

## Course Outcome

### Botany

- 1) To develop the ability to practise critical thinking skills, which can be applied to lab work, field work as well as in everyday life.
- 2) To encourage potential entrepreneurial skills in the allied branch of Horticulture.
- 3) To increase the comprehensive understanding of ecological concerns.
- 4) To collate lab related and field related practicals with research.

### History

- 1) To impart students with wholesome and objective knowledge of history.
- 2) To enable them to comprehend the contemporary world.
- 3) To develop amongst students abilities to analyse, correlate and adapt to changing global scenario.
- 4) To equip students with required skills to enhance their employability.

### Economics

- 1) The core of syllabus introduces and expands basic concepts/ theories and their applications in Economics. Competencies offered is ability to understand concepts in real economy, their interconnectivities and Theories and postulated based on these concepts.
- 2) Understand structure of national and international economic institutions and organisations, their functioning and their impact on Indian and World Economics
- 3) Quantitative Analysis papers like Mathematics and Statistical Application to Economics and Econometrics demand higher cognitive and analytical ability.
- 4) The programme outcomes are ability to use quantitative framework to economic theory and ability to forecast. Some forecasting techniques are introduced which help students predict outcomes of dynamic world. with greater precision
- 5) The course prepares students to work as policy makers, research institutions, financial institutions, credit rating organisations, academics, think tanks, private sector and more

### Sociology

- 1) F.Y.B.A Sociology syllabi prepares the students to understand, analyse and examine social reality by providing an in-depth understanding of basic concepts such as socialization, gender socialization, political socialization, ethnocentrism etc. As a foundational course, it aptly grooms the students for the next level.

- 2) S.Y.B.A Sociology curriculum provides exposure to the issues and concerns prevalent in Indian society. The contributions of Indian sociologists provide the theoretical framework guiding them in this exploration. Specifically, the course Sociology of Development critiques the contemporary neo-liberal development process. This course also instils research values and skills among students through topics on methods and techniques of data collection such as Surveys, Case-study and Questionnaire. [This year students' groups carried out a small research survey on Street Vendors and Hawkers and presented their findings in class.]
- 3) T.Y.B.A Sociology offers a six-paper perspective based on the different branches of Sociology. This helps in magnifying their interest in the subject for higher studies including research. The students are thus equipped to carry out field research on social issues/phenomena and/or work towards social cause.
  - Specifically, Paper IV (Theoretical Sociology) provides a strong theoretical foundation and empowers them to look at a social issue/phenomenon from different perspectives.
  - T.Y.B.A students become capable to critically evaluate the contemporary work and labour conditions based on their learnings in Paper V (Sociology of Work & Sociology of Informal Sector)
  - For T.Y.B.A students, Paper IX project component (20 marks) is research based wherein the students carry out a brief Quantitative Research using questionnaire or structured interview (in Sem V) and Qualitative Research using case study method or unstructured interview (in Sem VI).

## Hindi

- 1) To make the students understand how to read, write and speak Hindi language.
- 2) To generate interest in Hindi language.
- 3) To generate respect for regional languages or any Indian language.
- 4) After encouragement they have taken interest in Hindi and many students are doing post-graduation in the subject
- 5) Now they are more aware about career and Hindi language.

## Philosophy

### 1) FYBA (Paper I Moral Philosophy) Semester 1 and 2

- To acquaint students with the nature, method and scope moral philosophy.
- To introduce students to theories of moral philosophy in Indian and Western philosophies.
- To encourage and develop the sensitivity to engage with moral issues that concern us in our daily lives.

### 2) SYBA (Paper II Social Philosophy, Semester 3)&(Paper II Political Philosophy, Semester 4

- To acquaint the students with the basic philosophical questions and issues that are current in social and political philosophy
- To equip students with argumentative and analytical skills involved in philosophizing through these issues.
- To encourage a spirit of rationality in philosophizing while appreciating and respecting differing philosophical ideas and perspectives.

### 3) SYBA Applied Components

#### Comparative Religions (Semester 3 and 4)

- To arrive at an informed understanding of the diversity and complexity of world religions
- To develop religious sensitivity necessary to understand the contemporary world
- Through this understanding to lay the foundations for interfaith dialogue, necessary for peace and harmony in the society.

#### Gandhism (Semester 3 and 4)

### 4) TYBA (Papers IV to IX) Semesters 5 and 6

- To introduce students to the nature of philosophical questions and thinking present in classical
- To provide a systematic and rational interpretation of philosophical issues addressed in classical and contemporary Indian and Western thought.
- To trace the development of philosophical ideas in different schools so as to evaluate their contribution to philosophical knowledge
- To introduce students to a reasoned, systematic and critical reflection about religious beliefs
- To develop in students the capacity for analytical and critical thinking about such matters.

- To reflect on real world ethical questions and the issues they raise, and to discuss those issues in an informed way.
- To demonstrate an ability to recognize, articulate, and apply ethical principles in various academic, professional, social, or personal contexts
- Paper VII Plato's Republic. (Textual Reading)
  - To achieve an understanding of the overall structure, purpose and contents of Plato's Republic.
  - To explore and interpret philosophical ideas of the Republic through reading of the text.
  - To relate the social, political and ethical ideas of the Republic to the contemporary context.
- Paper VIII Logic
  - To equip students with the knowledge of the formal techniques of evaluating deductive arguments
  - To enable students to identify flaws and fallacies in arguments
  - To enable students to apply their reasoning skills to analyse reasoning in newspaper articles, books and speeches
  - To approach any topic with the ability to reason and think critically

#### Management Studies

- 1) Bachelor of Management Studies encompasses the study of public, private and not-for-profit organisations, both small and large, their management practices and processes, and the changing external environment in which they operate.
- 2) Students will gain specific business knowledge and an understanding of the business world, and develop a range of transferable, intellectual and study skills which are appropriate not only for those aspiring to a career in management but for those interested in the relationships between people, organisations and their environment who intend to pursue career opportunities within other types of organisation.
- 3) The programme reflects on the global, dynamic climate of contemporary business and management, offering specialist courses in areas of marketing and finance such as international business and entrepreneurship, drawing on disciplines which include human skill, law, economics and mathematics. A range of compulsory and option courses in the programme examine topics in the context of businesses, allowing students to develop a broader range of knowledge and skills in management.
- 4) Students will develop professional skills that prepare them for employment and for life-long learning in advanced areas of management and related fields.

## Mathematics

After graduating from mathematics, students will be able to

- 1) think critically.
- 2) develop problem solving skills.
- 3) apply their learnings in real world and real life situations.

## Political Science

- 1) Prepare and motivate **them** to pursue further studies in national and international institutes.
- 2) Help prepare students in preparing competitive exams like Civil service, MBA entrance exam.
- 3) Training in soft skills and organizational skills through regular activities of the political science like Human rights week, Independence day week, Republic day week and peace day etc.
- 4) Hands on exposure through field visits. Better understanding of issues.
- 5) Deeper and Broader awareness of issues.

## Zoology

- 1) The dynamic course work in the field of phylogeny and taxonomy provides the students with knowledge of non - chordate and chordate life on the earth. It also helps them to develop an insight into the concepts and methodology used taxonomy.
- 2) With the knowledge of Haematology, Immunology, Enzymology, Homeostasis and Tissue-culture, they understand various concepts in the subject and also get well acquainted with laboratory techniques used in the field of pharmacology, medicine and diagnostics.
- 3) The knowledge of Histology, Toxicology, Pathology, Biostatistics, Molecular biology, Genetic engineering, Human genetics and Bioinformatics helps them to know the cutting edge technology prevalent today in the world of research.
- 4) The course work also provides them with the knowledge of nature around us. It inculcates the values of environment conservation, its sustainable utilization and management through Environment and wild life management, Zoopharmacognosy and zoogeography.
- 5) The coursework in fishery Biology provides the student with the knowledge of various food resources from marine and fresh water ecosystems. It also imparts them understanding and working principles of the sea food industry and gets them ready for entrepreneurship in the field of fishery science.

## Information Technology

- 1) Improve their computer literacy, their basic understanding of operating systems and a working knowledge of software commonly used in academic and professional environments.
- 2) Develop criteria to organize and present different type of works in academic and professional environments.
- 3) Learn to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software.
- 4) Develop the skills to present ideas effectively and efficiently.
- 5) Design and deliver an effective presentation and develop the various IT skills related electronic databases.
- 6) Use the Systems Analysis Design paradigm to analyze a problem critically.
- 7) Solve problems (programming networking database and Web design) in the Information Technology environment.
- 8) Function effectively in teams to accomplish common goals and demonstrate professional behavior.
- 9) Develop IT-oriented security issues and protocols.
- 10) Able to design and implement a web page.
- 11) Improve communication and business management skills, especially in providing technical support.

## Mass Media

- 1) Report on stories in an accurate, detailed, balanced, professional and timely manner.
- 2) Apply computer and technical skills to designated production and research functions in journalism.
- 3) Function both independently and as a member of editorial and/or production teams.
- 4) Analyze knowledge from communities, current events and public affairs, and history to interpret and express the context for designated journalism publications and/or productions.
- 5) Develop strategies for personal and professional development.
- 6) Comply with relevant Indian legislation, standards and the principles and practices of journalism.
- 7) Write and edit content for the designated media platforms.
- 8) Publish and/or broadcast content for the designated media platforms.
- 9) Apply production skills and use production equipment in the preparation and distribution of content for the designated media platforms.
- 10) The graduate has reliably demonstrated the ability to:

- Perform a market segmentation analysis, identify the organization's target market/audience and define the consumer behaviour of each segment.
- Develop an advertising plan and present and defend it persuasively.
- Contribute to evaluating the effectiveness of advertising and marketing communications initiatives.
- Collaborate in the development of advertising and marketing communications material, in compliance with current Indian legislation, industry standards and business practices.
- Participate in the development of creative solutions to address advertising and marketing communications challenges.
- Contribute to planning, implementing, monitoring and evaluating projects by applying the principles of project management.
- Complete all work in a professional, ethical and timely manner.

#### Accounting and Finance

- 1) Identify and define pertinent research questions
- 2) Critically review the relevant literature
- 3) Define an appropriate methodology
- 4) Analyse and solve valuation and investment problems
- 5) Work with large volumes of numerical data
- 6) Solve research problems / questions
- 7) Communicate effectively both orally and in writing
- 8) Work effectively with others, capitalising on their different thinking, experience and skills
- 9) Identify and evaluate social, cultural, global, ethical and environmental responsibilities and issues
- 10) Demonstrate skills in time management

#### Physics

- 1) To develop a fundamental scientific understanding of the Physical world.
- 2) To develop critical and analytical skills.
- 3) To develop ability for problem solving in the real world.
- 4) To be able to handle sophisticated instrumentation.
- 5) To be able to do interdisciplinary research.

## Microbiology

- 1) The graduate programme (Third Year Degree in Bachelor of Science, T.Y. B.Sc Microbiology) is designed to educate students in diverse microbiological disciplines, as well as to promote and develop skills and competencies that have enduring value beyond the classroom.
- 2) The three-year undergraduate programme imparts comprehensive knowledge to the students in various areas of microbiology like microbial genetics, microbial biochemistry, immunology, medical microbiology and virology. Additionally, it also orients the students to be aware of interdisciplinary sciences such as bioinformatics and bioinstrumentation.
- 3) The crux of the course is to ensure that the students are able to make prospective career in biotechnology, medical, food and agricultural industries as well as in esteemed research institutes such as *Advanced Centre for Treatment, Research and Education in Cancer (ACTREC)*, The Indian Institute of Technology (IIT) *Bombay* and National Institute For Research in Reproductive Health (NIRRH).
- 4) Upon graduation, the disciples are recruited by companies like:
  - Pharmaceutical Industry: as a Research assistant in Research and Development.
  - Food, Industrial or Environmental Agencies: as a Quality Assurance Assistant/ Regulatory Affairs Specialist/ Quality Assurance Auditors/ Auditing Consultants.
  - Pathological Laboratories: as a Clinical Laboratory Scientist
  - Contract Research Organisation: as a Drug Safety Associate/ Clinical Research Associate/ Clinical Data Management.
  - Medical Writer: as a Scientific Writer.
- 5) The course is designed that prepares students to take up internships at reputed organizations like Haffkine Institute, Padmaja Aerobiologicals, SRL Diagnostics, Parle G, Mondelez, PepsiCo and others. It also provides a solid grounding to pursue a wide range of careers in India and abroad. The course also trains the student to take up national and international competitive exams which helps them to shape their career.

## Marathi

- 1) Syllabus helps to understand students different form of Marathi literature like Poem, Novel, Short stories,, Drama, Autobiography, etc. and its critic with the help of a poem or drama etc.
- 2) Students get opportunity to study dialect of Marathi – e.g. Malwani Boli and Linguistics. (S.Y.B.A. Level Paper III)
- 3) Use of Marathi in advertisement, translation, report – writing, news writing, essay, etc.
- 4) The programme outcomes are to develop linguistic proficiency in Marathi and critical approach.

- 5) The course prepares students to work in Media – e.g. News, advertisement, in field of creative writings, teaching proficiency translator, lawyers and more.

## Chemistry

- 1) The B.Sc. Degree Programme in Chemistry covers three academic years consisting of six semesters and aims to provide the students with an in-depth understanding of and training in chemical sciences.
- 2) The syllabus has been designed to stimulate the interest of the students in chemistry and prepared in order to equip the students with a potential to contribute to the academic and industrial requirements of the society.
- 3) The new, updated syllabus is based on an interdisciplinary approach and is infused with a new vigour and more depth.
- 4) Chemistry being an experimental science, due importance is given to the development of laboratory and instrumentation skills.
- 5) The main objective is to provide to the students an in-depth understanding of the basic concepts of chemical sciences and enable them with tools needed for the practice of chemistry, which remains a discipline with much stress on experimentation.
- 6) It attempts to provide a detailed knowledge of the terms, concepts, methods, principles and experimental techniques of chemistry.

## Psychology

The syllabus of TYBA Psychology 2019-20 (Semester V) has acquainted the students with the basic concepts of the six papers provided which are as follows:

- 1) For Paper IV (Psychological Testing and Statistics), the students were introduced to the process of testing and assessment. The focus was on enhancing their understanding and knowledge of psychological tests and assessment in terms of their nature and technical features such as calculating reliability, validity, scaling and types of scales. It also focused on calculating the various descriptive statistics- their characteristics, uses, applications and method of calculation.
- 2) For Paper V (Abnormal Psychology), aspects, various causes, and approaches to understand abnormal behaviour were highlighted. The various theoretical perspectives about abnormality were also covered. The students were made familiar with DSM 5- its definition of mental disorder and the diagnostic process. The symptoms, diagnosis, causes and treatment of Anxiety, Obsessive-compulsive, Trauma and Stressor-related Disorders and the Dissociative and Somatic Symptom Disorders were also covered.

- 3) For Paper VI (Industrial and Organizational Psychology), the students were made aware of the various facets of Industrial and Organizational Psychology. The role and application of psychological factors and processes in job analysis, performance appraisal, assessment procedures in selection and placement and training; its delivery and evaluation, were covered in detail.
- 4) For Paper VII (Cognitive Psychology), the students were introduced to the fundamental concepts of Cognitive Psychology. A detailed understanding of the various cognitive processes; such as perception, attention, working memory and long term memory, and its application were also covered.
- 5) For Paper VIII (Practicals in Cognitive Processes and Psychological Testing), the students were introduced to Experimentation through exposure to and experience of experimental designs, methodology, conduction of experiments, statistical analysis, interpretation and discussion of the obtained data. The application and calculation of Inferential Statistic and Correlation was covered. The students were also acquainted with data entry and statistical procedures conducted on Excel and SPSS. The students were familiarized with a computer-based experiment (Coglab) and were sensitized to aspects of control, precision of exposure and measurement.
- 6) For Paper IX (Counseling Psychology), the students were familiarized with the meaning and application of counselling. The paper also covered the various nuances of the counselling process beginning with the personality and background of the counsellor, the skills of a counsellor, the levels of helping relationship and the professional codes of ethics.
- 7) Semester V enhanced and refined students knowledge about the application of various concepts in a multicultural contexts as well as it's application in workplace.

#### English

- 1) Introduces the students to English Literature of the 16, 17 and 18 centuries.
- 2) Shows them how background influences shaped the writer's thinking.
- 3) Introduces them to literary masters who dominated the scene
- 4) Familiarize the students with the different writing styles that each age adopted.
- 5) Introduces the learners of literature to the basics of literary criticism.
- 6) Sensitizes them to critical approaches and literary theories.
- 7) Impart them the technique of close reading of literary texts
- 8) Enables the learners to analyze, interpret, explicate and evaluate literary texts.
- 9) Familiarizes the learners with the tenets of practical criticism.