



Devrukh Shikshan Prasarak Mandal's

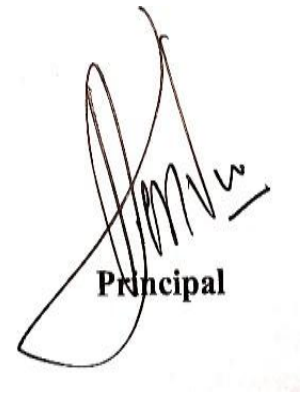
**Nya. Tatyasaheb Athalye Arts, Ved. S.R. Sapre Commerce and Vid.  
Dadasaheb Pitre Science College (Autonomous)** Late Kakasaheb Pandit  
Educational Campus,  
Devrukh, Dist: Ratnagiri- 415 804, Maharashtra  
NAAC Accredited 'A' Grade (Third Cycle), Mumbai University Best College Award 2009-10

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**2023-24**

## **Course Outcomes (COs) of the various Programmes**



  
**Principal**

**Course Outcomes**

**Faculty of Science & Computer Science**

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Botany     | FYBSc | USBOT11     | CO1    | Explain Occurrence, structure, reproduction of Nostoc, Spirogyra, Rhizopus, Aspergillus and Riccia   |
| Botany     | FYBSc |             | CO2    | Identify and classify Algae, Fungi and bryophytes on basis of general characters and principles of taxonomy  |
| Botany     | FYBSc |             | CO3    | Differentiate modes of nutrition in fungi  |
| Botany     | FYBSc |             | CO4    | Evaluate economic importance of algae, fungi and bryophytes  |
| Botany     | FYBSc |             | CO5    | Justify different stages in the life cycle of Nostoc, Spirogyra, Rhizopus, Aspergillus and Riccia  |
| Botany     | FYBSc | USBOT12     | CO1    | Define the Ecology, Ecosystem, multiple alleles  |
| Botany     | FYBSc |             | CO2    | Explain the type of cells with their differences, ultrastructure and function of Cell wall, plasma membrane, endoplasmic reticulum and chloroplast, Mendelian Genetics |
| Botany     | FYBSc |             | CO3    | Describe terrestrial and aquatic ecosystems, the basic principles of Genetics, epistatic and non-epistatic gene interactions   |
| Botany     | FYBSc |             | CO4    | Differentiate prokaryotic and eukaryotic cell, types of gene interaction, ecosystems   |
| Botany     | FYBSc |             | CO5    | Justify the Mendelian ratios, prokaryotic and eukaryotic cell, ecosystems  |
| Botany     | FYBSc | USBOT21     | CO1    | Explain Occurrence, structure, reproduction of Nephrolepis and Cycas   |
| Botany     | FYBSc |             | CO2    | Identify and classify Pteridophytes and gymnosperms on basis of general characters and principles of taxonomy  |
| Botany     | FYBSc |             | CO3    | Differentiate types of steles, inflorescences  |
| Botany     | FYBSc |             | CO4    | Evaluate economic importance of pteridophytes, gymnosperms and some families of angiosperms  |
| Botany     | FYBSc |             | CO5    | Justify different stages in the life cycle of Nephrolepis and Cycas  |
| Botany     | FYBSc |             | CO6    | Describe morphological features of root, stem, leaf, inflorescence, flower   |
| Botany     | FYBSc |             | CO7    | Discuss salient features of Malvaceae and Amarylidaceae family   |
| Botany     | FYBSc | USBOT22     | CO1    | Define tissue, photosynthesis, metabolites   |
| Botany     | FYBSc |             | CO2    | Explain different types of tissues in plants with their functions, concept of Primary and secondary metabolites with their differences in plants                       |
| Botany     | FYBSc |             | CO3    | Describe primary structure of dicot and monocot root, stem and leaf, light and dark reactions of photosynthesis  |
| Botany     | FYBSc |             | CO4    | Identify and describe epidermal tissue systems, plants used in Grandma's Pouch   |
| Botany     | FYBSc |             | CO5    | Justify the primary structure of dicot and monocot root, stem, leaf, primary and secondary metabolites   |
| Chemistry  | FYBSc | USCHT11     | CO1    | Will acquire knowledge regarding basic terms like Normality, Molarity and Mole fraction  |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Chemistry  | FYBSc |             | CO2    | Understand basics concepts of Thermodynamics   |
| Chemistry  | FYBSc |             | CO3    | Will be able to understand difference between atom and molecule  |
| Chemistry  | FYBSc |             | CO4    | Will learn Mechanism of organic reactions  |
| Chemistry  | FYBSc | USCHT12     | CO1    | learn Ideal Gas Laws   |
| Chemistry  | FYBSc |             | CO2    | will solve numerical related to Acid-Base Theories   |
| Chemistry  | FYBSc |             | CO3    | will be able understand stability and reactivity of reactive intermediates   |
| Chemistry  | FYBSc | USCHT21     | CO1    | Explain the basic concepts of chemical kinetics, solve the numerical problems  |
| Chemistry  | FYBSc |             | CO2    | To calculate the refractive index and viscosity of the liquid.   |
| Chemistry  | FYBSc |             | CO3    | To evaluate the chemistry of main group elements   |
| Chemistry  | FYBSc |             | CO4    | To explain the basic concepts of stereochemistry and draw the different projection formulae                            |
| Chemistry  | FYBSc | USCHT22     | CO1    | to explain and solve the problems of ionic equilibria  |
| Chemistry  | FYBSc |             | CO2    | To understand the basic concepts of molecular spectroscopy, lectromagnetic radiations.                                 |
| Chemistry  | FYBSc |             | CO3    | To explain the different types of bonds and molecular structure of the compounds.                                      |
| Chemistry  | FYBSc |             | CO4    | To differentiate between oxidation and reduction, write the recations.   |
| Chemistry  | FYBSc |             | CO5    | Explain the conformational analysis and distiguish the stability of different conformational structures of cyclohexane |
| Chemistry  | FYBSc |             | CO6    | Draw the electrophilic substitution reactions of heterocyclic compounds.   |
| Physics    | FYBSc | S101PHT     | CO1    | Revise the basic physical quantities, basics of determinants and their properties                                      |
| Physics    | FYBSc |             | CO2    | Explain fundamentals of functions, graphs & complex numbers  |
| Physics    | FYBSc |             | CO3    | Understand simple principles of fluid flow and the equations governing fluid dynamics                                  |
| Physics    | FYBSc |             | CO4    | Understand the concepts of lens system, diffraction and interference.  |
| Physics    | FYBSc |             | CO5    | Apply the laws of thermodynamics to formulate the relations necessary to analyse a thermodynamic process               |
| Physics    | FYBSc |             | CO6    | Explain the phenomena of simple harmonic motion and the properties of systems executing such motions                   |
| Physics    | FYBSc | S102PHT     | CO1    | Define basic concepts in electricity, magnetism, digital electronics and modern physics                                |
| Physics    | FYBSc |             | CO2    | Understand the number systems and inter-conversions  |
| Physics    | FYBSc |             | CO3    | Understand the basic concepts in electro/magnetostatics  |
| Physics    | FYBSc |             | CO4    | Solve the problems based on electro/magneto statics  |
| Physics    | FYBSc |             | CO5    | Explain the importance of Rutherford experiment & concept of atom  |
| Physics    | FYBSc |             | CO6    | Explain the basic concepts in modern physics   |
| Physics    | FYBSc | S103PHP     | CO1    | Know the concepts behind all the demo experiments  |
| Physics    | FYBSc |             | CO2    | Understand the proper way of plotting various graphs   |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Physics    | FYBSc |             | CO3    | Demonstrate the use of instruments like Vernier, Micrometer, Travelling Microscope etc.   |
| Physics    | FYBSc |             | CO4    | Complete all the listed experiments   |
| Physics    | FYBSc |             | CO5    | Explain the principle of each of the experiments  |
| Physics    | FYBSc | PHVS101     | CO1    | Know the concepts behind all the demo experiments   |
| Physics    | FYBSc |             | CO2    | Understand the proper way of plotting various graphs  |
| Physics    | FYBSc |             | CO3    | Demonstrate the use of instruments like Vernier, Micrometer, Travelling Microscope etc.   |
| Physics    | FYBSc |             | CO4    | Complete all the listed experiments   |
| Physics    | FYBSc |             | CO5    | Explain the principle of each of the experiments  |
| Physics    | FYBSc | PHOE101     | CO1    | Describe the relation between sports and science  |
| Physics    | FYBSc |             | CO2    | Understand importance of physics in sports  |
| Physics    | FYBSc |             | CO3    | Apply laws of physics in various sports activities  |
| Physics    | FYBSc |             | CO4    | Explain the components of diet  |
| Physics    | FYBSc |             | CO5    | Evaluate the correct exercises for desired training goals   |
| Physics    | FYBSc |             | CO6    | Create a balanced diet plan for a desired goal  |
| Physics    | FYBSc | S106PHT     | CO1    | Recall the knowledge of calculus, vectors, vector calculus.   |
| Physics    | FYBSc |             | CO2    | Understand the principles of elasticity through the study of Young Modulus, Bulk Modulus and modulus of rigidity.                           |
| Physics    | FYBSc |             | CO3    | Understand the real gas equations, Van der Waal equation of state, methods of cooling.  |
| Physics    | FYBSc |             | CO4    | Understand the spontaneous/stimulated emission of radiation, pumping, population inversion. Various types of LASERs and their applications. |
| Physics    | FYBSc |             | CO5    | Describe the concepts of total internal reflection, light propagation through fiber, use of fiber optics in various fields                  |
| Physics    | FYBSc |             | CO6    | Solve numerical problems related to the course content.   |
| Physics    | FYBSc | S107PHT     | CO1    | Understand the Ohms law, KCL and KVL  |
| Physics    | FYBSc |             | CO2    | Solve problems related to Thevenin's / Norton's theorem and LR, CR circuits   |
| Physics    | FYBSc |             | CO3    | Understand the basics of radioactivity and solve numerical problems related to it   |
| Physics    | FYBSc |             | CO4    | Understand various atomic models and concepts of Quantum mechanics  |
| Physics    | FYBSc |             | CO5    | Summarize the Semiconductor material characteristics and behavior of p-n junction   |
| Physics    | FYBSc |             | CO6    | Demonstrate the experiment of Bridge rectifier and Use of Transistor and its working  |
| Physics    | FYBSc | S108PHP     | CO1    | Know the concepts behind all the demo experiments   |
| Physics    | FYBSc |             | CO2    | Calculate the probable errors involved in the result  |
| Physics    | FYBSc |             | CO3    | Use all the basic instruments in the Physics laboratory   |
| Physics    | FYBSc |             | CO4    | Elaborate the principle of each experiment  |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Physics    | FYBSc |             | CO5    | Organize the experiments listed   |
| Physics    | FYBSc | PHOE102     | CO1    | Understand the meaning and types of E-wastes  |
| Physics    | FYBSc |             | CO2    | Understand health hazards & economic impact of e-waste  |
| Physics    | FYBSc |             | CO3    | Understand estimation of e-waste generation   |
| Physics    | FYBSc |             | CO4    | Explain contaminants associated with E-waste  |
| Physics    | FYBSc |             | CO5    | Explain public health issues related to E-waste   |
| Physics    | FYBSc | PHSE101     | CO1    | Recall concepts behind various instruments  |
| Physics    | FYBSc |             | CO2    | Understand probable errors involved in the result of experiments  |
| Physics    | FYBSc |             | CO3    | Demonstrate plotting various types of graphs  |
| Physics    | FYBSc |             | CO4    | Demonstrate measurement and testing of various components   |
| Physics    | FYBSc |             | CO5    | Demonstrate the use of digital multimeter   |
| Physics    | FYBSc |             | CO6    | Explain the basic concepts in modern physics  |
| Physics    | FYBSc | S103PHP     | CO1    | Know the concepts behind all the demo experiments   |
| Physics    | FYBSc |             | CO2    | Understand the proper way of plotting various graphs  |
| Physics    | FYBSc |             | CO3    | Demonstrate the use of instruments like Vernier, Micrometer, Travelling Microscope etc.                           |
| Physics    | FYBSc |             | CO4    | Complete all the listed experiments   |
| Physics    | FYBSc |             | CO5    | Explain the principle of each of the experiments  |
| Physics    | FYBSc | PHVS101     | CO1    | Know the concepts behind all the demo experiments   |
| Physics    | FYBSc |             | CO2    | Understand the proper way of plotting various graphs  |
| Physics    | FYBSc |             | CO3    | Demonstrate the use of instruments like Vernier, Micrometer, Travelling Microscope etc.                           |
| Physics    | FYBSc |             | CO4    | Complete all the listed experiments   |
| Physics    | FYBSc |             | CO5    | Explain the principle of each of the experiments  |
| Physics    | FYBSc | PHOE101     | CO1    | Describe the relation between sports and science  |
| Physics    | FYBSc |             | CO2    | Understand importance of physics in sports  |
| Physics    | FYBSc |             | CO3    | Apply laws of physics in various sports activities  |
| Physics    | FYBSc |             | CO4    | Explain the components of diet  |
| Physics    | FYBSc |             | CO5    | Evaluate the correct exercises for desired training goals   |
| Physics    | FYBSc |             | CO6    | Create a balanced diet plan for a desired goal  |
| Physics    | FYBSc | S106PHT     | CO1    | Recall the knowledge of calculus, vectors, vector calculus.   |
| Physics    | FYBSc |             | CO2    | Understand the principles of elasticity through the study of Young Modulus, Bulk Modulus and modulus of rigidity. |
| Physics    | FYBSc |             | CO3    | Understand the real gas equations, Van der Waal equation of state, methods of cooling.                            |

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| Physics     | FYBSc |             | CO5    | Describe the concepts of total internal reflection, light propagation through fiber, use of fiber optics in various fields                            |
| Physics     | FYBSc |             | CO6    | Solve numerical problems related to the course content.   |
| Physics     | FYBSc | S107PHT     | CO1    | Understand the Ohms law, KCL and KVL  |
| Physics     | FYBSc |             | CO2    | Solve problems related to Thevenin's / Norton's theorem and LR, CR circuits   |
| Physics     | FYBSc |             | CO3    | Understand the basics of radioactivity and solve numerical problems related to it   |
| Physics     | FYBSc |             | CO4    | Understand various atomic models and concepts of Quantum mechanics  |
| Physics     | FYBSc |             | CO5    | Summarize the Semiconductor material characteristics and behavior of p-n junction   |
| Physics     | FYBSc |             | CO6    | Demonstrate the experiment of Bridge rectifier and Use of Transistor and its working  |
| Physics     | FYBSc | S108PHP     | CO1    | Know the concepts behind all the demo experiments   |
| Physics     | FYBSc |             | CO2    | Calculate the probable errors involved in the result  |
| Physics     | FYBSc |             | CO3    | Use all the basic instruments in the Physics laboratory   |
| Physics     | FYBSc |             | CO4    | Elaborate the principle of each experiment  |
| Physics     | FYBSc |             | CO5    | Organize the experiments listed   |
| Physics     | FYBSc | PHOE102     | CO1    | Understand the meaning and types of E-wastes  |
| Physics     | FYBSc |             | CO2    | Understand health hazards & economic impact of e-waste  |
| Physics     | FYBSc |             | CO3    | Understand estimation of e-waste generation   |
| Physics     | FYBSc |             | CO4    | Explain contaminants associated with E-waste  |
| Physics     | FYBSc |             | CO5    | Explain public health issues related to E-waste   |
| Physics     | FYBSc | PHSE101     | CO1    | Recall concepts behind various instruments  |
| Physics     | FYBSc |             | CO2    | Understand probable errors involved in the result of experiments  |
| Physics     | FYBSc |             | CO3    | Demonstrate plotting various types of graphs  |
| Physics     | FYBSc |             | CO4    | Demonstrate measurement and testing of various components   |
| Physics     | FYBSc |             | CO5    | Demonstrate the use of digital multimeter   |
| Mathematics | FYBSc | S101MTT     | CO1    | Remember the fundamental properties of $\mathbb{R}$ , bounded sets, limit of function and derivative of functions                                     |
| Mathematics | FYBSc |             | CO2    | Understand the AM-GM inequality, Cauchy-Schwarz inequality, Algebraic properties of limits, Intermediate value property and higher order derivatives. |
| Mathematics | FYBSc |             | CO3    | Apply the intermediate value theorems and Archimedean property  |
| Mathematics | FYBSc | S102MTT     | CO1    | Remember the fundamental concepts of sequence, series and maxima and minima of a function.  |
| Mathematics | FYBSc |             | CO2    | Understand convergence and divergence of a sequence and series, and mean value theorems   |

| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Mathematics      | FYBSc |             | CO3    | Apply tests for maxima and minima to find extreme values and L'Hospital rule.  |
| Mathematics      | FYBSc | S102MTT     | CO1    | Remember the concept of matrices , Parametric Equation of Lines and Planes , System of homogeneous and non homogeneous linear Equations                      |
| Mathematics      | FYBSc |             | CO2    | Understand Elementary row operations , row echelon matrix, Gaussian elimination method.  |
| Mathematics      | FYBSc |             | CO3    | Concept of linearly dependent & independent vectors in vector space, basis and dimension and linear transformation.  |
| Mathematics      | FYBSc | MTVS101     | CO1    | Remember basic concept of Demand, Supply, Total Revenue, Interest, Share.  |
| Mathematics      | FYBSc |             | CO2    | Understand the basics derivative of a function, Annuity, dividend and NAV  |
| Mathematics      | FYBSc |             | CO3    | Apply differentiation to solve problems areas in economics and business.   |
| Mathematics      | FYBSc |             | CO4    | Analyse and demonstrate the mathematical skill require in mathematically intensive areas in economics and business.  |
| Mathematics      | FYBSc | MTVS102     | CO1    | Learn the concept of shares and mutual funds and its applications  |
| Mathematics      | FYBSc |             | CO2    | Learn about Percentage, Ratios , Proportion and solve problems on it.  |
| Mathematics      | FYBSc |             | CO3    | Understand the concept Interest & solve problems on it.  |
| Mathematics      | FYBSc |             | CO4    | Apply the concept of Annuity and its application to business problems.   |
| Mathematics      | FYBSc | MTOE102     | CO1    | Remember the concepts of functions, Relations, Recurrence Relations, Permutations and Combinations, Graphs and Trees.  |
| Mathematics      | FYBSc |             | CO2    | Understand the bijective functions, Pigeonhole Principle Inclusion Exclusion Principle, algorithms on graphs traversing binary trees, binary search tree     |
| Mathematics      | FYBSc |             | CO3    | Apply the methods to solve Recurrence Relations, Algorithms for searching and inserting in binary search trees   |
| Mathematics      | FYBSc | MTOE104     | CO1    | Remember the concepts of Data types, Data presentation, raw moments, central moments, Random experiment, sample space, events types and operations of events |
| Mathematics      | FYBSc |             | CO2    | Understand the concepts of Measures of Central tendency, Measures dispersion and Correlation and Regression  |
| Mathematics      | FYBSc |             | CO3    | Apply the Conditional probability and Bayes' theorem to solve problems   |
| Computer Science | FYBSc | S101CST     | CO1    | Students will be able to write, compile and debug programs in C language.  |
| Computer Science | FYBSc |             | CO2    | Students will be able to use different data types in a computer program, design programs involving decision structures, loops and functions                  |
| Computer Science | FYBSc |             | CO3    | Students will be able to explain the difference between call by value and call by reference  |
| Computer Science | FYBSc |             | CO4    | Students will be able to understand the dynamics of memory by the use of pointers and use different data structures and create / update basic data files.    |
| Computer Science | FYBSc | S102CST     | CO1    | To design valid, well-formed, scalable, and meaningful pages using emerging technologies.  |

| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Computer Science | FYBSc |             | CO2    | Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites                                     |
| Computer Science | FYBSc |             | CO3    | To develop and implement client-side and server-side scripting language programs.  |
| Computer Science | FYBSc |             | CO4    | To develop and implement Database Driven Websites. Design and apply XML to create a mark-up language for data and document centric applications. |
| Computer Science | FYBSc | S103CSP     | CO1    | Perform basic programming practical on computer  |
| Computer Science | FYBSc |             | CO2    | Apply accurate logic regarding problem   |
| Computer Science | FYBSc |             | CO3    | analyse Programming problems   |
| Computer Science | FYBSc |             | CO4    | Handle Critical programming task   |
| Computer Science | FYBSc | CSOE101     | CO1    | Student will understand the working of Microsoft word application.   |
| Computer Science | FYBSc |             | CO2    | Student will understand the working of Microsoft Excel application..   |
| Computer Science | FYBSc |             | CO3    | Student will able to manage and store data in Excel spreadsheet  |
| Computer Science | FYBSc | CSV5101     | CO1    | Perform basic laboratory procedures and protocols in future lab situations.  |
| Computer Science | FYBSc |             | CO2    | Maintain laboratory records compliant with current industry standards.   |
| Computer Science | FYBSc |             | CO3    | Utilize troubleshoot measures during laboratory processes.   |
| Computer Science | FYBSc |             | CO4    | Analyse laboratory data with accuracy.   |
| Computer Science | FYBSc |             | CO5    | Explain MSDS data of various chemicals.  |
| Computer Science | FYBSc | S104CST     | CO1    | Students should be able to evaluate business information problem and find the requirements of a problem in terms of data.                        |
| Computer Science | FYBSc |             | CO2    | Students should be able to design the database schema with the use of appropriate data types for storage of data in database.                    |
| Computer Science | FYBSc |             | CO3    | Students should be able to create, manipulate, query and back up the databases.  |
| Computer Science | FYBSc | S105CST     | CO1    | Learn about Data structures, its types and significance in computing   |
| Computer Science | FYBSc |             | CO2    | Explore about Abstract Data types and its implementation   |
| Computer Science | FYBSc |             | CO3    | Ability to program various applications using different data structure in Python   |
| Computer Science | FYBSc | CSSE101     | CO1    | Various parts of computer hardware   |
| Computer Science | FYBSc |             | CO2    | Learner should get a clear understanding of PC Assembling, hardware technologies and networking.   |
| Computer Science | FYBSc |             | CO3    | Student will analyse the problem regarding hardware of computer  |
| Computer Science | FYBSc | CSOE102     | CO1    | To design valid, well-formed, scalable, and meaningful pages using emerging technologies.  |
| Computer Science | FYBSc |             | CO2    | Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites                                     |
| Computer Science | FYBSc |             | CO3    | To develop and implement client-side and server-side scripting language programs.  |



| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Computer Science | FYBSc | CSVE102     | CO1    | Learn about green IT can be achieved in and by hardware, software, network communication and data center operations.                     |
| Computer Science | FYBSc |             | CO2    | Understand the strategies, frameworks, processes and management of green IT  |
| Chemistry        | SYBSc | USCH31      | CO1    | should understand Gibb's-Duhem equation, Van't Hoff reaction isotherm and Van't Hoff reaction isochore                                   |
| Chemistry        | SYBSc |             | CO2    | will learn concept of Hybridization  |
| Chemistry        | SYBSc |             | CO3    | will have expertise in reactions of alcohols, phenols, epoxides  |
| Chemistry        | SYBSc | USCH32      | CO1    | Calculate energy of activation for various reactions using Arrhenius equation.   |
| Chemistry        | SYBSc |             | CO2    | Compare Collision Theory and Activated Complex Theory.   |
| Chemistry        | SYBSc |             | CO3    | Explain structure and bonding in diborane and tetraborane.   |
| Chemistry        | SYBSc |             | CO4    | Illustrate Zone-Refining and Czochralski pulling method for preparation of ultrapure silicon and germanium.                              |
| Chemistry        | SYBSc |             | CO5    | Apply IUPAC nomenclature rules to aldehydes and ketones.   |
| Chemistry        | SYBSc |             | CO6    | Write mechanisms of condensation reactions.  |
| Chemistry        | SYBSc | USCH33      | CO1    | Understand the purpose and significance of chemical analysis.  |
| Chemistry        | SYBSc |             | CO2    | Differentiate between precision and accuracy.  |
| Chemistry        | SYBSc |             | CO3    | Identify sources of possible errors in the results obtained.   |
| Chemistry        | SYBSc |             | CO4    | Understand various classical methods of analysis.  |
| Chemistry        | SYBSc |             | CO5    | Select proper titrimetric method of analysis.  |
| Chemistry        | SYBSc |             | CO6    | Calibrate various glassware used for gravimetric and volumetric analysis.  |
| Chemistry        | SYBSc |             | CO7    | Determine end point and construct titration curves.  |
| Chemistry        | SYBSc |             | CO8    | Perform stoichiometry calculations, prepare standard solutions, perform titrations and determine concentration and amount of substances. |
| Chemistry        | SYBSc |             | CO9    | Apply concepts of gravimetry to problems in quantitative analysis.   |
| Chemistry        | SYBSc |             | CO10   | Understand the principle, construction and working of photometers and spectrophotometer  |
| Chemistry        | SYBSc |             | CO11   | Know the various instrumental methods of analysis.   |
| Chemistry        | SYBSc |             | CO12   | Select a suitable instrumental method for analysis.  |
| Chemistry        | SYBSc |             | CO13   | Understand the basic terms in spectrometry.  |
| Chemistry        | SYBSc |             | CO14   | Use the relationship between absorbance (and its variations) and concentration of the analyte.   |
| Chemistry        | SYBSc | USCH41      | CO1    | will be able to Identify Phase, number of components and degree of freedom of one and two component systems                              |
| Chemistry        | SYBSc |             | CO2    | will learn IUPAC nomenclature system for naming Co-ordination compounds  |
| Chemistry        | SYBSc |             | CO3    | learn the reactions of carboxylic acids and their derivatives  |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Chemistry  | SYBSc | USCH42      | CO1    | differentiate between homogeneous-heterogeneous catalysis, acid-base catalysis and enzyme catalysis.   |
| Chemistry  | SYBSc |             | CO2    | calculate interplanar distance in a crystal using Bragg's equation.  |
| Chemistry  | SYBSc |             | CO3    | classify cations and anions on the basis of acidity and basicity predominance diagrams.  |
| Chemistry  | SYBSc |             | CO4    | describe practical uses and environmental aspects of oxides and oxoacids.  |
| Chemistry  | SYBSc |             | CO5    | predict the effect of substituents (electron donating and electron withdrawing) on basicity of amines.   |
| Chemistry  | SYBSc |             | CO6    | explain aromaticity and reactivity of furan, thiophene, pyrrole and pyridine.  |
| Chemistry  | SYBSc | USCH42      | CO1    | Understand the importance of separation in sample treatment  |
| Chemistry  | SYBSc |             | CO2    | •Know various methods of separations   |
| Chemistry  | SYBSc |             | CO3    | Select a method of separation of an analyte from the matrix  |
| Chemistry  | SYBSc |             | CO4    | Know how a solute gets distributed between two immiscible phases   |
| Chemistry  | SYBSc |             | CO5    | Distinguish between various chromatographic techniques   |
| Chemistry  | SYBSc |             | CO6    | Describe the working principles as well as applications of paper- and thin layer-chromatography.   |
| Chemistry  | SYBSc |             | CO7    | Explicate the basic principles and experimental setup of various instrumental methods, i.e., pH-metry and potentiometry  |
| Chemistry  | SYBSc |             | CO8    | Understand the various techniques for a sampling of solids, liquids and gases; discuss elaborately on the collection, preservation and dissolution of samples.   |
| Botany     | SYBSc | USBOT31     | CO1    | Describe Occurrence, structure, reproduction of Sargassum, Anthoceros, Funaria   |
| Botany     | SYBSc |             | CO2    | Criticize different stages in the life cycle of Sargassum, Anthoceros, Funaria   |
| Botany     | SYBSc |             | CO3    | Explain concepts of biodiversity, preservation methods, plant systematics  |
| Botany     | SYBSc |             | CO4    | Apply rules of plant nomenclature while classifying plant  |
| Botany     | SYBSc |             | CO5    | Discuss salient features of Fabaceae, Caesalpinaceae, Mimosaceae, Asteraceae, Amaranthaceae, Palmae (Arecaceae), Combretaceae family   |
| Botany     | SYBSc |             | CO6    | Evaluate economic importance of some angiosperm families   |
| Botany     | SYBSc |             | CO7    | Interpret principles and techniques of Microscopy, Chromatography, Electrophoresis   |
| Botany     | SYBSc | USBOT32     | CO1    | Define cell cycle, replication, deletion, duplication, inversion, translocation and central dogma of protein synthesis   |
| Botany     | SYBSc |             | CO2    | Explain the Mitochondrion, Peroxisomes, Glyoxisomes and Ribosomes, stages in cell cycle organelle heredity with the help of Plastid transmission in plants, Streptomycin resistance in Chlamydomonas and Male sterility in maize |
| Botany     | SYBSc |             | CO3    | Differentiate the mitosis and meiosis  |
| Botany     | SYBSc |             | CO4    | Compare types, structure of DNA and RNA, DNA replication in prokaryotes and eukaryotes   |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Botany     | SYBSc |             | CO5    | Discuss Origin, Cytological and Genetic Effects of Deletions, Duplications, Inversions and Translocations.  |
| Botany     | SYBSc |             | CO6    | Describe Sex determination, Sex linked, sex influenced and sex-limited traits, modes of DNA replication with the help of Meselson and Stahl Experiment and central dogma of protein synthesis |
| Botany     | SYBSc | USBOT33     | CO1    | Explain concepts of pharmacopoeia, Secondary Metabolites, Organic Farming, Economic Botany, Aromatherapy, Biofuels  |
| Botany     | SYBSc |             | CO2    | Differentiate Primary and Secondary Metabolites, types of forests in India  |
| Botany     | SYBSc |             | CO3    | Summarize Sources, Properties, Uses of Alkaloids, Glycosides, Tannins, Volatile oils, Gums, Resins  |
| Botany     | SYBSc |             | CO4    | Clarify Adulteration and Substitution with example of <i>Saraca asoca</i> and <i>Polyalthia longifolia</i> , <i>Terminalia arjuna</i> and <i>Terminalia tomentosa</i>                         |
| Botany     | SYBSc |             | CO5    | Criticize different stages in the life cycle of <i>Sargassum</i> , <i>Anthoceros</i> , <i>Funaria</i>   |
| Botany     | SYBSc |             | CO6    | Justify Advantages and Disadvantages of organic farming   |
| Botany     | SYBSc |             | CO7    | Prepare a plan to grow Cardamom and Black pepper  |
| Botany     | SYBSc |             | CO8    | Discuss Uses of Jojoba, Lemon, Jasmin in aromatherapy and Methods and Opportunities in Fruit processing   |
| Botany     | SYBSc |             | CO9    | Evaluate economic importance of <i>Spirulina</i> , <i>Vanillin</i> , <i>Garcinia indica</i> / <i>Garcinia cambogia</i> , <i>Chlorella</i>   |
| Botany     | SYBSc | USBOT41     | CO1    | Explain Occurrence, structure, reproduction of <i>Agaricus</i> , <i>Xylaria</i> , Lichens, <i>Selaginella Rhynia</i> , <i>Pinus</i> , <i>Cordaites</i>  |
| Botany     | SYBSc |             | CO2    | Describe concepts of Plant Pathology, geological time scale   |
| Botany     | SYBSc |             | CO3    | Differentiate types of lichens, types of fossils and its procedure of formation   |
| Botany     | SYBSc |             | CO4    | Evaluate economic importance of lichen and coniferphyta   |
| Botany     | SYBSc |             | CO5    | Criticize different stages in the life cycle of <i>Agaricus</i> , <i>Xylaria</i> , <i>Selaginella</i> , <i>Pinus</i>  |
| Botany     | SYBSc |             | CO6    | Apply knowledge of plant pathology to identify disease and suggest measures to control Powdery mildew and Late blight of potato   |
| Botany     | SYBSc |             | CO7    | Discuss salient features of Malvaceae and Amarylidaceae family  |
| Botany     | SYBSc | USBOT42     | CO1    | Define tissue, respiration, ecology, photoperiodism and vernalization   |
| Botany     | SYBSc |             | CO2    | Describe the normal secondary growth in dicot root and stem Describe the concept of community ecology with their quantitative and qualitative characters and mechanism of photorespiration    |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Botany     | SYBSc |             | CO3    | Explain the concept of growth rings, periderm, lenticels, tyloses, heart wood and sap wood, ecological factors and their effects on distribution of plants, of Carbon, Nitrogen and Water cycles and tissues providing mechanical strength and support with their dispositions |
| Botany     | SYBSc |             | CO4    | Discuss the principle of I-girders in aerial and underground organs and types of vascular bundles  |
| Botany     | SYBSc |             | CO5    | Compare types of respiration   |
| Botany     | SYBSc |             | CO6    | Evaluate the role of photoperiodism and vernalization with respect to flowering in plants  |
| Botany     | SYBSc | USBOT43     | CO1    | Justify different plants for different locations of garden like edges, hedges, lawn, flower beds, avenue, water garden   |
| Botany     | SYBSc |             | CO2    | Explain concepts of Horticulture, plant tissue culture, R-DNA technology, Gene cloning, Bioinformatics   |
| Botany     | SYBSc |             | CO3    | Differentiate Formal and informal gardens  |
| Botany     | SYBSc |             | CO4    | Evaluate importance of Botanical garden, tissue culture, transgenic plants   |
| Botany     | SYBSc |             | CO5    | Describe techniques in plant tissue culture, Tools of Bioinformatics   |
| Botany     | SYBSc |             | CO6    | Prepare a plan for Laboratory organization used for plant tissue culture   |
| Botany     | SYBSc |             | CO7    | Calculate chi square test and coefficient of correlation of given problem.   |
| Physics    | SYBSc | USPHT31     | CO1    | apply the techniques of derivatives and integration  |
| Physics    | SYBSc |             | CO2    | apply the techniques of solving 1st order DEs  |
| Physics    | SYBSc |             | CO3    | describe the various types of polarization and how to identify them  |
| Physics    | SYBSc |             | CO4    | describe the working and applications of interferometers   |
| Physics    | SYBSc |             | CO5    | describe the conversion of heat into work, second law of thermodynamics and working of petrol / diesel engines   |
| Physics    | SYBSc |             | CO6    | solve the numericals and problems based on the content   |
| Physics    | SYBSc | USPHT32     | CO1    | calculate the Stability factor of using different transistor biasing methods   |
| Physics    | SYBSc |             | CO2    | illustrate the concept of amplifier using different Circuit  |
| Physics    | SYBSc |             | CO3    | compare the LR,CR,LCR circuit using conducting the experiment  |
| Physics    | SYBSc |             | CO4    | apply the principal and working of Transformer and AC bridges in the laboratory  |
| Physics    | SYBSc |             | CO5    | compare and analyze the interaction between particles and matter using different counter   |
| Physics    | SYBSc |             | CO6    | identify different types of nuclear reactions and differentiate between nuclear fission and fusion   |
| Physics    | SYBSc | USPHT33     | CO1    | Understand the principles of compound pendulum and will study in detail maximum, minimum period of compound pendulum and interchangeability of centers.  |
| Physics    | SYBSc |             | CO2    | Learn about damped vibration and will solve mathematical derivations related to it.  |
| Physics    | SYBSc |             | CO3    | Describe forced vibrations, concept of resonance and quality factor of oscillator.   |

| Department  | Class | Course code | CO No. | CO   |
|-------------|-------|-------------|--------|--|
| Physics     | SYBSc |             | CO4    | Enable to get familiar with central concepts of quantum mechanics: wave functions, momentum and energy operator, the Schrodinger equation, probability density and the normalization techniques, skill development on problem solving. |
| Physics     | SYBSc |             | CO5    | Describe the effect of electric and magnetic field on motion of charged particles.   |
| Physics     | SYBSc |             | CO6    | Solve numerical problems related to the content  |
| Physics     | SYBSc | USPHT41     | CO1    | apply the mathematical methods to differential equations, scalar/vector functions  |
| Physics     | SYBSc |             | CO2    | describe the phenomenon of Fresnel/Fraunhofer Diffraction using strip division of wavefront  |
| Physics     | SYBSc |             | CO3    | describe the concept of both types of RPs  |
| Physics     | SYBSc |             | CO4    | explain the concept of Entropy and its importance, entropy change in various processes and principle of increase of entropy  |
| Physics     | SYBSc |             | CO5    | explain applications of the coordinate systems, differential equations, diffraction grating etc  |
| Physics     | SYBSc |             | CO6    | solve numerical examples related to the content  |
| Physics     | SYBSc | USPHT42     | CO1    | draw the circuit diagram of different type of Oscillator and solve the problem based on it   |
| Physics     | SYBSc |             | CO2    | learn and conduct the experiment on Op-AMP using different types of Amplifier  |
| Physics     | SYBSc |             | CO3    | do the arithmetic operation binary number and design the circuit using logic gates for Flip-Flop   |
| Physics     | SYBSc |             | CO4    | compare different types of register(SISO,SIPO,PISO,PIPO)using circuit diagram and clock pulse same for Counters  |
| Physics     | SYBSc |             | CO5    | analyze the concept of Communication system using analog and digital communication, noise factor   |
| Physics     | SYBSc |             | CO6    | compare AM and FM Modulations using solving mathematical expression also distinguish between ASK,PSK,FSK,PAM,PWM,PPM,PCM   |
| Physics     | SYBSc | USPHT43     | CO1    | understand the basic concept of particle dynamics.   |
| Physics     | SYBSc |             | CO2    | apply the concept to understand the particles systems  |
| Physics     | SYBSc |             | CO3    | understand applications of Schrodinger's equation  |
| Physics     | SYBSc |             | CO4    | study the behavior of particle under different potentials  |
| Physics     | SYBSc |             | CO5    | apply the technique of separation of variables to solve problems in more than one dimension  |
| Physics     | SYBSc |             | CO6    | to Demonstrate quantitative problem solving skills in all the topics covered   |
| Mathematics | SYBSc | USMST31     | CO1    | learn concepts of Euclidean Space and analyze the properties of Scalar field   |
| Mathematics | SYBSc |             | CO2    | learn limit and continuity of scalar field   |
| Mathematics | SYBSc |             | CO3    | learn the differentiability of a scalar field  |
| Mathematics | SYBSc |             | CO4    | understand the concept of partial derivatives  |
| Mathematics | SYBSc |             | CO5    | learn the concept of differentiability of vector fields  |

| Department  | Class | Course code | CO No. | CO   |
|-------------|-------|-------------|--------|--|
| Mathematics | SYBSc |             | CO6    | analyze second derivative test for extrema of functions of two variables and method of Lagrange multipliers.<br>4. Method of Lagrange multipliers.   |
| Mathematics | SYBSc | USMST32     | CO1    | Represent linear maps on vector spaces by matrices; generate isomorphic vector spaces, and obtain its related results.   |
| Mathematics | SYBSc |             | CO2    | learn rank of a matrix and rank of a solution of system of linear equations  |
| Mathematics | SYBSc |             | CO3    | Prove properties of determinant via permutations, evaluate determinant by Laplace/cofactor expansion,  |
| Mathematics | SYBSc |             | CO4    | solve system of equations by Cramer's rule and obtain results of adjoint of a matrix.  |
| Mathematics | SYBSc |             | CO5    | Check whether a given product is an inner product and obtain its properties;<br>prove theorems related to norms such as Cauchy-Schwarz inequality, triangle inequality,  |
| Mathematics | SYBSc |             | CO6    | analyze Pythagoras's theorem and Gram-Schmidt orthogonalization process.<br>4. Method of Lagrange multipliers.   |
| Mathematics | SYBSc | USMST33     | CO1    | Understand the concept of advanced counting and observe their applications to various real-life problems.  |
| Mathematics | SYBSc |             | CO2    | learn Stirling numbers of second kind and Pigeon hole principle and its strong form, its applications to geometry, monotonic sequences   |
| Mathematics | SYBSc |             | CO3    | Binomial and Multinomial Theorem, Pascal identity, examples of standard identities   |
| Mathematics | SYBSc |             | CO4    | understand permutation and combination of sets and multi-sets, circular permutations   |
| Mathematics | SYBSc |             | CO5    | learn Permutation of objects, composition of permutations, results such as every permutation is product of disjoint cycles, every cycle is product of transpositions, even and odd permutations, rank and signature of permutation, cardinality of even permutations   |
| Mathematics | SYBSc |             | CO6    | learn recurrence relation, definition of homogeneous, non-homogeneous, linear and non-linear recurrence relation, obtaining recurrence relation in counting problems, solving (homogeneous as well as non-homogeneous) recurrence relation by using iterative method, solving a homogeneous recurrence relation of second degree using algebraic method proving the necessary result |
| Mathematics | SYBSc | USMST41     | CO1    | understand concept of Riemann integration and properties of Riemann integrable functions.  |
| Mathematics | SYBSc |             | CO2    | analyze bounded monotone and continuous functions are R-integrable and bounded function with finite number of discontinuities is R-Integrable  |
| Mathematics | SYBSc |             | CO3    | learn the concept of improper integrals and compute improper integrals and possess expertise in very important functions such as beta and gamma functions.   |

| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Mathematics      | SYBSc |             | CO4    | test convergence and absolute convergence of improper integrals.   |
| Mathematics      | SYBSc |             | CO5    | the concept of Gamma and beta functions and their properties, relationship between gamma and beta functions  |
| Mathematics      | SYBSc |             | CO6    | learn applications of definite Integrals: Area between curves, finding volumes by slicing, volumes of solids of revolution-Disks and Washers, Cylindrical Shells, Lengths of plane curves, Areas of surfaces of revolution   |
| Mathematics      | SYBSc | USMST42     | CO1    | possess knowledge of important mathematical concepts in abstract algebra such as definition of a group, order of a finite group and order of an element.   |
| Mathematics      | SYBSc |             | CO2    | learn and mathematical concepts in abstract mathematics such as permutation groups, dihedral groups, Abelian groups, centre of a group etc.  |
| Mathematics      | SYBSc |             | CO3    | knowledgeable of subgroups, cyclic subgroups and the structure and characteristics of these subgroups.   |
| Mathematics      | SYBSc |             | CO4    | Understand concepts such as cosets, Lagrange's theorem.  |
| Mathematics      | SYBSc |             | CO5    | Apply the concept of homomorphisms and isomorphisms of groups  |
| Mathematics      | SYBSc | USMST43     | CO1    | Formulate differential equations for various mathematical models.  |
| Mathematics      | SYBSc |             | CO2    | Solve first, second and higher order ordinary differential equation using various techniques.  |
| Mathematics      | SYBSc |             | CO3    | analyze higher order ordinary differential equation using various techniques.  |
| Mathematics      | SYBSc |             | CO4    | Apply these techniques to solve and analyse various mathematical models.   |
| Mathematics      | SYBSc |             | CO5    | Formulate, classify and transform partial differential equations into canonical form.  |
| Mathematics      | SYBSc |             | CO6    | Solve some of the physical problems, for example, heat and wave equations. solving (homogeneous as well as non-homogenous) recurrence relation by using iterative method, solving a homogeneous recurrence relation of second degree using algebraic method proving the necessary result |
| Computer Science | SYCS  | USCST31     | CO1    | Understand Grammar and Languages   |
| Computer Science | SYCS  |             | CO2    | Learn about Automata theory and its application in Language Design   |
| Computer Science | SYCS  |             | CO3    | Learn about Turing Machines and Pushdown Automata  |
| Computer Science | SYCS  |             | CO4    | Understand Linear Bound Automata and its applications  |
| Computer Science | SYCS  | USCST32     | CO1    | Object oriented programming concepts using Java.   |
| Computer Science | SYCS  |             | CO2    | Knowledge of input, its processing and getting suitable output.  |
| Computer Science | SYCS  |             | CO3    | Understand, design, implement and evaluate classes and applets.  |
| Computer Science | SYCS  |             | CO4    | Knowledge and implementation of AWT package.   |
| Computer Science | SYCS  | USCST33     | CO1    | To provide a understanding of operating system, its structures and functioning   |

| Department       | Class | Course code | CO No. | CO  |
|------------------|-------|-------------|--------|---|
| Computer Science | SYCS  |             | CO2    | Develop and master understanding of algorithms used by operating systems for various purposes.  |
| Computer Science | SYCS  | USCST34     | CO1    | Master concepts of stored procedure and triggers and its use.   |
| Computer Science | SYCS  |             | CO2    | Learn about using PL/SQL for data management  |
| Computer Science | SYCS  |             | CO3    | Understand concepts and implementations of transaction management and crash recovery  |
| Computer Science | SYCS  | USCST35     | CO1    | Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings.   |
| Computer Science | SYCS  |             | CO2    | Understand the combinatorial features in real world situations and Computer Science applications.   |
| Computer Science | SYCS  |             | CO3    | Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems                         |
| Computer Science | SYCS  | USCST36     | CO1    | Enable learners to understand System On Chip Architectures.   |
| Computer Science | SYCS  |             | CO2    | Introduction and preparing Raspberry Pi with hardware and installation.   |
| Computer Science | SYCS  |             | CO3    | Learn physical interfaces and electronics of Raspberry Pi and program them using practical's  |
| Computer Science | SYCS  |             | CO4    | Learn how to make consumer grade IoT safe and secure with proper use of protocols.  |
| Computer Science | SYCS  | USCST37     | CO1    | To design valid, well-formed, scalable, and meaningful pages using emerging technologies.   |
| Computer Science | SYCS  |             | CO2    | Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites  |
| Computer Science | SYCS  |             | CO3    | To develop and implement client-side and server-side scripting language programs.   |
| Computer Science | SYCS  |             | CO4    | To develop and implement Database Driven Websites.  |
| Computer Science | SYCS  |             | CO5    | Design and apply XML to create a markup language for data and document centric applications.  |
| Computer Science | SYCS  | USCST41     | CO1    | Understand the concepts of algorithms for designing good program  |
| Computer Science | SYCS  |             | CO2    | Implement algorithms using Python   |
| Computer Science | SYCS  | USCST42     | CO1    | Understand the concepts related to Java Technology  |
| Computer Science | SYCS  |             | CO2    | Explore and understand use of Java Server Programming   |
| Computer Science | SYCS  | USCST43     | CO1    | Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'.            |
| Computer Science | SYCS  |             | CO2    | Useful to proceed with industrial requirements and International vendor certifications.   |
| Computer Science | SYCS  | USCST44     | CO1    | Learner will be able to understand the concepts of SDLC process of software engineering   |
| Computer Science | SYCS  |             | CO2    | Learner will be able to understand the concepts of Software Project Management, Scheduling, Risk management, Quality assurance and Software testing |
| Computer Science | SYCS  | USCST45     | CO1    | Appreciate the relevance of linear algebra in the field of computer science.  |
| Computer Science | SYCS  |             | CO2    | Understand the concepts through program implementation  |
| Computer Science | SYCS  |             | CO3    | Instill a computational thinking while learning linear algebra.   |
| Computer Science | SYCS  | USCST46     | CO1    | Understand the .NET framework   |



| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Computer Science | SYCS  |             | CO2    | Develop a proficiency in the C# programming language   |
| Computer Science | SYCS  |             | CO3    | Proficiently develop ASP.NET web applications using C#   |
| Computer Science | SYCS  |             | CO4    | Use ADO.NET for data persistence in a web application  |
| Computer Science | SYCS  | USCST47     | CO1    | Understand the requirements of Mobile programming environment.   |
| Computer Science | SYCS  |             | CO2    | Learn about basic methods, tools and techniques for developing Apps                                    |
| Computer Science | SYCS  |             | CO3    | Explore and practice App development on Android Platform   |
| Computer Science | SYCS  |             | CO4    | Develop working prototypes of systems for various uses in daily lives.                                 |
| Chemistry        | TYBSc | USCH51      | CO1    | Students will get knowledge of rotational spectrum, vibrational spectrum                               |
| Chemistry        | TYBSc |             | CO2    | Students will learn to calculate Activity and Activity coefficient of any electrolyte                  |
| Chemistry        | TYBSc |             | CO3    | They will have expertise in balancing Nuclear reactions  |
| Chemistry        | TYBSc |             | CO4    | Students will be able to differentiate between adsorption and absorption                               |
| Chemistry        | TYBSc | USCH52      | CO1    | determine point groups of the molecules by identifying elements of symmetry present in them.           |
| Chemistry        | TYBSc |             | CO2    | correlate between bond angle and molecular orbitals on the basis of Molecular Orbital Theory.          |
| Chemistry        | TYBSc |             | CO3    | illustrate different structures of solids and their defects.   |
| Chemistry        | TYBSc |             | CO4    | compare various aspects of lanthanides and actinides.  |
| Chemistry        | TYBSc |             | CO5    | describe properties and application of Uranium.  |
| Chemistry        | TYBSc |             | CO6    | explain structures and geometries of oxyanions and interhalogen compounds on the basis of VSEPR.       |
| Chemistry        | TYBSc | USCH53      | CO1    | Write the types and mechanism of pericyclic reactions  |
| Chemistry        | TYBSc |             | CO2    | write the reactions and mechanism of photochemical reactions   |
| Chemistry        | TYBSc |             | CO3    | know the Molecular chirality and elements of symmetry and R and S nomenclature                         |
| Chemistry        | TYBSc |             | CO4    | To give the preparation methods, reactions of particular heterocyclic compounds                        |
| Chemistry        | TYBSc |             | CO5    | To write the IUPAC Systematic nomenclature of the Bicyclo, cummelene and spiro compounds               |
| Chemistry        | TYBSc |             | CO6    | To explain the basic concepts of UV and Mass spectroscopy  |
| Chemistry        | TYBSc |             | CO7    | classify the natural products and give its preparation and reactions                                   |
| Chemistry        | TYBSc | USCH54      | CO1    | Understand the use of statistical methods in chemical analysis.  |
| Chemistry        | TYBSc |             | CO2    | Understand the nature of indeterminate errors.   |
| Chemistry        | TYBSc |             | CO3    | Understand the randomness of such errors and their distribution around a correct or acceptable result. |
| Chemistry        | TYBSc |             | CO4    | Computation of Confidence limits and confidence interval.  |
| Chemistry        | TYBSc |             | CO5    | Test for rejection of the doubtful result.   |
| Chemistry        | TYBSc |             | CO6    | Understand the theory and selection of redox indicators.   |
| Chemistry        | TYBSc |             | CO7    | Understand the selectivity of EDTA as a titrant in complexometric titrations.                          |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Chemistry  | TYBSc |             | CO8    | Distinguish between the working principles and applications of flame photometry and AAS; fluorimetry and phosphorimetry; turbidimetry and nephelometry. |
| Chemistry  | TYBSc |             | CO9    | Comprehend the principles, instrumentation and applications of advanced chromatographic techniques, i.e., GC and HPLC.                                  |
| Chemistry  | TYBSc | USCH55      | CO1    | Understand general terms in drug and colour chemistry   |
| Chemistry  | TYBSc |             | CO2    | Know various routes of drug administration and dosage forms,  |
| Chemistry  | TYBSc |             | CO3    | Understand the uses and side-effects of different pharmacodynamic agents  |
| Chemistry  | TYBSc |             | CO4    | Know the commercial methods of synthesis of common drugs.   |
| Chemistry  | TYBSc |             | CO5    | Be familiar with different natural and synthetic dyes.  |
| Chemistry  | TYBSc |             | CO6    | Know the different classes of dyes and their applications   |
| Chemistry  | TYBSc |             | CO7    | Understand various unit processes for the synthesis of dyes.  |
| Chemistry  | TYBSc | USCH61      | CO1    | Students will have expertise in solving numerical on Colligative properties   |
| Chemistry  | TYBSc |             | CO2    | Students understand Basic terms and Classification and Uses of Polymers   |
| Chemistry  | TYBSc |             | CO3    | They will apply their knowledge and develop creativity to solve numerical related to Quantum chemistry  |
| Chemistry  | TYBSc |             | CO4    | Students will be able to understand the principle and working of NMR spectrophotometer  |
| Chemistry  | TYBSc | USCH62      | CO1    | contrast between Crystal Field Theory and Valence Bond Theory.  |
| Chemistry  | TYBSc |             | CO2    | calculate CFSE for complexes and thus predict their stability.  |
| Chemistry  | TYBSc |             | CO3    | determine terms, term symbols and Orgel Diagrams for various electronic configurations.   |
| Chemistry  | TYBSc |             | CO4    | distinguish between Thermodynamic and Kinetic Stability of Complexes.   |
| Chemistry  | TYBSc |             | CO5    | describe general characteristics of Organometallic Compounds.   |
| Chemistry  | TYBSc |             | CO6    | predict the structures of Xenon compounds on the basis of VSEPR.  |
| Chemistry  | TYBSc | USCH63      | CO1    | Explain the advanced concepts of stereochemistry like Stereoselectivity and stereospecificity   |
| Chemistry  | TYBSc |             | CO2    | give the stereochemistry of elimination reactions.  |
| Chemistry  | TYBSc |             | CO3    | Write the mechanism of some organic rearrangement reactions with stereochemistry  |
| Chemistry  | TYBSc |             | CO4    | To classify different carbohydrates, understand their reactions and applications.   |
| Chemistry  | TYBSc |             | CO5    | To explain the concept of Ir and NMR spectroscopy.  |
| Chemistry  | TYBSc |             | CO6    | To solve the spectroscopy problems on structure elucidation.  |
| Chemistry  | TYBSc |             | CO7    | Classify the different types of polymers, their preparation methods and applications.   |
| Chemistry  | TYBSc |             | CO8    | Study the different types of catalyst and reagents with their preparation methods and synthetic applications.   |
| Chemistry  | TYBSc | USCH64      | CO1    | • Know the principle of polarographic analysis and factors affecting polarographic wave.  |
| Chemistry  | TYBSc |             | CO2    | • Understand the principle and applications of amperometric titrations.   |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Chemistry  | TYBSc |             | CO3    | • Comprehend the principles, instrumentation and applications of advanced chromatographic techniques, i.e., HPTLC and Ion Exchange Chromatography          |
| Chemistry  | TYBSc |             | CO4    | • Be familiar with pharma-related regulatory topics such as TQM, GLP, Chemical standards, certified reference materials and grades of laboratory reagents. |
| Chemistry  | TYBSc |             | CO5    | • Be familiar with methods of food processing and preservation.  |
| Chemistry  | TYBSc |             | CO6    | • Know methods for the determination of adulterants in food  |
| Chemistry  | TYBSc |             | CO7    | • Know the sensory properties and its role in developing cosmetic products.  |
| Chemistry  | TYBSc |             | CO8    | • Determine the constituents present in routine cosmetic products  |
| Chemistry  | TYBSc |             | CO9    | • Explain the fundamental principles and differences between TGA and DTA.  |
| Chemistry  | TYBSc | USCH65      | CO1    | • Learn the drug discovery and development processes   |
| Chemistry  | TYBSc |             | CO2    | • Understand the drug metabolism pathways  |
| Chemistry  | TYBSc |             | CO3    | • Understand the uses and side-effects of different chemotherapeutic agents.   |
| Chemistry  | TYBSc |             | CO4    | • Understand the environmental aspects of pharma industries  |
| Chemistry  | TYBSc |             | CO5    | • Learn structural classes of dyes   |
| Chemistry  | TYBSc |             | CO6    | • Be familiar with Health and Environmental Hazards of Synthetic Dyes  |
| Chemistry  | TYBSc |             | CO7    | • Learn various effluent treatment strategies  |
| Chemistry  | TYBSc |             | CO8    | • Be familiar with dyes used in food, leather and cosmetic industries  |
| Physics    | TYBSc |             | CO2    | get exposure to important ideas of statistical mechanics   |
| Physics    | TYBSc |             | CO3    | solve simple problems in probability, understand the concept of independent events and work with standard continuous distributions                         |
| Physics    | TYBSc |             | CO4    | get idea of the functions of complex variables; solve non homogeneous differential equations and partial differential equations using simple methods       |
| Physics    | TYBSc |             | CO5    | learn the concept of microstates, Boltzmann distribution and statistical origins of entropy  |
| Physics    | TYBSc |             | CO6    | understand the difference between different statistics, classical as well as quantum.  |
| Physics    | TYBSc | USPHT52     | CO1    | understand the basics of crystallography   |
| Physics    | TYBSc |             | CO2    | explains Crystal systems, Crystal planes and directions, Miller indices and Know the structures of crystalline solids                                      |
| Physics    | TYBSc |             | CO3    | understand Electrical properties of metals based on different theories   |
| Physics    | TYBSc |             | CO4    | understand Semiconductor Physics and able performed some basic experiments related to it   |
| Physics    | TYBSc |             | CO5    | understand the basic concept of superconductivity  |
| Physics    | TYBSc |             | CO6    | apply their knowledge to solve problems in solid state physics   |
| Physics    | TYBSc | USPHT53     | CO1    | Understand the applications of quantum mechanics in atomic physics   |
| Physics    | TYBSc |             | CO2    | Get exposed to solving non-relativistic hydrogen atom, for its eigen functions and eigenvalues   |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Physics    | TYBSc |             | CO3    | Learn about the importance of electron spin, symmetric and antisymmetric wave functions and vector atom model  |
| Physics    | TYBSc |             | CO4    | Understand the effect of magnetic field on atoms and its application through Normal Zeeman effect, Anomalous Zeeman effect.                            |
| Physics    | TYBSc |             | CO5    | Describe the phenomena of molecular spectroscopy in detail and various spectrometers such as Infrared, Microwave, Raman, Electron Spin Resonance etc   |
| Physics    | TYBSc |             | CO6    | Apply theory in numerical problems solving related to the content  |
| Physics    | TYBSc | USPHT54     | CO1    | apply techniques of electrostatics to find E/V/Rho if other one of them is given   |
| Physics    | TYBSc |             | CO2    | apply techniques of magnetostatics to find field due to a current distribution   |
| Physics    | TYBSc |             | CO3    | describe the polarization/ magnetization effects   |
| Physics    | TYBSc |             | CO4    | describe how changes in one of the fields produces another   |
| Physics    | TYBSc |             | CO5    | describe the nature of EM waves and derive the Snell's Law from the Maxwell's equations  |
| Physics    | TYBSc |             | CO6    | solve numerical problems related to the content  |
| Physics    | TYBSc | USPHT55     | CO1    | describe the concept, structure and working of a microprocessor based system   |
| Physics    | TYBSc |             | CO2    | associate various 8085 instructions and microprocessor functions   |
| Physics    | TYBSc |             | CO3    | break Down a problem in steps solvable using the 8085 assembly language  |
| Physics    | TYBSc |             | CO4    | use proper assembly language program structure for a particular task   |
| Physics    | TYBSc |             | CO5    | describe the interfacing of various devices with a microprocessor based system   |
| Physics    | TYBSc |             | CO6    | create 8085 assembly language programs for simple tasks  |
| Physics    | TYBSc | USPHT61     | CO1    | describe how central force leads to both bound and unbounded orbits and derive formulae to find the energies at which that happens                     |
| Physics    | TYBSc |             | CO2    | describe effects of the pseudo forces due to a rotating frame and derive related mathematical equations  |
| Physics    | TYBSc |             | CO3    | apply Lagrangian method to simple situations involving conservative forces   |
| Physics    | TYBSc |             | CO4    | describe the laws of fluids and their mathematical expressions   |
| Physics    | TYBSc |             | CO5    | explain the tensor nature of the MI, dynamics of rotating bodies   |
| Physics    | TYBSc |             | CO6    | solve numerical examples related to the content of the course  |
| Physics    | TYBSc | USPHT62     | CO1    | learn the basics of semiconductor devices and apply their applications   |
| Physics    | TYBSc |             | CO2    | revise the basic concepts operational amplifier, applications as instrumentation amplifier. Design active filters, comparators and waveform generation |
| Physics    | TYBSc |             | CO3    | conduct the experiment on the basic concepts of timing pulse generation and regulated power supplies   |

| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Physics          | TYBSc |             | CO4    | analyze the basic electronic circuits for universal logic building blocks and basic concepts of digital communication  |
| Physics          | TYBSc | USPHT63     | CO1    | Understand the properties of nuclei like density, size, binding energy, nuclear forces and structure of atomic nucleus.  |
| Physics          | TYBSc |             | CO2    | Describe about the process of radioactivity, all radioactive decay and their detail study  |
| Physics          | TYBSc |             | CO3    | Know about the nuclear models and their roles in explaining the ground state properties of the nucleus –(i) the liquid drop model, its justification so far as the nuclear properties are concerned, the semi-empirical mass formula, (ii) the shell model, evidence of shell structure, magic numbers |
| Physics          | TYBSc |             | CO4    | Understand fission and fusion well as nuclear processes to produce nuclear energy in nuclear reactor and stellar energy in stars.  |
| Physics          | TYBSc |             | CO5    | Learn about the principles and basic constructions of particle accelerators such as the Van-de-Graff generator, cyclotron, betatron and synchrotron.   |
| Physics          | TYBSc |             | CO6    | Gain knowledge of the basic aspects of particle Physics – the fundamental interactions, elementary and composite particles, the classifications of particles and conservation laws associated with them.   |
| Physics          | TYBSc | USPHT64     | CO1    | demonstrate knowledge and broad understanding of Special theory Relativity   |
| Physics          | TYBSc |             | CO2    | understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result   |
| Physics          | TYBSc |             | CO3    | explain the meaning and significance of the postulate of Special Relativity  |
| Physics          | TYBSc |             | CO4    | know the role of relativity in understanding electrodynamics   |
| Physics          | TYBSc |             | CO5    | solve problems based on length contraction, time dilation, velocity addition, Doppler effect, mass energy relation and resolve paradoxes in relativity like twin paradox etc   |
| Physics          | TYBSc | USPHT65     | CO1    | describe the concept, structure and working of a microcontroller based system  |
| Physics          | TYBSc |             | CO2    | describe the port, SFR structure and functions of 8051   |
| Physics          | TYBSc |             | CO3    | associate various 8081 instructions and microprocessor functions   |
| Physics          | TYBSc |             | CO4    | use proper assembly language program structure for a particular task   |
| Physics          | TYBSc |             | CO5    | describe the interfacing of various devices with a microcontroller based system  |
| Physics          | TYBSc |             | CO6    | create simple 8051 assembly language programs  |
| Computer Science | TYCS  | USCST51     | CO1    | After completion of this course, learner should get a clear understanding of AI and different search algorithms used for solving problems.   |
| Computer Science | TYCS  |             | CO2    | The learner should also get acquainted with different learning algorithms and models used in machine learning.   |
| Computer Science | TYCS  | USCST53     | CO1    | Understand various software testing methods and strategies.  |

| Department       | Class | Course code | CO No. | CO   |
|------------------|-------|-------------|--------|--|
| Computer Science | TYCS  |             | CO2    | Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.   |
| Computer Science | TYCS  |             | CO3    | Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.  |
| Computer Science | TYCS  | USCST53     | CO1    | Understand the principles and practices of cryptographic techniques.   |
| Computer Science | TYCS  |             | CO2    | Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application.   |
| Computer Science | TYCS  |             | CO3    | Understand various protocols for network security to protect against the threats in a network.   |
| Computer Science | TYCS  | USCST55     | CO1    | Emphasis on SOAP based web services and associated standards such as WSDL.   |
| Computer Science | TYCS  |             | CO2    | Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services.  |
| Computer Science | TYCS  | USCST56     | CO1    | 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.   |
| Computer Science | TYCS  | USCST57     | CO1    | 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.  |
| Computer Science | TYCS  |             | CO2    | Also implement and evaluate new ideas for solving wireless sensor network design issues.   |
| Computer Science | TYCS  | USCST61     | CO1    | 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.  |
| Computer Science | TYCS  |             | CO2    | Also implement and evaluate new ideas for solving wireless sensor network design issues.   |
| Computer Science | TYCS  | USCST62     | CO1    | After successfully completion of this course, learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open source technology. |
| Computer Science | TYCS  |             | CO2    | Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.   |
| Computer Science | TYCS  |             | CO3    | They should explain the core issues of cloud computing such as security, privacy, and interoperability.  |
| Computer Science | TYCS  | USCST64     | CO1    | After completion of this course, learner should get an understanding of the field of information retrieval and its relationship to search engines.   |
| Computer Science | TYCS  |             | CO2    | It will give the learner an understanding to apply information retrieval models.   |
| Computer Science | TYCS  | USCST65     | CO1    | Learner should review the fundamental concepts of a digital image processing system.   |

| Department             | Class | Course code | CO No. | CO   |
|------------------------|-------|-------------|--------|--|
| Computer Science       | TYCS  |             | CO2    | Analyze the images in the frequency domain using various transforms. Evaluate the techniques for image enhancement and image segmentation. |
| Computer Science       | TYCS  |             | CO3    | Apply various compression techniques.  |
| Computer Science       | TYCS  |             | CO4    | They will be familiar with basic image processing techniques for solving real problems   |
| Computer Science       | TYCS  | USCST66     | CO1    | Learner will know to identify security vulnerabilities and weaknesses in the target applications.  |
| Computer Science       | TYCS  |             | CO2    | They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.            |
| <b>Faculty of Arts</b> |       |             |        |  |
| Marathi                | FYBA  | A101 MRT    | CO1    | कथा या साहित्यप्रकाराची ओळख.,कथा या साहित्यप्रकारचे स्वरूप, घटक आणि प्रकार यांची ओळख.  |
| Marathi                | FYBA  |             | CO2    | निवडक कथांचे अध्ययनाद्वारे आकलन,स्पर्धा परीक्षेसाठी आवश्यक घटक आत्मसात   |
| Marathi                | FYBA  |             | CO3    | स्पर्धा परीक्षेसाठी आवश्यक घटक आत्मसात करून भाषिक कौशल्यांचे उपयोजन .  |
| Marathi                | FYBA  |             | CO4    | अभ्यासास असलेल्या कथांची चिकित्सा, भाषिक कौशल्यविकास.  |
| Marathi                | FYBA  | A102 MRT    | CO1    | कविता या साहित्यप्रकाराची ओळख.कविता या साहित्यप्रकारचे स्वरूप, घटक आणि प्रकार यांची ओळख.   |
| Marathi                | FYBA  |             | CO2    | निवडक कवितांचे अध्ययनाद्वारे आकलन  |
| Marathi                | FYBA  |             | CO3    | स्पर्धा परीक्षेसाठी आवश्यक घटक आत्मसात,स्पर्धा परीक्षेसाठी आवश्यक घटक आत्मसात करून भाषिककौशल्यांचे उ                                       |
| Marathi                | FYBA  |             | CO4    | अभ्यासास असलेल्या कवितांची चिकित्सा, भाषिक कौशल्यविकास.  |
| Marathi                | FYBA  | MRAE101     | CO1    | लेखनविषयक नियमांचा परिचय. मराठी व्याकरणातील मुलभूत घटक परिचय   |
| Marathi                | FYBA  |             | CO2    | सादरीकरण कौशल्ये आत्मसात   |
| Marathi                | FYBA  |             | CO3    | उद्योग व्यवसायविषयक भाषिक कौशल्यांचे उपयोजन .  |
| Marathi                | FYBA  |             | CO4    | विविध प्रकारची भाषिक कौशल्ये कशा रीतीने वापरली जातात ते लक्षात घेणे  |
| Marathi                | FYBA  | MROE101     | CO1    | कोकणातील लोककला, देवतकथा आणि भौगोलिक क्षेत्र,संस्कृती  |
| Marathi                | FYBA  |             | CO2    | शोध, माहिती संकलन  |
| Marathi                | FYBA  |             | CO3    | देवत कथा, लोककलांचे उगमस्थान,स्थान महात्म्य, सादरीकरण समजून घेणे   |
| Marathi                | FYBA  | MROE102     | CO1    | साहित्यातील जीवनाविषयक मूल्य लक्षात घेणे.  |
| Marathi                | FYBA  |             | CO2    | मूल्यांचे मानवी जीवनातील स्थान समजून घेणे  |
| Marathi                | FYBA  |             | CO3    | जीवनमूल्यांचे साहित्यकृतीतील व्यवहारात उपयोजन  |
| Marathi                | FYBA  | MRSE101     | CO1    | अनुवाद व शब्दांकन या संकल्पना समजून घेणे   |
| Marathi                | FYBA  |             | CO2    | अनुवाद वा शब्दांकन करताना लक्षात घ्यावयाचे नियम आत्मसात करणे   |
| Marathi                | FYBA  |             | CO3    | विविध भाषेतील विविध क्षेत्रातील विषयांवरील उत्तमोत्तम लेखनाचे भाषांतर  |
| Marathi                | FYBA  |             | CO4    | भाषांतरित साहित्यकृतींचे भाषिक व सांस्कृतिक मूल्य तपासणे   |
| Marathi                | FYBA  | MRSE102     | CO1    | अनुवाद व शब्दांकन या संकल्पना समजून घेणे   |
| Marathi                | FYBA  |             | CO3    | विविध शासकीय कार्यालयांमध्ये प्रसारित होणाऱ्या पत्रकांचे मराठीत अनुवाद करण्यासाठी नियम समजावून घेणे  |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Marathi    | FYBA  |             | CO4    | अनुवाद वा शब्दांकन करताना लक्षात घ्यावयाचे नियम आत्मसात करून त्याप्रमाणे अनुवाद करणे  |
| Marathi    | FYBA  | MRVS101     | CO1    | बातमी लेखन स्वरूप व विविध प्रकारांची ओळख  |
| Marathi    | FYBA  |             | CO2    | विविध समाजमाध्यमांची ओळख, बातमी प्रसारणाच्या पद्धती कळतील.  |
| Marathi    | FYBA  |             | CO3    | Apply Various tools improvement of handling social media equipment's. वेगवेगळी साधने विकसित करून प्रसारमाध्यमांचा वापर करण्यास शिकणे  |
| Marathi    | FYBA  |             | CO4    | Analyze the correlation between different social medias दोन माध्यमांमध्ये समन्वय साधणे  |
| Marathi    | FYBA  | MRVS102     | CO1    | बातमी लेखन स्वरूप व विविध प्रकारांची ओळख करून घेणे. विषयानुसार वेगळेपण तपासणे   |
| Marathi    | FYBA  |             | CO2    | विविध समाजमाध्यमांची ओळख, बातमी प्रसारणाच्या पद्धती कळतील.  |
| Marathi    | FYBA  |             | CO3    | Apply Various tools improvement of handling social media equipment's. वेगवेगळी साधने विकसित करून प्रसारमाध्यमांचा वापर करण्यास शिकणे.   |
| Marathi    | FYBA  |             | CO4    | Analyze the correlation between different social medias दोन माध्यमांमध्ये समन्वय साधणे  |
| Hindi      | FYBA  | A101HNT     | CO1    | इन दो विधाओं को पढ़ाते समय संदभ में हिंदी साहित्य की प्रवाह के अनुसार स्नातक हर प्रभा हाथी इन विधाओं के विकास को ध्यान में रखें।  |
| Hindi      | FYBA  |             | CO2    | पहले सेमेस्टर पाठ्यक्रम में कहानी और निबंध रखने का तात्पर्य यह दो भाषा की भूल विधा है छात्र इन विधान के रचना को समझें और उसे अवगत करें।   |
| Hindi      | FYBA  |             | CO3    | इन दो विधाओं के रचनाविधान तथा भाषाशैली को समझकर उस पर विचार करें। आर कोशिश करें कि अगर हम कहानी तथा निबंध लिखना चाहें तो उसकी रचना कैसी होनी चाहिए।   |
| Hindi      | FYBA  |             | CO4    | स्नातक हिंदू विधा के सिद्धांतों तथा व्यावहारिक पक्ष को समझें। हार भारतीय तथा पाश्चात्य विद्वानों के दिए तत्वों के अनुसार इसका सभी मूल्यांकन करें।   |
| Hindi      | FYBA  | A102HNT     | CO1    | इस दूसरे सत्र में स्नातकों लिए उपन्यास तथा रेखाचित्र तथा संस्मरण इन तीनों विधाओं की गतिविधों रखने का तात्पर्य अभी तक बच्चों ने स्थूल तथा सूक्ष्म रूप में गद्य पढ़े थे तब उन्हें उपन्यास जैसी भी विस्तृत विधा को पढ़कर उसकी रचना शैली को समझ लेना आवश्यक है इस ग्रुप सेनापति बातों को होगा करें। |
| Hindi      | FYBA  |             | CO2    | स्नातक इस पाठ्यक्रम रचना शिल्प तथा उनके सिद्धांत और व्यावहारिक पक्षों क्या है उसे ध्यान रखें।   |
| Hindi      | FYBA  |             | CO3    | स्नातक दो विधाओं पर अच्छी तरह से विचार करके इसके सैद्धांतिक और व्यावहारिक पक्षों को समझ कर इन्हें रचना शिल्पा पर खुद ही लिखान करें।   |
| Hindi      | FYBA  |             | CO4    | स्नातक इन दो विधाओंको को समझकर उसे सैद्धांतिक तथा व्यावहारिक तत्वों की दृष्टि से इसका मूल्यांकन या समीक्षाएं करें।  |
| Hindi      | FYBA  | HNOE101     | CO1    | पत्रकारिता के स्वरूप अथ परभाषा आदर आदि की जानकारी छात्रों को हर छात्र पत्रकारिता की इतिहास मध्यकाल तथा वर्तमान युग को समझने का प्रयास करके इसे अवगत करें।   |
| Hindi      | FYBA  |             | CO2    | स्नातक हिंदी पत्रकारिता के विकास क्रम को स्वतंत्र पूर्व काल से वर्तमान काल तक याद करें और इस दृष्टि से इस पर विचार करें।  |
| Hindi      | FYBA  |             | CO3    | पत्रकारिता के विविध प्रकारों का का अध्ययन करके वर्तमान पत्रकारिता में कौन से प्रकारों पर लेखन हो जाता है या हो सकता है इस पर विचार करें।  |
| Hindi      | FYBA  |             | CO4    | स्नातक पत्रकारिता के विविध भेदों को समझकर अच्छे पत्रिका में प्रकाशित होने वाले विविध भेदों को पहचान कर खुद इन प्रकार ऊपर उनके अनुसार लिखान करें।  |



| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Hindi      | FYBA  | HNOE102     | CO1    | इस सत्र में औपचारिक पत्रलेखन लिखने का तात्पर्य यह है कि यह पेपर का कला शाखा को छोड़कर अन्य शाखा के लोग अध्ययन करने वाले हैं।   |
| Hindi      | FYBA  |             | CO2    | स्नातक शिक्षा पूरी होने के बाद नौकरी करने के लिए बाहर निकले तो उन्हें किसी भी दफ्तर में काम करते समय इन पत्रों की रचना से अवगत होना जरूरी है।  |
| Hindi      | FYBA  |             | CO3    | औपचारिक पत्रों में सरकारी तथा गैर सरकारी पत्रों की प्रारूप उनको पढ़ाने का तात्पर्य यह है कि बच्चे इनके प्रारूपों को अच्छी तरह से ध्यान में रखें।   |
| Hindi      | FYBA  |             | CO4    | स्नातक आवेदन पत्र, शिकायती पत्र, कार्यालय आदेश, कार्यालय ज्ञापन, परिपत्र, इन सारे पत्रों के नमूने किस प्रकार अलग अलग हैं इसे ध्यान में रखकर किसी भी विषय पर पत्र लिखने के लिए इन प्रारूपों का सही तरीके से उपयोग करें। |
| Hindi      | FYBA  | HNVS101     | CO1    | स्नातक रोजमरा के जीवन में लिखे जाने वाली पत्रों की विविध रूपों को समझने की कोशिश करें और इनके प्रारूप को अवगत करें।  |
| Hindi      | FYBA  |             | CO2    | पत्रों में बधाई, शुभकामना, निवेदन संवेदना सहानुभूति, सांत्वना ऐसे विविध रूपों को समझकर इनके प्रारूप को योग्य तरीके से ध्यान रखें।  |
| Hindi      | FYBA  |             | CO3    | स्नातक अनौपचारिक पत्र कैसे लिखे जाते हैं और अगर हमें व्यवसाय की दृष्टि से पॉपिंग प्रेस खोलना है तो हम कैसे सारी रचनाओं को समझकर उसका उपयोग कर सकते हैं इस पर विचार करें।   |
| Hindi      | FYBA  |             | CO4    | स्नातक इन सारी पत्रों के प्रारूप को समझ ले और विविध प्रारूप के ऊपर खुद विविध पत्र लेखन या कुछ नया हम कैसे कर सकते हैं इसके बारे में विचार करें।  |
| Hindi      | FYBA  | HNVS102     | CO1    | प्रस्तुत प्रश्न पत्र प्रतियोगिता परीक्षा को ध्यान में रखते तैयार किया गया है। ताकि साधारण व्याकरण को समझ सकता है और उसे अवगत कर सकता है।   |
| Hindi      | FYBA  |             | CO2    | स्नातक सारे नियमों को समझ ले और इशारे नमन को ध्यान में रखने की पद्धति को भी समझ ले।  |
| Hindi      | FYBA  |             | CO3    | स्नातक शब्द रचना वाक्य रचना शुद्ध लेखन इन सारी नियमों को समझकर इसकी आधार पर विविध शब्दों वाक्यों शुद्ध वाक्यों और अर्थ उनकी निर्मिति करें।   |
| Hindi      | FYBA  |             | CO4    | स्नातक व्याकरण के नियमों को समझकर पुल गाली प्रतियोगिता परीक्षा में सफलता से उसका निर्वाह करें और आपको को मूल्यांकन कीर्ति समझ में आए।  |
| Hindi      | FYBA  | HNAEI01     | CO1    | स्नातक हिंदी भाषा क ध्वनियों का उच्चारण कैसे किया जाता है। उसे कैसे पढ़ा जाता है इसके कौशल देखो अवगत करें।   |
| Hindi      | FYBA  |             | CO2    | स्नातक हिंदी भाषा पठन पाठन आधी के नियमों को बिहार में रखकर इस पर विचार करें।   |
| Hindi      | FYBA  |             | CO3    | स्नातक हिंदी भाषा वाचन पठन पाठन आदि कौशल को आत्मसात सर के विविध प्रकार के शब्दों शब्दों उसकी लयबद्ध आदि की उपयोगिता को समझ ले।   |
| Hindi      | FYBA  |             | CO4    | स्नातक संवाद तथा संभाषण तथा लिखने में इस सारी पद्धतियों को को आत्मसात करके उसे मूल्यांकन के तौर पर देखें।  |
| Hindi      | FYBA  | HNAEI02     | CO1    | स्नातक हिंदी भाषा क ध्वनियों का उच्चारण कैसे किया जाता है। उसे कैसे पढ़ा जाता है इसके कौशल देखो अवगत करें।   |
| Hindi      | FYBA  |             | CO2    | स्नातक हिंदी भाषा पठन पाठन आधी के नियमों को बिहार में रखकर इस पर विचार करें।   |
| Hindi      | FYBA  |             | CO3    | स्नातक हिंदी भाषा वाचन पठन पाठन आदि कौशल को आत्मसात सर के विविध प्रकार के शब्दों शब्दों उसकी लयबद्ध आदि की उपयोगिता को समझ ले।   |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Hindi      | FYBA  |             | CO4    | स्नातक संवाद तथा संभाषण तथा लिखने में इस सारी पद्धतियों को को आत्मसात करके उसे मूल्यांकन के तौर पर देखें ।   |
| English    | FYBA  | A101ENT     | CO1    | Development of ability to understand living English language in the context of mostly contemporary /current topics presented on the Media (topics within local, national and international contexts) |
| English    | FYBA  |             | CO2    | Acquisition of general knowledge of current happenings through listening and reading of media texts.   |
| English    | FYBA  |             | CO3    | Knowledge of various types/formats of media texts  |
| English    | FYBA  |             | CO4    | Enrichment of skills of note making, note taking, summarization and precise writing  |
| English    | FYBA  |             | CO5    | Acquisition of the skills necessary for interviews, presentations and group discussions.   |
| English    | FYBA  |             | CO6    | Development of skills of interpretation, comparison and analysis of media texts and development of a broad understanding of the Indian, UK and US varieties of English.                              |
| English    | FYBA  | A102ENT     | CO1    | To study and acquire substantial general knowledge and develop a wider awareness of current happenings through listening and reading of media texts  |
| English    | FYBA  |             | CO2    | To acquire the knowledge of various types/formats of media texts and their respective registers  |
| English    | FYBA  |             | CO3    | To apply the enrichment of skills of note making, note taking, summarization and precise writing   |
| English    | FYBA  |             | CO4    | To analyze the acquisition of the skills necessary for compering, anchoring, interviews, presentations and group discussions   |
| English    | FYBA  |             | CO5    | To evaluate the development of skills of interpretation, comparison, analysis and evaluation of media texts  |
| English    | FYBA  |             | CO6    | To develop a broad understanding of the Indian, UK and US varieties of English.  |
| English    | FYBA  | ENAE101     | CO1    | To recognize language proficiency by providing adequate linguistic skills  |
| English    | FYBA  |             | CO2    | To describe various functional aspects of language   |
| English    | FYBA  |             | CO3    | To use a wide range of colloquial language through a variety of exercises  |
| English    | FYBA  |             | CO4    | To identify and explain multiple dialects in the context   |
| English    | FYBA  |             | CO5    | To measure the communicative ability with the help of technological advancement  |
| English    | FYBA  | ENVS101     | CO1    | To review various vocational skills  |
| English    | FYBA  |             | CO2    | To understand the basics of vocational skills  |
| English    | FYBA  |             | CO3    | To use various vocational skills in the proper context   |
| English    | FYBA  |             | CO4    | To identify and explain various platforms for his/her improvisation in skills  |
| English    | FYBA  |             | CO5    | To develop all-pervasive approach towards his /her profession  |
| English    | FYBA  | ENVS102     | CO1    | To review various vocational skills  |
| English    | FYBA  |             | CO2    | To understand the basics of vocational skills  |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| English    | FYBA  |             | CO3    | To use various vocational skills in the proper context  |
| English    | FYBA  |             | CO4    | To identify and explain various platforms for his/her improvisation in skills                   |
| English    | FYBA  |             | CO5    | To develop all-pervasive approach towards his /her profession                                   |
| English    | FYBA  | ENSE101     | CO1    | To review various soft skills   |
| English    | FYBA  |             | CO2    | To understand the basics of soft skills   |
| English    | FYBA  |             | CO3    | To use various vocational skills in the proper context  |
| English    | FYBA  |             | CO4    | To identify and explain various platforms for his/her improvisation in skills                   |
| English    | FYBA  |             | CO5    | To develop all-pervasive approach towards his /her profession                                   |
| English    | FYBA  | ENSE102     | CO1    | To review various soft skills   |
| English    | FYBA  |             | CO2    | To understand the basics of soft skills   |
| English    | FYBA  |             | CO3    | To use various vocational skills in the proper context  |
| English    | FYBA  |             | CO4    | To identify and explain various platforms for his/her improvisation in skills                   |
| English    | FYBA  |             | CO5    | To develop all-pervasive approach towards his /her profession                                   |
| English    | FYBA  | OEEEN101    | CO1    | To recognize language proficiency by providing adequate exposure to reading and writing skills  |
| English    | FYBA  |             | CO2    | To explain the learners towards the functional aspects of language                              |
| English    | FYBA  |             | CO3    | To examine the range of lexical resource through a variety of exercises                         |
| English    | FYBA  | OEEEN102    | CO1    | To recognize language proficiency by providing adequate exposure to reading and writing skills  |
| English    | FYBA  |             | CO2    | To explain the learners towards the functional aspects of language                              |
| English    | FYBA  |             | CO3    | To examine the range of lexical resource through a variety of exercises                         |
| Sociology  | FYBA  | A101SOT     | CO1    | Students will know nature and scope of sociology  |
| Sociology  | FYBA  |             | CO2    | Students will aware about fundamental concepts in sociology                                     |
| Sociology  | FYBA  |             | CO3    | Apply Sociological Understanding to local social problems related to disparities and inequality |
| Sociology  | FYBA  |             | CO4    | Students will learn process of social change  |
| Sociology  | FYBA  | A103SOT     | CO1    | Students will know the concept of Society and Culture   |
| Sociology  | FYBA  |             | CO2    | Students will aware about Social Structure and Social Institutions                              |
| Sociology  | FYBA  |             | CO3    | Students will understand the concept of Religion and Secularization                             |
| Sociology  | FYBA  |             | CO4    | Students will understand process of Social Change and Social Control                            |
| Economics  | FYBA  | C101ECT     | CO1    | Remember the knowledge of basic tools of consumer and producer theory                           |
| Economics  | FYBA  |             | CO2    | Understand the Demand and Production functions.   |
| Economics  | FYBA  |             | CO3    | Apply the Demand and Production functions.  |
| Economics  | FYBA  |             | CO4    | Analyze various cost concepts.  |

| Department | Class        | Course code | CO No. | CO   |
|------------|--------------|-------------|--------|--|
| Economics  | FYBA         |             | CO5    | Evaluate supply and production decisions   |
| Economics  | FYBA         | C102ECT     | CO1    | Remember the concepts of revenue and National income.  |
| Economics  | FYBA         |             | CO2    | Understand the operation of markets and optimisation in an economic context                              |
| Economics  | FYBA         |             | CO3    | Apply various pricing strategies   |
| Economics  | FYBA         |             | CO4    | Analyze the concepts of National income.   |
| Economics  | FYBA         |             | CO5    | Evaluate the concepts of National income.  |
| Economics  | FYBA         | ECVS101     | CO1    | Remember the fundamentals of Agriculture sector and Agro Industries.                                     |
| Economics  | FYBA         |             | CO2    | Understand the Cropping patterns and Horticulture in Konkan.   |
| Economics  | FYBA         |             | CO3    | Apply Economical Understanding to local area problems related to Agriculture sector and Agro Industries. |
| Economics  | FYBA         |             | CO4    | Analyze the problems of Agriculture sector and Agro Industries in Konkan.                                |
| Economics  | FYBA         |             | CO5    | Evaluate the Role of Agriculture sector and Agro Industries in rural development.                        |
| Economics  | FYBA         | ECVS102     | CO1    | Remember the basic concepts of banking and financial services.   |
| Economics  | FYBA         |             | CO2    | Enable the students to understand the knowledge of banking and financial services                        |
| Economics  | FYBA         |             | CO3    | Apply the knowledge of banking to get employment.  |
| Economics  | FYBA         |             | CO4    | Analyze the growth of commercial and applied banking.  |
| Economics  | FYBA         |             | CO5    | Evaluate the Role of commercial and applied banking.   |
| Economics  | FYBA         | ECSE101     | CO1    | Remember various data collection methods for Economics Research  |
| Economics  |              |             | CO2    | Understand the process of preparing the data for further analysis  |
| Economics  | FYBA         | ECSE102     | CO1    | Remember the insurance policy procedures   |
| Economics  |              |             | CO2    | Understand the marketing mix of insurance industry.  |
| Economics  | FYBCom/FYBSc | ECOE101     | CO1    | Remember the rules and theories in Economics useful in daily situations                                  |
| Economics  |              |             | CO2    | Understand and relate the day-to-day situations using rules of economics                                 |
| Economics  | FYBCom/FYBSc | ECOE102     | CO1    | Remember the economic situations and problems in Indian economy before reforms                           |
| Economics  |              |             | CO2    | Understand the important decisions during reforms in Indian Economy                                      |
| Geography  | FYBA         | A101GET     | CO1    | Remember the fundamentals of Physical geography & basic physical processes                               |
| Geography  | FYBA         |             | CO2    | Understand the basics of geomorphic climatic and oceanic processes                                       |
| Geography  | FYBA         |             | CO3    | Apply the understanding of geomorphic climatic and oceanic processes in day-to-day life                  |
| Geography  | FYBA         |             | CO4    | Analyze the geomorphic, atmospheric & oceanic processes  |
| Geography  | FYBA         |             | CO5    | Evaluate the changing nature & scope of physical geography   |
| Geography  | FYBA         |             | CO6    | Create models of geomorphic, atmospheric and oceanic processes   |
| Geography  | FYBA         | GEOE101     | CO1    | Remember the fundamentals of Cartography   |
| Geography  | FYBA         |             | CO2    | Understand the elements of maps needs to be considered at the time of Preparation of the Map             |

| Department | Class          | Course code | CO No. | CO  |
|------------|----------------|-------------|--------|---|
| Geography  | FYBA           |             | CO3    | Apply language of Graphics for the Preparation of Maps  |
| Geography  | FYBA           |             | CO4    | Analyze the maps prepared by others considering the Basic Map Elements  |
| Geography  | FYBA           |             | CO5    | Evaluate the infographics provided through Maps   |
| Geography  | FYBA           |             | CO6    | Create his/her map related to any region considering the standardized parameters                                  |
| Geography  | FYBA           | GESE101     | CO1    | Remember the fundamentals of Maps and Thematic Maps.  |
| Geography  | FYBA           |             | CO2    | Understand the elements of maps.  |
| Geography  | FYBA           |             | CO3    | Apply Spatial Statistical Techniques in Thematic Mapping.   |
| Geography  | FYBA           |             | CO4    | Analyze the different types of thematic maps.   |
| Geography  | FYBA           |             | CO5    | Evaluate the infographics provided through thematic maps.   |
| Geography  | FYBA           |             | CO6    | Create his/her thematic map using spatial-statistical techniques.   |
| Geography  | FYBA           | GEVS101     | CO1    | Remember the fundamentals of Map Elements   |
| Geography  | FYBA           |             | CO2    | Understand different types of map elements and its relevance.   |
| Geography  | FYBA           |             | CO3    | Apply Map Elements for the preparation of Maps.   |
| Geography  | FYBA           |             | CO4    | Analyze the correlation between different Map Elements  |
| Geography  | FYBA           |             | CO5    | Evaluate the map elements used in different maps.   |
| Geography  | FYBA           |             | CO6    | Create a map using the map elements.  |
| Geography  | FYBA and FYBCo | GEVE101     | CO1    | Remember the fundamentals of environment, natural resources, environmental issues, biodiversity etc.              |
| Geography  | FYBA           |             | CO2    | Understand the Changing man-environment interaction, environmental issues, ethics, biodiversity etc.              |
| Geography  | FYBA           |             | CO3    | Apply SDG framework to local environment.   |
| Geography  | FYBA           |             | CO4    | Analyze the Local environmental scenario with the global environment.   |
| Geography  | FYBA           |             | CO5    | Evaluate environmental treaties & its implementation.   |
| Geography  | FYBA           |             | CO6    | Create a database concerning the quality of the environment in the local area.                                    |
| Geography  | FYBA           | A102GET     | CO1    | Remember the fundamentals of human geography, population, settlements, and migrations.                            |
| Geography  | FYBA           |             | CO2    | Understand the patterns of human population, settlements, and migrations.   |
| Geography  | FYBA           |             | CO3    | Apply Geographical Understanding to local area problems related to human population, settlements, and migrations. |
| Geography  | FYBA           |             | CO4    | Analyze the changing patterns of the human population, settlements, and migrations.                               |
| Geography  | FYBA           |             | CO5    | Evaluate the Role of Geographical components in changing dimensions of population, settlements, and migrations.   |
| Geography  | FYBA           | GEOE102     | CO1    | Remember the fundamentals of Q-GIS.   |
| Geography  | FYBA           |             | CO2    | Understand how to incorporate the elements of maps using Q-GIS.   |

| Department        | Class          | Course code | CO No. | CO   |
|-------------------|----------------|-------------|--------|--|
| Geography         | FYBA           |             | CO3    | Apply Q-GIS in Thematic Mapping  |
| Geography         | FYBA           |             | CO4    | Analyze the different types of thematic maps prepared through Q-GIS                                  |
| Geography         | FYBA           |             | CO5    | Evaluate the infographics provided through thematic maps in Q-GIS                                    |
| Geography         | FYBA           |             | CO6    | Create his/her thematic map using Q-GIS  |
| Geography         | FYBA and FYBCo | GESE102     | CO1    | Remember the fundamentals of Q-GIS.  |
| Geography         | FYBA           |             | CO2    | Understand how to incorporate the elements of maps using Q-GIS.                                      |
| Geography         | FYBA           |             | CO3    | Apply Q-GIS in Thematic Mapping  |
| Geography         | FYBA           |             | CO4    | Analyze the different types of thematic maps prepared through Q-GIS                                  |
| Geography         | FYBA           |             | CO5    | Evaluate the infographics provided through thematic maps in Q-GIS                                    |
| Geography         | FYBA           |             | CO6    | Create his/her thematic map using Q-GIS  |
| Geography         | FYBA           | GEVS102     | CO1    | Fundamentals of GIS  |
| Geography         | FYBA           |             | CO2    | Understand the fundamentals of Q-GIS Software  |
| Geography         | FYBA           |             | CO3    | Apply the Q-GIS software for map creation.   |
| Geography         | FYBA           |             | CO4    | Analyze the different tools available in Q-GIS.  |
| Geography         | FYBA           |             | CO5    | Evaluate the map elements used in Q-GIS.   |
| Geography         | FYBA           |             | CO6    | Create a map using the Q-GIS software.   |
| Geography         | FYBA           | GEVE102     | CO1    | Remember the physical, social, cultural, economic & historical background of India                   |
| Geography         | FYBA           |             | CO2    | Understand the background of nomenclature & locational significance of India                         |
| Geography         | FYBA           |             | CO3    | Analyze the physical, social, cultural & economic situation of India                                 |
| Geography         | FYBA           |             | CO4    | Evaluate physical, social, cultural & economic condition of India                                    |
| B.Voc.Sustainable | FYBA           | SA108SAP    | CO1    | Recall plant names, characteristics, and growth requirements.  |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand the principles of organic and inorganic pesticides for effective pest control.            |
| B.Voc.Sustainable | FYBA           | SA109SAT    | CO1    | Remember the basics of principles and practices of organic farming                                   |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand the procedures in nutrient management practices for better soil health and soil fertility |
| B.Voc.Sustainable | FYBA           | S110SAP     | CO1    | Remember the basics of principles and practices of organic farming                                   |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand the procedures in nutrient management practices for better soil health and soil fertility |
| B.Voc.Sustainable | FYBA           | S111SAT     | CO1    | Remember the Basics of Agricultural waste management and its different type                          |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand the concept of agricultural waste and its significance in sustainable agriculture.        |
| B.Voc.Sustainable | FYBA           | SAOE102     | CO1    | Remember the basics of Beekeeping technology   |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand Honeybee biology and Behaviour  |
| B.Voc.Sustainable | FYBA           | SASE102     | CO1    | Remember the importance water management in agriculture.   |
| B.Voc.Sustainable | FYBA           |             | CO2    | Understand irrigation systems and technologies.  |
| English           | SYBA           | UAENG11     | CO1    | To initiate the learners into new aspect of English Language   |

| Department  | Class          | Course code | CO No. | CO   |
|-------------|----------------|-------------|--------|--|
| English     | SYBA           |             | CO2    | To acquainte with language and communication, communicative and functional grammar as well as corporate lingua-franca      |
| English     | SYBA           |             | CO3    | To develop sensitivity to nature and fellow human beings   |
| English     | SYBA           |             | CO4    | To develop communicative ability among learners  |
| English     | SYBA           | UAENG21     | CO1    | Acquainting the learners of literature with the various genres and literary terms of twentieth century American Literature |
| English     | SYBA           |             | CO2    | Sensitizing the learners to the themes and styles of American Literature   |
| English     | SYBA           |             | CO3    | texts  |
| English     | SYBA           |             | CO4    | introducing them to the literary works representing them   |
| Sociology   | SYBA           | UASOC 31    | CO1    | To Introduce Students to the Indian Sociological Traditions.   |
| Sociology   | SYBA           |             | CO2    | To Familiarise Students with the Research traditions in Indian Sociology   |
| Sociology   | SYBA           |             | CO3    | To Acquaint Students with the Emerging Issues in Indian society  |
| Sociology   | SYBA           | UASOC 32    | CO1    | To bring awareness and sensitivity among the students towards contemporary issues.   |
| Sociology   | SYBA           |             | CO2    | To inculcate responsibilities and promote equality.  |
| Sociology   | SYBA           | UASOC 41    | CO1    | To introduce various theoretical perspectives in Indian society that have shaped the concept of development.               |
| Sociology   | SYBA           |             | CO2    | To help students to gain an insight into emerging issues and contemporary debates within the development discourse.        |
| Sociology   | SYBA           | UASOC 42    | CO1    | To introduce students to the relevance and varied possibilities for future studies in sociology.                           |
| Sociology   | SYBA           |             | CO2    | It make's students aware about the new vibrant fields in sociology.  |
| Sociology   | SYBA           |             | CO3    | scenario.  |
| Enhancement | SY BA/Bcom/BSc | UAABE 30    | CO1    | To enhance language Proficiency.   |
| Enhancement | SY BA/Bcom/BSc |             | CO2    | To Orient the learners towards the functional aspects of language.   |
| Enhancement | SY BA/Bcom/BSc |             | CO3    | To provide entire information to students of election process in India.  |
| Enhancement | SY BA/Bcom/BSc |             | CO4    | To suggests some measures to the students for reduce mentally stress and conflict.   |
| Enhancement | SY BA/Bcom/BSc |             | CO5    | To develop interest in Social Service, Physical Education and Yoga.  |
| Enhancement | SY BA/Bcom/BSc |             | CO6    | To create a human resource of organized, trained and motivate youth  |
| Enhancement | SY BA/Bcom/BSc | UAABE 40    | CO1    | To enhance language Proficiency.   |
| Enhancement | SY BA/Bcom/BSc |             | CO2    | To Orient the learners towards the functional aspects of language.   |

| Department  | Class          | Course code | CO No. | CO  |
|-------------|----------------|-------------|--------|---|
| Enhancement | SY BA/Bcom/BSc |             | CO3    | To provide entire information to students of election process in India.                       |
| Enhancement | SY BA/Bcom/BSc |             | CO4    | To develop an understanding of the interdisciplinary and holistic nature of the environment;  |
| Enhancement | SY BA/Bcom/BSc |             | CO5    | To develop interest in Social Service, Physical Education and Yoga.                           |
| Enhancement | SY BA/Bcom/BSc |             | CO6    | To provide an understanding of interactions between people and the environment;               |
| Enhancement | SY BA/Bcom/BSc |             | CO7    | To increase an awareness of the importance of living in harmony with the environment;         |
| Enhancement | SY BA/Bcom/BSc |             | CO8    | environmental problems.   |
| Enhancement | SY BA/Bcom/BSc |             | CO9    | To understand current social issues in India.   |
| Enhancement | SY BA/Bcom/BSc |             | CO10   | To develop interest in Social Service, Physical Education and Yoga.                           |
| Enhancement | SY BA/Bcom/BSc |             | CO11   | To inculcate a spirit of adventure and team work among the students                           |
| Hindi       | SYBA           | UAHIN32     | CO1    | जाता है।  |
| Hindi       | SYBA           |             | CO2    | खोलें और अनुवाद के विभिन्न प्रकारों से बच्चे परिचित हो जाते हैं।                              |
| Hindi       | SYBA           |             | CO3    | मिलना इस पाठ्यक्रम का उद्देश्य है।  |
| Hindi       | SYBA           |             | CO4    | लेखन का परिचय मिल जाता है।  |
| Hindi       | SYBA           |             | CO5    | सिद्ध हो सकते हैं।  |
| Hindi       | SYBA           | UAHIN42     | CO1    | बच्चों के सामने जनसंचार का सही अर्थ प्रस्तुत करता है।   |
| Hindi       | SYBA           |             | CO2    | बच्चे परंपरागत जनसंचार माध्यम अर्थात इतिहास पूर्वकाल से परिचित हो जाते हैं।                   |
| Hindi       | SYBA           |             | CO3    | इस सत्र में समाचार लेखन तथा संपादकीय कैसे लिखा जाता है इस कौशल्य से बच्चे परिचित हो जाते हैं। |
| Hindi       | SYBA           |             | CO4    | फीचर लेखन कैसे करना है यह साक्षात्कार कैसे लेना है इस कौशल्य से बच्चे परिचित हो जाते हैं।     |
| Hindi       | SYBA           |             | CO5    | फिल्म समीक्षा, पटकथा, लेखन संवाद लेखन विज्ञापन लेखन आदि के कौशल्य से बच्चे परिचित होते हैं।   |
| Economics   | SYBA           | UGECO31     | CO1    | analyse the changes in the demand-supply equilibrium in the marke                             |
| Economics   | SYBA           |             | CO2    | analyse cost conditions of a firm and industry  |
| Economics   | SYBA           |             | CO3    | understand the concept of factor market in details  |
| Economics   | SYBA           |             | CO4    | know equilibrium conditions in various market situations                                      |
| Economics   | SYBA           | UGECO41     | CO1    | understand the basic macro- economic concepts   |
| Economics   | SYBA           |             | CO2    | understand the basic concepts in Monetary Economics   |
| Economics   | SYBA           |             | CO3    | analyse the working of economic policies  |
| Economics   | SYBA           |             | CO4    | understand the basic concepts in International Economics                                      |



| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Economics  | SYBA  | UAECO42     | CO1    | Remember the knowledge of Basic concepts of Public Finance and Indian Economy.                         |
| Economics  | SYBA  |             | CO2    | Understand Changing role and functions of the government.  |
| Economics  | SYBA  |             | CO3    | Get benefits from the recent Government policies for the Agricultural, Industrial and service sectors. |
| Economics  | SYBA  |             | CO4    | Analyze Public Budgets of different years.   |
| Economics  | SYBA  |             | CO5    | Evaluate sector wise composition of Indian economy   |
| Economics  | SYBA  |             | CO6    | Create employment opportunities for self and others.   |
| Marathi    | SYBA  | 31/41       | CO1    | read, write and express the language skills,   |
| Marathi    | SYBA  |             | CO2    | identify the various genres of literature for e.g. Novels and Autobiographies                          |
| Marathi    | SYBA  |             | CO3    | develop the knowledge level and aware about the recent trends in the literature                        |
| Marathi    | SYBA  |             | CO4    | implement universal values while living a life   |
| Marathi    | SYBA  | 32/42       | CO1    | know the history of the origin of language   |
| Marathi    | SYBA  |             | CO2    | aware about the recent literature in Malavani Language   |
| Marathi    | SYBA  |             | CO3    | know the various Dialects of Marathi Language (kokani )  |
| Marathi    | SYBA  |             | CO4    | know the variations and deviations between regional language   |
| Marathi    | SYBA  |             | CO5    | do Critical analysis of the Language   |
| Marathi    | SYBA  | 33/43       | CO1    | read, write and express the language skills,   |
| Marathi    | SYBA  |             | CO2    | Students will be able to create awareness about the social issues                                      |
| Marathi    | SYBA  |             | CO3    | students will be able to develop communication skill and relationship among the Society                |
| Marathi    | SYBA  |             | CO4    | Students will be able to know the work of various Non Government Agencies                              |
| Marathi    | SYBA  |             | CO5    | Students should get the practical knowledge of developing Public Relation                              |
| Geography  | SYBA  | UAGET21     | CO1    | Remember the fundamentals of environmental geography, ecosystem, biodiversity, etc.                    |
| Geography  | SYBA  |             | CO2    | Understand the patterns of the ecosystem, contemporary environmental issues, biodiversity, natural     |
| Geography  | SYBA  |             | CO3    | Apply Geographical and Socio-Cultural Understanding to solve the local environment and                 |
| Geography  | SYBA  |             | CO4    | Analyze the changing man-environment relationship and contemporary environmental issues.               |
| Geography  | SYBA  |             | CO5    | Evaluate the success and failure of Environmental Movements.   |
| Geography  | SYBA  |             | CO6    | Create Local Environmental Movement with the view to Protecting Environment in the Region.             |
| Geography  | SYBA  | UAGET31     | CO1    | Remember the fundamentals of climatology, atmosphere, weather, climate, humidity, precipitation,       |

| Department | Class | Course code       | CO No. | CO   |
|------------|-------|-------------------|--------|--|
| Geography  | SYBA  |                   | CO2    | Understand the patterns of air pressure belts, atmospheric circulation, and the distribution of                  |
| Geography  | SYBA  |                   | CO3    | Apply climatic understandings to solve global climatic issues.   |
| Geography  | SYBA  |                   | CO4    | Analyze the changing relationship between climatic phenomena.  |
| Geography  | SYBA  |                   | CO5    | Evaluate the components affecting the origin of the Indian Monsoon.  |
| Geography  | SYBA  |                   | CO6    | Create graphs and charts to depict the local climatic data   |
| Marathi    | TYBA  | 51/61             | CO1    | know the History of medieval literature  |
| Marathi    | TYBA  |                   | CO2    | identify the various genres of literature created in Medieval Era  |
| Marathi    | TYBA  |                   | CO3    | identified Literature created in the medieval period   |
| Marathi    | TYBA  |                   | CO4    | know the various Dialects of Marathi Language and to know the  |
| Marathi    | TYBA  | 52/ 62            | CO1    | Students should know Indian Literary Theory, Criticism and aesthetics  |
| Marathi    | TYBA  |                   | CO2    | know Western literary theory and critique  |
| Marathi    | TYBA  |                   | CO3    | examine literature based on indian and Western literary theories   |
| Marathi    | TYBA  |                   | CO4    | Students should know how to test any literary work based on literary theory                                      |
| Marathi    | TYBA  | UAMARCOM<br>53/63 | CO1    | inculcate universal values among the learners  |
| Marathi    | TYBA  |                   | CO2    | Students will be able to identify the various genres of literature created in Modern Era                         |
| Marathi    | TYBA  |                   | CO3    | know various movements in the modern Era   |
| Marathi    | TYBA  |                   | CO4    | to inculcate reading habits and critical thinking  |
| Marathi    | TYBA  | UAMARCOM<br>54/64 | CO1    | to know various syntax used in the language  |
| Marathi    | TYBA  |                   | CO2    | to make the learners capable for the functional uses of language   |
| Marathi    | TYBA  |                   | CO3    | to make the learners capable to work in the fields like translation, research and media etc.                     |
| Marathi    | TYBA  |                   | CO4    | to make the learners capable the creative uses of language elements, parts of speech and other grammatical units |
| Marathi    | TYBA  | UAMARCOM<br>55/65 | CO1    | to make the learners aware about various literary and critical trends  |
| Marathi    | TYBA  |                   | CO2    | Students will be able to identify the various genres of literature created in Modern Era                         |
| Marathi    | TYBA  |                   | CO3    | Students should be identified Literature created in the medieval period  |
| Marathi    | TYBA  |                   | CO4    | pursue higher education in the same field  |
| Marathi    | TYBA  |                   | CO5    | to make the learners able to study comparative literature  |

| Department | Class | Course code          | CO No. | CO  |
|------------|-------|----------------------|--------|---|
| Marathi    | TYBA  | UAMARCOM<br>56/66    | CO1    | Students will be able to use the various writing skills in Language                                       |
| Marathi    | TYBA  |                      | CO2    | Students will be able to use the various skills in Performing Arts for e.g. Interview and Stage Shows     |
| Marathi    | TYBA  |                      | CO3    | Develop the skill of applying Concepts and Techniques used in Social Medias                               |
| Marathi    | TYBA  |                      | CO4    | Students will be able to learn Cooperation and Teamwork while learning Interview techniques and anchoring |
| Marathi    | TYBA  |                      | CO5    | Develop the Moral and ethical awareness   |
| Economics  | TYBA  | UGEEO51              | CO1    | understand the concept of Monopoly thoroughly   |
| Economics  | TYBA  |                      | CO2    | know the basics of game theory and it's uses in economic analysis   |
| Economics  | TYBA  |                      | CO3    | understand the concept of oligopoly market and various models explaining oligopoly market                 |
| Economics  | TYBA  |                      | CO4    | understand concepts related to welfare economics.   |
| Economics  | TYBA  | UAECO52 &<br>UAECO62 | CO1    | Students will be equipped with the knowledge related to economic growth and development,                  |
| Economics  | TYBA  |                      | CO2    | Understand the role of Technology in Economic development   |
| Economics  | TYBA  |                      | CO3    | Apply the knowledge to correlate migration with development.  |
| Economics  | TYBA  |                      | CO4    | Analyze demographic features of different areas of the country as well as different countries.            |
| Economics  | TYBA  |                      | CO5    | Evaluate Government policies related to sustainable development for environment conservation.             |
| Economics  | TYBA  |                      | CO6    | Create awareness about structural issues in development process,  |
| Economics  | TYBA  | UAECO53 &<br>UAECO63 | CO1    | Students will be equipped with the knowledge of Indian Agriculture sector and cooperative movement.       |
| Economics  | TYBA  |                      | CO2    | Understand water management and measures taken to improve Agricultural productivity.                      |
| Economics  | TYBA  |                      | CO3    | Use new marketing techniques for the agriculture products.  |
| Economics  | TYBA  |                      | CO4    | Analyze different sources of cooperative finance in India.  |
| Economics  | TYBA  |                      | CO5    | Evaluate Government's credit, marketing and pricing policy for agriculture sector.                        |
| Economics  | TYBA  |                      | CO6    | Establish different kinds of cooperative organizations.   |
| Economics  | TYBA  | UAECO54              | CO1    | understand concepts of research   |
| Economics  | TYBA  |                      | CO2    | know the sources of data collection and their appropriate use   |
| Economics  | TYBA  |                      | CO3    | analyze the collected data from the research point of view  |
| Economics  | TYBA  |                      | CO4    | understand some statistical concepts for data analysis  |
| Economics  | TYBA  | UAECO55 &<br>UAECO65 | CO1    | Recognise the relationship between environment and development.   |
| Economics  | TYBA  |                      | CO2    | Understand the evolution of Economic thoughts.  |

| Department | Class | Course code       | CO No. | CO  |
|------------|-------|-------------------|--------|---|
| Economics  | TYBA  |                   | CO3    | Apply economic models and theories in their daily lives.  |
| Economics  | TYBA  |                   | CO4    | Analyze difference between Classical, neo- classical economic ideas and Keynesian ideas.  |
| Economics  | TYBA  |                   | CO5    | Evaluate environmental policies.  |
| Economics  | TYBA  |                   | CO6    | Create awareness about Economic causes of environmental problems and conservation.  |
| Economics  | TYBA  | UAECO56 & UAECO66 | CO1    | Remember modern theories of international Trade.  |
| Economics  | TYBA  |                   | CO2    | Understand functioning of international Financial Institutions and International Debt Problem.                                    |
| Economics  | TYBA  |                   | CO3    | Apply knowledge related to international trade in professional or daily lives.  |
| Economics  | TYBA  |                   | CO4    | Analyze international Trade policies and practices.   |
| Economics  | TYBA  |                   | CO5    | Evaluate emerging new International Economic Order.   |
| Economics  | TYBA  | UAECO61           | CO1    | understand the post Keynesian development in Economics  |
| Economics  | TYBA  |                   | CO2    | explain the trade cycles with the help of some important theories   |
| Economics  | TYBA  |                   | CO3    | understand how the exchange rate is determined between two nations  |
| Economics  | TYBA  |                   | CO4    | know the International Monetary History   |
| Economics  | TYBA  | UAECO64           | CO1    | understand the statistical applications in research   |
| Economics  | TYBA  |                   | CO2    | understand the concept of Index Number and its application  |
| Economics  | TYBA  |                   | CO3    | formulate a good hypothesis will know the basics behind testing it  |
| Economics  | TYBA  |                   | CO4    | understand the basics of research report writing  |
| Hindi      | TYBA  | UAHIN51           | CO1    | विद्यार्थियों का हिन्दी साहित्य के प्राचीन, मध्यकालीन और आधुनिक इतिहास का बंध करना I  |
| Hindi      | TYBA  |                   | CO2    | हिन्दी साहित्य के इतिहास संबंधी साहित्य के विकासक्रम, प्रवृत्तियों एवं परिवेश का परिचय करना।                                      |
| Hindi      | TYBA  |                   | CO3    | विद्यार्थियों का पारंपरिक भारतीय काव्यशास्त्र के मानदंडों से परिचय करना।  |
| Hindi      | TYBA  |                   | CO4    | सामाजिक परिवर्तन हेतु वचारेक प्रसार का अवगत कराते हुए विविध नव्य सामाजिक वचारेक आदालनों की पृष्ठभूमि, विविध विमर्शों को दर्शाना I |
| Hindi      | TYBA  | UAHIN52           | CO1    | विद्यार्थियों का हिन्दी का आधुनिककालीन गद्य-पद्य विधाओं का प्रासिद्ध, प्रचलित रचनाओं एवं परिवेश का जानकारी प्रदान करना I          |
| Hindi      | TYBA  |                   | CO2    | हिंदी साहित्य पर पड़ वज्ञानिकतथा सामाजिक प्रभावों से अवगत करना।   |
| Hindi      | TYBA  |                   | CO3    | विद्यार्थियों का पारंपरिक भारतीय काव्यशास्त्र के मानदंडों से परिचय करना।  |
| Hindi      | TYBA  |                   | CO4    | सामाजिक परिवर्तन हेतु वचारेक प्रसार का अवगत कराते हुए विविध नव्य सामाजिक वचारेक आदालनों की पृष्ठभूमि, विविध विमर्शों को दर्शाना I |
| Hindi      | TYBA  | UAHIN53           | CO1    | विद्यार्थियों का भाषा के सामाजिक अध्ययन के महत्व से अवगत करना I   |
| Hindi      | TYBA  |                   | CO2    | भाषा विज्ञान का उपयोगता तथा भाषा एवं लिपि-विज्ञान के विभिन्न अंगों का व्यावहारिक परिचय करना।                                      |
| Hindi      | TYBA  |                   | CO3    | जनसंचार, सूचना प्रौद्योगिकी, सोशल मीडिया के अधुनातन माध्यमों में हिन्दी के प्रयोग, प्रसार से अवगत करना।                           |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Hindi      | TYBA  |             | CO4    | हिन्दी के माध्यम से राजगार की सभावनाओं की विद्यार्थियों के समक्ष लाना।   |
| Hindi      | TYBA  | UAHIN61     | CO1    | विद्यार्थियों की पारंपरिक भारतीय काव्यशास्त्र के मानदंडों से परिचय करना।   |
| Hindi      | TYBA  |             | CO2    | विद्यार्थियों की भाषा के सामाजिक अध्ययन के महत्व से अवगत कराना।  |
| Hindi      | TYBA  |             | CO3    | सामाजिक परिवर्तन हेतु वचनारक प्रसार को अवगत कराते हुए विविध नव्य सामाजिक वचनारक आंदोलनों की पृष्ठभूमि, विविध विमर्शों को दर्शाना।  |
| Hindi      | TYBA  |             | CO4    | आधुनिक साहित्य की प्रवृत्तियों के विकास से अवगत कराते हुए साहित्य के सामाजिक, मानवीय सरकारों के साथ पर्यावरण-चेतना को समृद्ध करना। |
| Hindi      | TYBA  | UAHIN62     | CO1    | स्नातकोत्तर दार्शनिक, सामाजिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवनशैली संबंधी मुद्दों का परिचय कराना।                          |
| Hindi      | TYBA  |             | CO2    | आधुनिक साहित्य की प्रवृत्तियों के विकास से अवगत कराते हुए साहित्य के सामाजिक, मानवीय सरकारों के साथ पर्यावरण-चेतना को समृद्ध करना। |
| Hindi      | TYBA  |             | CO3    | विद्यार्थियों को हिन्दी की आधुनिककालीन गद्य-पद्य विधाओं का प्रसिद्ध, प्रचलित रचनाओं एवं परिवेश की जानकारी प्रदान कराना।            |
| Hindi      | TYBA  |             | CO4    | हिंदी साहित्य पर पड़े वैज्ञानिक तथा सामाजिक प्रभावों से अवगत कराना।  |
| Hindi      | TYBA  | UAHIN63     | CO1    | हिंदी साहित्य पर पड़े वैज्ञानिक तथा सामाजिक प्रभावों से अवगत कराना।  |
| Hindi      | TYBA  |             | CO2    | भाषा विज्ञान की उपयोगिता तथा भाषा एवं लिपि-विज्ञान के विभिन्न अंगों का व्यावहारिक परिचय कराना।                                     |
| Hindi      | TYBA  |             | CO3    | जनसंचार, सूचना प्रौद्योगिकी, सोशल मीडिया के अधुनातन माध्यमों में हिन्दी के प्रयोग, प्रसार से अवगत कराना।                           |
| Hindi      | TYBA  |             | CO4    | हिन्दी में अनुवाद तथा सवाददाता आदि में राजगार की सभावनाओं की विद्यार्थियों के समक्ष लाना।  |
| English    | TYBA  | UAENG51     | CO1    | To understand the distinctive features of English literature of the 16th, 17th and 18th centuries                                  |
| English    | TYBA  |             | CO2    | To comprehend how background influences shaped writers' thinking   |
| English    | TYBA  |             | CO3    | To recognize and appreciate the literary masters who dominated the scene   |
| English    | TYBA  |             | CO4    | To grasp the different writing styles that each age adopted.   |
| English    | TYBA  | UAENG61     | CO1    | use some important critical terms  |
| English    | TYBA  |             | CO2    | become aware the nature and function of literature and criticism   |
| English    | TYBA  |             | CO3    | impart the technique of close reading of literary texts  |
| English    | TYBA  |             | CO4    | understand the various literary theories and critical approaches be familiar with the tenets of practical criticism                |
| English    | TYBA  | UAENG52     | CO1    | Gain a basic understanding of phonetics, morphology and word transformation  |
| English    | TYBA  |             | CO2    | Have improved speaking skills  |
| English    | TYBA  |             | CO3    | Have developed adequate knowledge of the rules of grammar, grammatical analysis and sentence transformation                        |
| English    | TYBA  |             | CO4    | Write effectively in various domains.  |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Sociology  | TYBA  | UASOC 51    | CO1    | To provide the students of Sociology with the understanding of Sociological Theory  |
| Sociology  | TYBA  |             | CO2    | To train students in the application of these theories to social situations   |
| Sociology  | TYBA  | UASOC 52    | CO1    | To introduce students to the area of industrial sociology   |
| Sociology  | TYBA  |             | CO2    | To help students to develop sociological understanding of the changes taking place in the area  |
| Sociology  | TYBA  | UASOC 53    | CO1    | To trace the evolution of Gender as a category of social analysis   |
| Sociology  | TYBA  |             | CO2    | To trace the emergence of women's movement in India and the history of their struggles  |
| Sociology  | TYBA  | UASOC 54    | CO1    | To familiarize the students with role and functions of human resource development at the micro and macro level.   |
| Sociology  | TYBA  |             | CO2    | To create an awareness of the various issues involved in the development of human resources with particular emphasis on social and cultural factors.          |
| Sociology  | TYBA  | UASOC 55    | CO1    | To develop an understanding of social movements in terms of various concepts and theories of social movements   |
| Sociology  | TYBA  |             | CO2    | To trace the shifts in the social movements landscape in India.   |
| Sociology  | TYBA  |             | CO3    | To explain the emergence of new people's movements in the neo liberal era.  |
| Sociology  | TYBA  | UASOC 56    | CO1    | To provide students with an orientation to Quantitative Social Research   |
| Sociology  | TYBA  |             | CO2    | To acquaint students with the important concepts, techniques and methods in the quantitative social research process  |
| Sociology  | TYBA  |             | CO3    | To enable students to apply theoretical knowledge of social research to field study. Students are required to submit a project based on original field study. |
| Sociology  | TYBA  | UASOC 61    | CO1    | To provide the student with the understanding of Theoretical Anthropology.  |
| Sociology  | TYBA  |             | CO2    | To train students in the application of these theories to social situations.  |
| Sociology  | TYBA  | UASOC 62    | CO1    | To develop a sociological understanding of the issues related to the informal sector.   |
| Sociology  | TYBA  |             | CO2    | To introduce students to the growing sector of informal workers in the Indian economy   |
| Sociology  | TYBA  |             | CO3    | To introduce students to the understanding of issues related with the informal sector in the context of globalization.  |
| Sociology  | TYBA  |             | CO4    | To engage students with current debates on outsourcing, downsizing, social clause, social security and role of ICT  |
| Sociology  | TYBA  | UASOC 63    | CO1    | To understand new and emerging issues in the Indian feminist landscape  |
| Sociology  | TYBA  |             | CO2    | To understand newer methods of protest and resistance   |
| Sociology  | TYBA  | UASOC 64    | CO1    | To familiarize students with dynamics of organizations and diverse strategies useful in developing human resources.   |
| Sociology  | TYBA  |             | CO2    | To create an understanding of human resource planning to social development and comprehend the challenges faced by organizations in a global context.         |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Sociology  | TYBA  | UASOC 65    | CO1    | To sensitise students to the sociological significance of the study of marginalised groups  |
| Sociology  | TYBA  |             | CO2    | To create awareness of historically disprivileged groups in Indian society  |
| Sociology  | TYBA  | UASOC 66    | CO1    | To provide students with an orientation to Quantitative Social Research   |
| Sociology  | TYBA  |             | CO2    | To acquaint students with the important concepts, techniques and methods in the quantitative social research process  |
| Sociology  | TYBA  |             | CO3    | To enable students to apply theoretical knowledge of social research to field study   |
| Sociology  | TYBA  |             | CO4    | Students are required to submit a project based on original field study.  |
| Geography  | TYBA  | UAGET51     | CO1    | Remember the fundamentals of the settlement geography.  |
| Geography  | TYBA  |             | CO2    | Understand the patterns of rural and urban settlements, their structure, nature & scope of settlement Geography, etc.   |
| Geography  | TYBA  |             | CO3    | Apply Geographical Understanding to address the local problems related to human settlements.  |
| Geography  | TYBA  |             | CO4    | Analyze the changing patterns of the rural and urban settlements.   |
| Geography  | TYBA  |             | CO5    | Evaluate the role of geographical mechanisms in changing the dimensions of rural and urban settlements.   |
| Geography  | TYBA  |             | CO6    | Create cartographic products related to rural and urban settlements.  |
| Geography  | TYBA  | UAGET52-A   | CO1    | Remember the administrative, physiographic, and climatic divisions of India.  |
| Geography  | TYBA  |             | CO2    | Understand the pattern of geographical settings, natural resources, human resources, agriculture, fishing, livestock resources, Industries, trades, and transports in Maharashtra.  |
| Geography  | TYBA  |             | CO3    | Apply climatic understandings for the analysis of agricultural development.   |
| Geography  | TYBA  |             | CO4    | Analyze the geographical settings, natural resources, human resources, agriculture, fishing, livestock resources, Industries, trades, and transports in Maharashtra.  |
| Geography  | TYBA  |             | CO5    | Evaluate the components affecting climatic conditions in Maharashtra.   |
| Geography  | TYBA  |             | CO6    | Create thematic maps of the natural resources, agriculture, industries, trade, transport, etc. in Maharashtra   |
| Geography  | TYBA  | UAGET52-B   | CO1    | Remember the fundamentals of population geography, population dynamics, and theories of population growth and migrations.   |
| Geography  | TYBA  |             | CO2    | Understand the pattern of Size and distribution, including the rural-urban distribution of population and also population dynamics – past and present trends in growth and its spatial manifestation; components of population change, viz., fertility, mortality, and migration. |
| Geography  | TYBA  |             | CO3    | Apply local area problems related to population.  |
| Geography  | TYBA  |             | CO4    | The geographic analysis of population phenomena, the inter-relations among real differences in population with those in all or certain other elements within the geographic study area.   |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Geography  | TYBA  |             | CO5    | Evaluate the Role of Geographical components in changing dimensions of population and migrations.   |
| Geography  | TYBA  |             | CO6    | Create his/her own Thematic Maps related to the population distribution.  |
| Geography  | TYBA  | UAGET53     | CO1    | Remember the fundamental Map projections, map basics, survey of India toposheets, and preparation of thematic maps.   |
| Geography  | TYBA  |             | CO2    | Understand the basics of projections and cartography.   |
| Geography  | TYBA  |             | CO3    | Apply Cartographic and projection for the creation of Maps.   |
| Geography  | TYBA  |             | CO4    | The curvature of Surface and displacement of Maps   |
| Geography  | TYBA  |             | CO5    | Evaluate the correlation between projections and the size & shape of the area in Maps   |
| Geography  | TYBA  |             | CO6    | Create thematic Maps.   |
| Geography  | TYBA  | UAGET61     | CO1    | Remember the fundamentals of Environmental geography, Ecosystem, biodiversity, environmental challenges in India, sustainable development, and environmental management   |
| Geography  | TYBA  |             | CO2    | Understand the pattern of environmental geography, Ecosystem, biodiversity, environmental challenges in India, sustainable development, and environmental management.   |
| Geography  | TYBA  |             | CO3    | Apply Geographical and Socio-Cultural Understanding to solve the local environment and resources-related issues.  |
| Geography  | TYBA  |             | CO4    | Analyze the changing man-environment relationship and contemporary environmental issues.  |
| Geography  | TYBA  |             | CO5    | Evaluate the success and failure of Environmental Movements.  |
| Geography  | TYBA  |             | CO6    | Create Local Environmental Movement with the view to Protecting Environment in the Region.  |
| Geography  | TYBA  | UAGET62-A   | CO1    | Remember the fundamental types and impact of tourism, tourism infrastructure and ancillary services, planning of tourism and organization and potential tourism sectors in Maharashtra, and tourism policy.                       |
| Geography  | TYBA  |             | CO2    | Understand the pattern of tourism geography and its types and impact, the infrastructure of tourism and ancillary services, planning of tourism and organization and potential tourism sectors in Maharashtra, and tourism policy |
| Geography  | TYBA  |             | CO3    | To apply critically and independently assess existing knowledge within tourism geography.   |
| Geography  | TYBA  |             | CO4    | Analyze the field of tourism geography concerning relevant and up-to-date research agendas.   |
| Geography  | TYBA  |             | CO5    | Evaluate the relations between places, landscapes, and people, describing travel and tourism as an economic, social, and cultural activity.   |
| Geography  | TYBA  |             | CO6    | Can create awareness about Ecotourism to protect the natural environment, empower local communities and educate travelers.  |



| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Geography  | TYBA  | UAGET62-B   | CO1    | Remember the fundamentals of political geography, Approaches and concepts in political geography, frontiers, and boundaries, geostrategic and geopolitical views, and electoral geography.   |
| Geography  | TYBA  |             | CO2    | Understand the pattern of political geography, Approaches, and concepts in political geography, frontiers, and boundaries, geostrategic and geopolitical views, and electoral geography.   |
| Geography  | TYBA  |             | CO3    | Apply to understand the patterns of social activity, development, and politics in a particular geographical area or country.   |
| Geography  | TYBA  |             | CO4    | Boundaries on land and the oceans, the role of capital cities, power relationships among nation-states, administrative systems, voter behavior, conflicts over resources, and even matters involving outer space have politico-geographical dimensions |
| Geography  | TYBA  |             | CO5    | Including the boundaries of the political; the question of structure, agency, and power; the dynamics of political change; the relative significance of ideas and material factors; and the challenge posed by postmodernism                           |
| Geography  | TYBA  |             | CO6    | Create his/her own Thematic Maps related to the political boundaries.  |
| Geography  | TYBA  | UAGET63     | CO1    | Remember the fundamentals of the nature of data and central tendency, dispersion and deviation correlation, regression and hypothesis testing, sampling, etc.  |
| Geography  | TYBA  |             | CO2    | Understand the pattern of nature of data and central tendency, dispersion and deviation correlation, regression and hypothesis testing, sampling, etc.   |
| Geography  | TYBA  |             | CO3    | Apply quantitative and statistical techniques for the analysis of Geographical Data  |
| Geography  | TYBA  |             | CO4    | Analyze the correlation between any two parameters.  |
| Geography  | TYBA  |             | CO5    | Evaluate the correlation between parameters using regression.  |
| Geography  | TYBA  |             | CO6    | Create thematic maps after statistical analysis.   |
| Geography  | FYMA  | A501GET     | CO1    | Fundamental Concepts related to Geomorphology.   |
| Geography  | FYMA  |             | CO2    | Understand the interior of the earth, Earth Movements, and Geomorphic Processes  |
| Geography  | FYMA  |             | CO3    | Apply the Geomorphic theories.   |
| Geography  | FYMA  |             | CO4    | Analyse the landform development   |
| Geography  | FYMA  |             | CO5    | Evaluate the Geomorphic theories.  |
| Geography  | FYMA  |             | CO6    | Create a database of landform development in local areas.  |
| Geography  | FYMA  | A502GET     | CO1    | Fundamental Concepts related to Climatology.   |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of Climatology   |
| Geography  | FYMA  |             | CO3    | Apply the climatics understandings to analyze weather and climate in the vicinity  |
| Geography  | FYMA  |             | CO4    | Analyse the weather and Climate, Atmospheric Processes.  |
| Geography  | FYMA  |             | CO5    | Evaluate the Humidity and Precipitation.   |

| Department | Class | Course code | CO No. | CO  |
|------------|-------|-------------|--------|---|
| Geography  | FYMA  |             | CO6    | Create a model of Indian Monsoon.   |
| Geography  | FYMA  | A503GET     | CO1    | Remember the fundamentals of Population Geography   |
| Geography  | FYMA  |             | CO2    | Understand the concept of population Geography  |
| Geography  | FYMA  |             | CO3    | Apply the understanding of population & resources in day-to-day life                                    |
| Geography  | FYMA  |             | CO4    | Analyse the population and its composition  |
| Geography  | FYMA  |             | CO5    | Evaluate the changing pattern & trend in population Geography   |
| Geography  | FYMA  |             | CO6    | Create models and awareness to control the population.  |
| Geography  | FYMA  | A504GET     | CO1    | Techniques of Geomorphic and Climatic Analysis  |
| Geography  | FYMA  |             | CO2    | Techniques of Geomorphic and Climatic Analysis  |
| Geography  | FYMA  |             | CO3    | Global Mapper Software for Slope Analysis   |
| Geography  | FYMA  |             | CO4    | Altimetry and slope using contours.   |
| Geography  | FYMA  |             | CO5    | Traditional and modern methods of Slope Analysis  |
| Geography  | FYMA  |             | CO6    | Graphs, diagrams and maps using climatic and geomorphic data.   |
| Geography  | FYMA  | A505GEP     | CO1    | Fundamentals of GIS   |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of Q-GIS Software   |
| Geography  | FYMA  |             | CO3    | Apply the Q-GIS software for map creation.  |
| Geography  | FYMA  |             | CO4    | Analyze the different tools available in Q-GIS.   |
| Geography  | FYMA  |             | CO5    | Evaluate the map elements used in Q-GIS.  |
| Geography  | FYMA  |             | CO6    | Create a map using the Q-GIS software.  |
| Geography  | FYMA  | A506GET     | CO1    | Fundamentals of the research  |
| Geography  | FYMA  |             | CO2    | Understand the types of research, hypothesis, sampling & data collection method                         |
| Geography  | FYMA  |             | CO3    | Apply the sampling techniques, hypothesis testing method, and research design structure in the research |
| Geography  | FYMA  |             | CO4    | Analyze the various data analysis methods in research   |
| Geography  | FYMA  |             | CO5    | Evaluate the changing nature & type of geographical data  |
| Geography  | FYMA  |             | CO6    | Create your research project according to the research design   |
| Geography  | FYMA  | A507GET     | CO1    | Remember the fundamentals of Remote Sensing   |
| Geography  | FYMA  |             | CO2    | Understand the principles of Remote Sensing   |
| Geography  | FYMA  |             | CO3    | Apply the remote principles in day to day studies of Geography.   |
| Geography  | FYMA  |             | CO4    | Analyse Spectral Signatures, EMR, orbits in Remote Sensing  |
| Geography  | FYMA  |             | CO5    | Evaluate the Spectral signature and Image Resolutions in Remote Sensing.                                |
| Geography  | FYMA  | A507GEP     | CO1    | Remember the Sources of Remote Sensing  |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of Digital Image Processing   |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Geography  | FYMA  |             | CO3    | Apply the Digital Image Processing techniques for image Enhancement                |
| Geography  | FYMA  |             | CO4    | Analyse the Remote Sensing Data in a Software                                      |
| Geography  | FYMA  |             | CO5    | Evaluate the Sources of Remote Sensing   |
| Geography  | FYMA  |             | CO6    | Create LULC Map.   |
| Geography  | FYMA  | A508GET     | CO1    | Remember the fundamentals of Cartography   |
| Geography  | FYMA  |             | CO2    | Understand the basic concepts concerning Cartography                               |
| Geography  | FYMA  |             | CO3    | Apply the cartographic understanding to Map preparation                            |
| Geography  | FYMA  |             | CO4    | Analyse the Cartography Vs. Digital Cartography                                    |
| Geography  | FYMA  |             | CO5    | Create a Cartographic Output   |
| Geography  | FYMA  | A508GEP     | CO1    | Remember the fundamentals of Q-GIS.  |
| Geography  | FYMA  |             | CO2    | Understand how to incorporate the elements of maps using Q-GIS.                    |
| Geography  | FYMA  |             | CO3    | Apply Q-GIS in Thematic Mapping  |
| Geography  | FYMA  |             | CO4    | Analyze the different types of thematic maps prepared through Q-GIS                |
| Geography  | FYMA  |             | CO5    | Evaluate the infographics provided through thematic maps in Q-GIS                  |
| Geography  | FYMA  |             | CO6    | Create his/her thematic map using Q-GIS  |
| Geography  | FYMA  | A509GET     | CO1    | Remote Sensing Applications in Urban Studies                                       |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of urban planning                                      |
| Geography  | FYMA  |             | CO3    | Apply remote sensing for Urban Studies   |
| Geography  | FYMA  |             | CO4    | Analyze different sources of Remote Sensing Data used for urban studies            |
| Geography  | FYMA  |             | CO5    | Create Urban LULC map using Remote Sensing Data.                                   |
| Geography  | FYMA  | A509GEP     | CO1    | Remember the Sources of Remote Sensing   |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of Digital Image Processing                            |
| Geography  | FYMA  |             | CO3    | Apply the Digital Image Processing techniques for image Enhancement                |
| Geography  | FYMA  |             | CO4    | Analyse the Remote Sensing Data in a Software                                      |
| Geography  | FYMA  |             | CO5    | Evaluate the Sources of Remote Sensing   |
| Geography  | FYMA  |             | CO6    | Create LULC Map of an Urban Area.  |
| Geography  | FYMA  | A510GET     | CO1    | Remember the fundamental concept of Applied Geomorphology.                         |
| Geography  | FYMA  |             | CO2    | Understand the relevance of Geomorphic Understandings to tackle Geomorphic Hazards |
| Geography  | FYMA  |             | CO3    | Apply the Geomorphic Understandings to Tackle Geomorphic Hazards                   |
| Geography  | FYMA  |             | CO4    | Analyse the Geomorphic Hazards   |
| Geography  | FYMA  |             | CO5    | Evaluate the Sustainable methods to tackle the Geomorphic Hazards                  |
| Geography  | FYMA  |             | CO6    | Create a Hazard Management Model   |
| Geography  | FYMA  | A511GET     | CO1    | Remember the fundamentals of applied climatology                                   |

| Department | Class | Course code | CO No. | CO   |
|------------|-------|-------------|--------|--|
| Geography  | FYMA  |             | CO2    | Understand the climatic classification and climate change.                                       |
| Geography  | FYMA  |             | CO3    | Apply climatic understandings to tackle climatic hazards.  |
| Geography  | FYMA  |             | CO4    | Sources of climatic data and impact on climate.  |
| Geography  | FYMA  |             | CO5    | Evaluate the climatic classification and climate change.   |
| Geography  | FYMA  | A512GET     | CO1    | Remember the fundamentals of economic and industrial geography                                   |
| Geography  | FYMA  |             | CO2    | Understand the economic processes, activities and various theories related to economic geography |
| Geography  | FYMA  |             | CO3    | Apply economic theories in day to day life   |
| Geography  | FYMA  |             | CO4    | Analyze the national and international trade policies  |
| Geography  | FYMA  |             | CO5    | Evaluate the changing nature & scope of economic geography                                       |
| Geography  | FYMA  | A513GEP     | CO1    | Remember measures of central tendency  |
| Geography  | FYMA  |             | CO2    | Understand the fundamentals of data analysis   |
| Geography  | FYMA  |             | CO3    | Apply statistical Techniques   |
| Geography  | FYMA  |             | CO4    | Quantitative and Qualitative Data  |
| Geography  | FYMA  |             | CO5    | Evaluate various statistical Techniques  |
| Geography  | FYMA  | A514GEP     | CO1    | Remember the fundamentals of SPSS.   |
| Geography  | FYMA  |             | CO2    | Understand the variable view and the data view of SPSS.  |
| Geography  | FYMA  |             | CO3    | Apply statistical techniques SPSS for the analysis of the data.                                  |
| Geography  | FYMA  |             | CO4    | Analyze the quantitative data in SPSS.   |
| Geography  | FYMA  |             | CO5    | Evaluate the traditional techniques of data analysis with SPSS.                                  |
| Geography  | FYMA  |             | CO6    | Create a data model in SPSS.   |
| Geography  | FYMA  | A515GET     | CO1    | Remember GIS database creation and analysis.   |
| Geography  | FYMA  |             | CO2    | Understand various DBMS  |
| Geography  | FYMA  |             | CO3    | Apply spatial analysis techniques in GIS.  |
| Geography  | FYMA  |             | CO4    | Analyze various spatial analysis techniques.   |
| Geography  | FYMA  |             | CO5    | Evaluate the data quality issues in GIS.   |
| Geography  | FYMA  |             | CO6    | Create a GIS model   |
| Geography  | FYMA  | A515GEP     | CO1    | Remember Data inputs, data standards and attribute data linkages                                 |
| Geography  | FYMA  |             | CO2    | Understand data quality Issues   |
| Geography  | FYMA  |             | CO3    | Apply Spatial Analysis Techniques  |
| Geography  | FYMA  |             | CO4    | Analyze GIS outputs  |
| Geography  | FYMA  |             | CO5    | Evaluate different spatial analysis techniques   |
| Geography  | FYMA  |             | CO6    | Create a layout map.   |
| Geography  | FYMA  | A516GET     | CO1    | Remember the fundamentals of gender Geography  |

| Department                 | Class  | Course code | CO No. | CO   |
|----------------------------|--------|-------------|--------|--|
| Geography                  | FYMA   |             | CO2    | Understanding the conceptualization of gender Geography  |
| Geography                  | FYMA   |             | CO3    | Apply gender equality in day-to-day life   |
| Geography                  | FYMA   |             | CO4    | Analyse the gender global pattern  |
| Geography                  | FYMA   |             | CO5    | Evaluate the changing Global pattern and the situation   |
| Geography                  | FYMA   |             | CO6    | Create models and Strategies for Gender development  |
| Geography                  | FYMA   | A516GEP     | CO1    | Understand and apply ethnographic methods to uncover gender roles, analyze patterns, evaluate effectiveness, and create new research proposals.  |
| Geography                  | FYMA   |             | CO2    | Develop, implement, and analyze questionnaires to gather and interpret gender-related data, ensuring reliability and creating tailored instruments.  |
| Geography                  | FYMA   |             | CO3    | Conduct and analyze interviews and observations to uncover key gender issues, assess data quality, and design structured guides and plans.   |
| Geography                  | FYMA   |             | CO4    | Calculate and interpret percentages, rank correlations, correlation coefficients, and Chi-Square tests to identify significant gender patterns and relationships, evaluating their implications. |
| Geography                  | FYMA   |             | CO5    | Integrate and analyze gender variables with historical, socio-cultural, and economic factors to understand their impact on development, creating comprehensive models for gender studies.        |
| Geography                  | FYMA   | A517GET     | CO1    | Fundamentals of Military Geography   |
| Geography                  | FYMA   |             | CO2    | Understand the correlations between Military Movements and Geography   |
| Geography                  | FYMA   |             | CO3    | Analyse historical military movements considering Geographical background  |
| Geography                  | FYMA   |             | CO4    | Evaluate Indian wars considering the geography of the battle-field   |
|                            |        |             |        |  |
| <b>Faculty of Commerce</b> |        |             |        |  |
| Commerce                   | FYBCOM |             | CO2    | Applying the various techniques of Yog, Pranayam and Asanas  |
| Commerce                   | FYBCOM |             | CO3    | Analyzing the relative importance of Yog   |
| Commerce                   | FYBCOM |             | CO4    | Evaluating the practical performance   |
| Commerce                   | FYBCOM | C101BKT     | CO1    | To understand the basic concepts in banking  |
| Commerce                   | FYBCOM |             | CO2    | To apply the methods of operational banking  |
| Commerce                   | FYBCOM |             | CO3    | To analyze the Indian banking perspectives   |
| Commerce                   | FYBCOM |             | CO4    | To evaluate importance or outcome of banking system  |
| Commerce                   | FYBCOM | C101ACT     | CO1    | Remember the fundamentals of accounting concepts   |
| Commerce                   | FYBCOM |             | CO2    | Understand the accounting standards and its applications   |
| Commerce                   | FYBCOM |             | CO3    | Application of accounting methods  |
| Commerce                   | FYBCOM |             | CO4    | Analyzing the accounts and drawing inferences.   |
| Commerce                   | FYBCOM |             | CO5    | Evaluating the importance of various types of accounts with different perspectives.  |

| Department | Class        | Course code | CO No. | CO   |
|------------|--------------|-------------|--------|--|
| Commerce   | FYBCOM       | ACOE101     | CO1    | To understand the concepts of business and its scope   |
| Commerce   | FYBCOM       |             | CO2    | Applying the business related concepts in day to day life  |
| Commerce   | FYBCOM       |             | CO3    | Analyzing the scope and activities of business   |
| Commerce   | FYBCOM       |             | CO4    | Evaluating the international environmental business.   |
| Economics  | FYBCOM/FYBSc |             | CO1    | Remember the rules and theories in Economics useful in daily situations  |
| Economics  | FYBCOM/FYBSc |             | CO2    | Understand and relate the day-to-day situations using rules of economics   |
| Economics  | FYBCOM/FYBSc |             | CO1    | Remember the economic situations and problems in Indian economy before reforms                                   |
| Economics  | FYBCOM/FYBSc |             | CO2    | Understand the important decisions during reforms in Indian Economy  |
| Commerece  | SYBCom       | UCCOM       | CO1    | Explaining the idea and concept of management for proper understanding of management perspective                 |
| Commerece  | SYBCom       |             | CO2    | Applying the management functions and techniques to the current scenario   |
| Commerece  | SYBCom       |             | CO3    | Developing analytical skills to understand the overall functional areas of management                            |
| Commerece  | SYBCom       | UCBLW       | CO1    | Discussion for proper understanding various business laws  |
| Commerece  | SYBCom       |             | CO2    | Developing insight for integreted approach to understand and analyse the legal perspective of business           |
| Commerece  | SYBCom       |             | CO3    | Developing creative mindset to solve legal problems of business  |
| Commerece  | SYBCom       | UCCSP       | CO1    | To discuss and understand the concept of secretarial practices   |
| Commerece  | SYBCom       |             | CO2    | To apply and analyse legal formalities to the business situations  |
| Commerece  | SYBCom       |             | CO3    | To developed and evaluatecreative insight for legal aspects of business  |
| Commerece  | SYBCom       | UCFAA       | CO1    | Discussion and proper conceptual understanding of management accounting  |
| Commerece  | SYBCom       |             | CO2    | Applying and analysing techniques to be used for developing knowledge of management accounting and auditing      |
| Commerece  | SYBCom       |             | CO3    | Analytical developing and insight to evaluate the importance of various forms of accounting and its application. |
| Commerece  | SYBCom       | UCBNK       | CO1    | Understanding the various banking concept  |
| Commerece  | SYBCom       |             | CO2    | Analysing the banking environment and its linkages with global scenario  |
| Commerece  | SYBCom       |             | CO3    | Analysing and evaluating skills of banking business sector   |
| Commerece  | SYBCom       |             | CO4    | Developing creative mindset for employment orientation in the banking field                                      |
| Commerece  | SYBCom       | UCBEC31     | CO1    | understand the basic Macro Economic concepts and their real-life application                                     |
| Commerece  | SYBCom       |             | CO2    | know the Keynesian Economics as a separate branch of Economics   |
| Commerece  | SYBCom       |             | CO3    | analyse the Macro Economic policies  |
| Commerece  | SYBCom       |             | CO4    | understand the concept of inflation and role of money in generating inflation                                    |
| Commerece  | SYBCom       | UCBEC41     | CO1    | know the basic public finance concepts   |

| Department | Class  | Course code | CO No. | CO   |
|------------|--------|-------------|--------|--|
| Commerece  | SYBCom |             | CO2    | know the concepts of public revenue, public expenditure and public debt in detail  |
| Commerece  | SYBCom |             | CO3    | analyse the fiscal policies and its importance for economy   |
| Commerece  | SYBCom |             | CO4    | understand the Indian state of affairs on public finance ground  |
| Commerece  | TYBCom | UCCOM       | CO1    | Enabling the students to understand the concept and scope of marketing and human resource  |
| Commerece  | TYBCom |             | CO2    | Developing analytical and evaluating skills for the proper application of marketing techniques and industry related functional human resource aspoects |
| Commerece  | TYBCom |             | CO3    | Creating an insight for marketing and human resource management with a perspective of entrepreneurship   |
| Commerece  | TYBCom | UCCOM       | CO1    | Enabling the students to understand the concept, techniques and types of costing method  |
| Commerece  | TYBCom |             | CO2    | Enabling to apply costing techniques and various situations  |
| Commerece  | TYBCom |             | CO3    | Analytical and evaluating skills for decision making   |
| Commerece  | TYBCom |             | CO4    | Developing an eye for coting insight   |
| Commerece  | TYBCom | UCBNK       | CO1    | Understanding the concept and scope of banking as a part of banking sector   |
| Commerece  | TYBCom |             | CO2    | Understanding the banking business   |
| Commerece  | TYBCom |             | CO3    | Developing creative insightfor doing banking as a business   |
| Commerece  | TYBCom | UCMRS       | CO1    | Understanding the concept and scope of marketing research and various dimension of it  |
| Commerece  | TYBCom |             | CO2    | Developing analytical skills for marketing research  |
| Commerece  | TYBCom |             | CO3    | Applyung various techniques of data analysis and marketing research  |
| Commerece  | TYBCom | UCEXM       | CO1    | Understanding the scope and importance of export marketing   |
| Commerece  | TYBCom |             | CO2    | Application scenario of export marketing   |
| Commerece  | TYBCom |             | CO3    | Developing analytical and evaluating skills to understand the export business  |
| Commerece  | TYBCom | UCEMS       | CO1    | Understanding the concept and scope of entrepreneurship management of small, medium scale industries   |
| Commerece  | TYBCom |             | CO2    | Developing analytical and evaluating skills to understand the scope of self employabilit, entrepreneurship and its relateed aspects which influence it |
| Commerece  | TYBCom |             | CO3    | Developing an insight for entrepreneurship   |

### Faculty of Vocational Courses

|                               |            |          |     |   |
|-------------------------------|------------|----------|-----|---|
| B.Voc.Sustainable Agriculture | F.Y.B.Voc. | S1010SAT | CO1 | Recall the basics of principles and practices of agronomy.  |
| B.Voc.Sustainable Agriculture |            |          | CO2 | Acknowledge the procedures in nutrient management practices for better soil health and soil fertility |

| Department                    | Class     | Course code | CO No. | CO   |
|-------------------------------|-----------|-------------|--------|--|
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S102SAP     | CO1    | Recall the key stages of paddy cultivation including land preparation planting and integrated nutrient             |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Explain the principles behind water management in paddy fields and its importance in crop growth.                  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S103SAP     | CO1    | Recall plant names, characteristics, and growth requirements. Identify common pests and diseases affecting plants. |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Explain the principles of plant propagation. Understand the importance of soil quality and plant nutrition.        |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S104SAT     | CO1    | Remember the basics of Organic Farming.  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the procedures of Composting.   |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S105SAT     | CO1    | Remember Organic Nutrient management techniques in farm planning   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand organic nutrient sources, their availability and methods of application                                 |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SAOE101     | CO1    | Remember Different gardening techniques, Their advantages, limitations and requirement                             |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the plant anatomy and physiology  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SASE101     | CO1    | Remember the basics of Organic Farming   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the procedures of Composting  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SAVS101     | CO1    | Remember microbiological principles  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand Soil and Water testing methodologies  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SA106SAT    | CO1    | Recall the basics of principles and practices of agronomy.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Acknowledge the procedures in nutrient management practices for better soil health and soil fertility              |



| Department                    | Class     | Course code | CO No. | CO   |
|-------------------------------|-----------|-------------|--------|--|
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SA107SAP    | CO1    | Recall the key stages of paddy cultivation including land preparation planting and integrated nutrient management and weed management in paddy.          |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Explain the principles behind water management in paddy fields and its importance in crop growth.  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SA108SAP    | CO1    | Recall plant names, characteristics, and growth requirements.  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the principles of organic and inorganic pesticides for effective pest control.  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SA109SAT    | CO1    | Remember the basics of principles and practices of organic farming   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the procedures in nutrient management practices for better soil health and soil fertility   |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S110SAP     | CO1    | Remember the basics of principles and practices of organic farming   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the procedures in nutrient management practices for better soil health and soil fertility   |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | S111SAT     | CO1    | Remember the Basics of Agricultural waste management and its different type  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the concept of agricultural waste and its significance in sustainable agriculture.  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SAOE102     | CO1    | Remember the basics of Beekeeping technology   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand Honeybee biology and Behaviour  |
| B.Voc.Sustainable Agriculture | F.Y.B.Voc | SASE102     | CO1    | Remember the importance water management in agriculture.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand irrigation systems and technologies.  |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT31     | CO1    | To know importance and scope of fruit and plantation crop industry in India.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand the scientific cultivation methods of different fruit crops like mango, banana, citrus, grape, guava, litchi, papaya, apple, pear, peach etc. |

| Department                    | Class     | Course code | CO No. | CO  |
|-------------------------------|-----------|-------------|--------|---|
| B.Voc.Sustainable Agriculture |           |             | CO3    | To understand the scientific cultivation methods of plantation crops like coconut, arecanut, cashew, tea, coffee & rubber.  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | To know more about origin, area, climate, soil, improved varieties and cultivation practices such as time and methods of sowing, transplanting techniques, planting distance, fertilizer requirements, irrigation, weed management, harvesting and yield. |
| B.Voc.Sustainable Agriculture |           |             | CO5    | To know about different propagation techniques in fruit crops & plantation crops.   |
| B.Voc.Sustainable Agriculture |           |             | CO6    | To Understanding the concept of High density plantation in different fruit crops.   |
| B.Voc.Sustainable Agriculture |           |             | CO7    | To know about canopy management of different fruit crops  |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT32     | CO1    | Define key terms related to water resources, irrigation, soil moisture, and water use efficiency.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Explain the role of water in plant growth and development.  |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Demonstrate the methods of irrigation scheduling and assess the quality of irrigation water   |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Analyze the soil moisture characteristic curve and its relationship with soil moisture constants.   |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT33     | CO1    | Define key terms related to beneficial insects, beekeeping, silkworms, lac insects, and mushrooms.  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Discuss the methods of rearing bees, silkworms, and the techniques used in mushroom cultivation.  |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Demonstrate the commercial methods of rearing bees, including the use of equipment and seasonal management techniques.  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Analyze the foraging behavior and communication of bees and their impact on pollination.  |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT41     | CO1    | Students will understand practical knowledge on specialized production techniques of vegetables and spices.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Students understand will Importance of vegetables & spices in human nutrition improved and national economy.  |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Students will knowledge about quality requirement and production and techniques   |

| Department                    | Class     | Course code | CO No. | CO   |
|-------------------------------|-----------|-------------|--------|--|
| B.Voc.Sustainable Agriculture |           |             | CO4    | Managing skill for solving field problems.   |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT42     | CO1    | Students will know principles and utilization of integrated pest management of field crops.  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | To study IPDM tools and principles.  |
| B.Voc.Sustainable Agriculture |           |             | CO3    | To explore IPM strategies for management of disease  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | To acquire the bio-agent with high multiplication rate.  |
| B.Voc.Sustainable Agriculture |           |             | CO5    | To learn the concepts of sustainable farming and less ecological hazards.  |
| B.Voc.Sustainable Agriculture |           |             | CO6    | To gain knowledge about the plant disease and pest management through non- chemical approaches.  |
| B.Voc.Sustainable Agriculture | S.Y.B.Voc | BUSAT43     | CO1    | Know about arthropods and especially insects with their morphological features   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Understand how the morphology of an organ is related to its function   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | The students should be well versed with the basic concepts of insect ecology, succession, population, ecosystem and insect-ecosystem interactions.   |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Introduction; identification, biology and control of different insect pests like termites, cockroaches, silver-fish, cricket, beetle, moths, lice, bugs, grasshopper etc.  |
| B.Voc.Sustainable Agriculture |           |             | CO5    | The students will acquire good knowledge of basic concepts of insect behavior.   |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT51     | CO1    | Develop and evaluate animal production and management systems by integrating   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Locate, critically evaluate, and apply information from scholarly animal science literature and other sources to expand personal understanding and knowledge of animal sciences, providing a foundation for lifelong learning. |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Create and interpret graphs, tables and diagrams illustrating scientific data and concepts, and understand basic concepts relating to the design and analysis of research in the animal sciences.                              |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Communicate effectively about animal sciences to a range of audiences, both orally and in Writing, using appropriate traditional and emerging media.   |

| Department                    | Class     | Course code | CO No. | CO  |
|-------------------------------|-----------|-------------|--------|---|
| B.Voc.Sustainable Agriculture |           |             | CO5    | Engage actively and effectively in discussion of complex issues relevant to the animal science by understanding and appreciating:   |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT52     | CO1    | To understand roles of agro-meteorology in agriculture and impact of abiotic factors in crop production.  |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Agro-meteorology studies forecasting of weather and crop planning.  |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Agro-meteorology studies the behavior of the weather elements that have direct relevance to agriculture and their effect on crop production.                                  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | To understand various types of meteorological instruments.  |
| B.Voc.Sustainable Agriculture |           |             | CO5    | Weather and climate are the factors determining the success or failure of agriculture.  |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT53     | CO1    | Define key concepts and terminology related to protected culture, including greenhouses, polyhouses, net houses, substrates, fertigation, and crop regulation.                |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Explain the scope, importance, problems, and prospects of protected culture in India.   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Demonstrate the manipulation of environmental factors within a greenhouse to optimize plant growth.   |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Analyze the methods of water and nutrient management in protected cultivation and their impact on plant growth.   |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT54     | CO1    | Define key concepts and terminology related to education, extension education, rural development, extension administration, and communication.                                |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Describe the scope, objectives, and principles of extension education and its program planning process.   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Apply the principles of extension program planning to develop a basic extension program.  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Analyze the impact of new trends in agriculture extension on rural development.   |
| B.Voc.Sustainable Agriculture |           |             | CO5    | Evaluate the role and impact of different rural development programs on rural communities   |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT61     | CO1    | Identify most important elements of business success in agriculture and food- processing as well as elements that determine economic role of agriculture in national economy. |

| Department                    | Class     | Course code | CO No. | CO   |
|-------------------------------|-----------|-------------|--------|--|
| B.Voc.Sustainable Agriculture |           |             | CO2    | Propose methods of micro- and macroeconomic decision making in agriculture in different agro-ecological and agro-economic circumstances.   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Explain models of production, supply and demand of agricultural and food products on national and international markets  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Understand the concepts of consumer choice and how it affects the farm / ranch level agriculture firm.   |
| B.Voc.Sustainable Agriculture |           |             | CO5    | Understand the macroeconomics aspects of the economy as they affect the  |
| B.Voc.Sustainable Agriculture |           |             | CO6    | agricultural sector.   |
| B.Voc.Sustainable Agriculture |           |             | CO7    | Apply economics principles to understand the conduct and performance of the agricultural industry.   |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT62     | CO1    | able to recall and define key concepts related to journalism and agricultural journalism, including their meanings, definitions, and importance.   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | Students will understand the nature, scope, and characteristics of agricultural journalism, as well as the similarities and differences between agricultural journalism and other types of journalism.   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | able to apply their knowledge to analyze the characteristics, functions, and readership of newspapers and magazines as communication media in agricultural journalism.   |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Students will analyze the form, content, and structure of agricultural stories, including the sources of agricultural information and methods for gathering information such as interviews, event coverage, and abstracting from research materials. |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT63     | CO1    | able to recall the fundamental concepts of entrepreneurship, including the definition of an entrepreneur, characteristics of entrepreneurs, and government policies and programs for entrepreneurship development.                                   |
| B.Voc.Sustainable Agriculture |           |             | CO2    | understand the impact of economic reforms on agribusiness/agri-enterprises and the entrepreneurial development process, including business leadership and organizational skills.   |
| B.Voc.Sustainable Agriculture |           |             | CO3    | able to apply SWOT analysis to assess their entrepreneurial potential and develop organizational skills such as controlling, supervising, problem-solving, monitoring, and evaluation.   |
| B.Voc.Sustainable Agriculture |           |             | CO4    | analyze the importance of managerial and business leadership skills, including communication, direction, motivation, problem-solving, supply chain management, and total quality management.   |
| B.Voc.Sustainable Agriculture |           |             | CO5    | evaluate different project planning and formulation techniques, including report preparation and financing options for enterprises, and assess the opportunities for agri-entrepreneurship and rural enterprise                                      |
| B.Voc.Sustainable Agriculture | T.Y.B.Voc | BUSAT64     | CO1    | Students will be able to recall and define key concepts of agroforestry, including its definition, objectives, and the distinction between agroforestry and social forestry.   |

| Department                    | Class     | Course code | CO No. | CO  |
|-------------------------------|-----------|-------------|--------|---|
| B.Voc.Sustainable Agriculture |           |             | CO2    | understand the various agroforestry systems, subsystems, and practices, such as agri-silviculture, silvipastoral, and alley cropping, and explain the status of Indian forests and their role in farming systems. |
| B.Voc.Sustainable Agriculture |           |             | CO3    | Students will be able to apply planning and design methodologies for agroforestry projects, including the selection of tree crop species and diagnosing constraints.  |
| B.Voc.Sustainable Agriculture |           |             | CO4    | Students will analyze the economic aspects of agroforestry cultivation, including nursery and planting techniques, and evaluate the compatibility of multipurpose tree species with agricultural crops            |
| B.Voc.Sustainable Agriculture |           |             | CO5    | Students will evaluate the effectiveness and sustainability of agroforestry practices and projects, both national and international, and assess the management practices of multipurpose tree species.            |
| Banking & Finance             | F.Y.B.Voc | B101BFT     | CO 1   | Recall the basics of banking and Insurance operations   |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Explain the procedures in banking and insurance   |
| Banking & Finance             | F.Y.B.Voc | B102RBP     | CO 1   | Compare services provided by different banks in India   |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Explain the banking operations and role of banks in economy   |
| Banking & Finance             | F.Y.B.Voc | B103INP     | CO 1   | Calculate premium for life insurance  |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Compare life insurance policies of different companies in India   |
| Banking & Finance             | F.Y.B.Voc | B104ACT     | CO 1   | Describe the basics of accounting operations  |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Explain the procedures in accounting  |
| Banking & Finance             | F.Y.B.Voc | B105ACP     | CO 1   | Classify business transaction   |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Verify business transaction entries in tally prime  |
| Banking & Finance             | F.Y.B.Voc | BFSE101     | CO 1   | Explain market survey   |
| Banking & Finance             | F.Y.B.Voc |             | CO 2   | Summarize procedure of market research  |

| Department        | Class     | Course code | CO No. | CO   |
|-------------------|-----------|-------------|--------|--|
| Banking & Finance | F.Y.B.Voc | CIKS101     | CO 1   | Remembering the concept of spirituality and management   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Understanding the concept of spirituality in Indian context and its relevance in the management. |
| Banking & Finance | F.Y.B.Voc | B106BFT     | CO 1   | Recognize the basics of banking operations   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Review the procedures in banking   |
| Banking & Finance | F.Y.B.Voc | B107RBP     | CO 1   | Acquire knowledge in performing banking function   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Determine the Role of banking sector in development of Indian Economy                            |
| Banking & Finance | F.Y.B.Voc | B108INP     | CO 1   | Acquire knowledge of claim settlement process  |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Classify the customer requirement and assist in payment option                                   |
| Banking & Finance | F.Y.B.Voc | B109ACT     | CO 1   | Summarised trial balance items and post them in Final account                                    |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Practice posting and adjustment in Final account   |
| Banking & Finance | F.Y.B.Voc | B110ACP     | CO 1   | Verify setting for correct data output   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Generate various accounting reports  |
| Banking & Finance | F.Y.B.Voc | BFSE102     | CO 1   | Compare different marketing tools & techniques   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Test various marketing tools on target customer  |
| Banking & Finance | F.Y.B.Voc | BFVS101     | CO 1   | Correlate various CRM activities with the help of case studies                                   |
| Banking & Finance | F.Y.B.Voc |             | CO 2   | Exercise activities to know CRM at bank and Insurance co. office in different scenario           |

| Department        | Class     | Course code | CO No. | CO   |
|-------------------|-----------|-------------|--------|--|
| Banking & Finance | S.Y.B.Voc | BUBFT31     | CO 1   | review the concept of CRM,Negotiable instrument and bank funds                             |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | observe dcoumentation in banking   |
| Banking & Finance | S.Y.B.Voc | BUBFT32     | CO 1   | Remember the basics of Insurance Operations  |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | Understand the concept of general Insurance Operations.                                    |
| Banking & Finance | S.Y.B.Voc | BUBFT33     | CO 1   | Review financial statements  |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | Interpret data in the financial stataments   |
| Banking & Finance | S.Y.B.Voc | BUBFT41     | CO 1   | Remember the basic concepts of Investment  |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | Explore stock market operations  |
| Banking & Finance | S.Y.B.Voc | BUBFT42     | CO 1   | Remember the basics of Insurance Agency management.  |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | Understand the principals of Insurance Marketing and ombudsman procedure                   |
| Banking & Finance | S.Y.B.Voc | BUBFT43     | CO 1   | Elaborate the process of Creation, alteration and deletion of company and ledgers in tally |
| Banking & Finance | S.Y.B.Voc |             | CO 2   | Select correct voucher for accounting entry and posting of the entry in tally              |
| Banking & Finance | T.Y.B.Voc | BUBFT51     | CO 1   | Recall the basics of mutual funds  |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Discuss investing in mutual fund   |
| Banking & Finance | T.Y.B.Voc | BUBFT52     | CO 1   | Recall the basic structure of financial system in India                                    |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Review different financial products  |



| Department        | Class     | Course code | CO No. | CO  |
|-------------------|-----------|-------------|--------|---|
| Banking & Finance | T.Y.B.Voc | BUBFT53     | CO 1   | Review the basic concepts in GST                    |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Describe the levie of GST                           |
| Banking & Finance | T.Y.B.Voc | BUBFT54     | CO 1   | remember the basic concepts in Research             |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Understand the research methodology.                |
| Banking & Finance | T.Y.B.Voc | BUBFT61     | CO 1   | Recall the basics of micro finance in India         |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | describe various micro finance products             |
| Banking & Finance | T.Y.B.Voc | BUBFT62     | CO 1   | Remember the basic concepts of company accounts     |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | determine the journal entries and ledger            |
| Banking & Finance | T.Y.B.Voc | BUBFT63     | CO 1   | Understand the GST registration process             |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Calculate the GST liability per quarter             |
| Banking & Finance | T.Y.B.Voc | BUBFT64     | CO 1   | Remember the basics of loan approval process        |
| Banking & Finance | T.Y.B.Voc |             | CO 2   | Describe the documentation in loan approval process |