategic direction.
- Study how organizations can create and sustain a competitive advantage in their respective industries.
- Consider the challenges and opportunities of global markets and how to develop international business strategies.
- Examine the ethical implications of strategic decisions and the social responsibility of organizations.
- Learn how to assess the effectiveness of implemented strategies through performance metrics and feedback mechanisms.



**3. Event Planning and Marketing Management: USHO603**

- "Students will know how to organize any events.
- Students will know how to raise capital or funds for the events.
- Students will know how to do marketing for the event which they are organizing.
- Students will know how manage the difficult situation which happen during the events
- Students will know how to work in groups and how to divide the duties and responsibility.
- Students will know how to do décor and designing.
- Overall, students develop the confidence of becoming entrepreneur."

**4. Advanced Food Production: USHO604(A)**

- Students should be proficient in advanced cooking techniques such as sous-vide, molecular gastronomy, and contemporary plating methods.
- Understanding how to create menus that balance taste, nutrition, and profitability, while considering current food trends.
- Knowledge of kitchen organization, staff management, inventory control, and food cost management.
- Mastery of food safety regulations and practices to maintain a safe and hygienic kitchen environment.
- Exploring international cuisines and understanding the cultural aspects of food preparation.
- Proficiency in advanced pastry and baking techniques, including creating intricate desserts and bread.
- Understanding how to cater to various dietary needs and restrictions, including vegetarian, vegan, gluten-free, and allergen-specific diets.
- Awareness of sustainable practices in the kitchen, including sourcing locally and reducing food waste.

**5. Advanced Food and Beverage Operation Management: USHO604 ((B)**

- Knowledge of beverage production, selection, and service, including wine, spirits, and non-alcoholic beverages.
- Understanding the importance of sustainable sourcing, reducing food waste, and environmentally responsible practices.
- Recognizing the cultural and ethical considerations in food and beverage, including respect for diverse food traditions and customs.
- Developing leadership and management skills for supervising kitchen and service staff, as well as managing operations effectively.





**6. Advanced Housekeeping: USHO604 (C)**

- The students can plan the Budget for the department.
- The importance of budget planning for the department and controlling the cost.
- The students will know the standard operating procedures.
- Role and importance of first aid and bandages
- The student can find out about fire safety and can classify fire.
- The students can identify the flowers and their role in hotels.
- Importance of learning about disaster management and how to deal with emergencies

**7. Advanced Front Office: USHO04 (D)**

- Develop the ability to provide excellent customer service, including handling inquiries, complaints, and requests.
- Enhance verbal and written communication skills, as well as non-verbal communication, to effectively interact with customers and colleagues.
- Understand the day-to-day operations of a front office, such as check-in and check-out procedures, reservations, and managing guest experiences.
- Gain proficiency in using front office software and systems for tasks like booking reservations, managing room inventory, and processing payments.
- Learn to resolve customer issues and address challenges that may arise in the front office.
- Understand strategies for optimizing room occupancy and pricing to maximize revenue.
- Acquire skills for supervising and coordinating front office staff, including training and scheduling.
- Be aware of industry-specific regulations and legal requirements, such as data protection and safety standards.
- Focus on creating positive guest experiences, managing feedback, and maintaining relationships with repeat customers.
- Develop basic financial literacy, including handling cash and managing financial transactions at the front desk.



### **8. Advanced Bakery: USHO604 (E)**

- Gain a deep understanding of fundamental strategic management concepts, such as SWOT analysis, competitive advantage, and strategic planning.
- Develop the ability to analyze complex business situations, identify strategic issues, and formulate effective strategies.
- Learn how to assess the external and internal factors that can impact an organization's strategic decisions, including industry trends, market forces, and internal capabilities.
- Gain proficiency in formulating and evaluating strategic options for organizations, considering factors like differentiation, cost leadership, and focus strategies.
- Understand how to translate strategic plans into actionable initiatives, align organizational resources, and manage change effectively.
- Explore the role of leadership in strategy execution and how leaders can influence an organization's strategic direction.
- Study how organizations can create and sustain a competitive advantage in their respective industries.
- Consider the challenges and opportunities of global markets and how to develop international business strategies.
- Examine the ethical implications of strategic decisions and the social responsibility of organizations.
- Learn how to assess the effectiveness of implemented strategies through performance metrics and feedback mechanisms.



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## **9. Service Marketing: USHO605C**

- Gain a solid understanding of the unique characteristics of services, including intangibility, inseparability, variability, and perishability.
- Learn how to measure and manage service quality and customer satisfaction to enhance the customer experience.
- Understand the extended marketing mix for services, which includes product, price, place, promotion, people, process, and physical evidence.
- Develop the ability to adopt a customer-centric approach to service marketing, focusing on understanding and meeting customer needs and preferences
- Learn how to differentiate services in a competitive market and create a unique market position.
- Explore the techniques for segmenting service markets and selecting target segments based on their needs and characteristics.
- Understand the importance of branding in services and how to build and manage strong service brands.
- Learn how to set prices for services, taking into account cost structures, perceived value, and pricing strategies.
- Develop skills in creating and executing marketing communication strategies specific to services, including advertising, public relations, and social media.

## **10. Financial Management USHO605 (D)**

- The student will understand the concept of financial management.
- Students will know how to evaluate capital investment on the basis of learning capital budgeting.
- Students will know how to prepare a cash budget for their department after learning about the cash budget.
- Students will be able to do interpretation of financial data after learning ratio analysis.
- Students will be able to prepare the working capital requirement of their department requirements after learning working capital.
- Students will know the difference between cash flow and fund flow.
- Students will know what franchising is and its advantages & disadvantages.
- students will know what leasing is, how to go for different leasing agreements and its merits and demerits