

II PUC - CURRICULUM

Part I: LANGUAGES

ENGLISH

II PU

Course book : Ennoble

Workbook : Enable

The II PUC English course book intends to be a continuation of what students have learned in I PUC in terms of language structure and function. The workbook focuses on systematic teaching of vocabulary and grammar

Learning outcome

The syllabus of the two year PU course aims to develop the various linguistic skills and encourage the learners to respond to relevant issues of life and society.

OPTIONAL LANGUAGES

1. SANSKRIT

II PU *Natya Katha Vallari*

This text book has three dramas including one modern play and four short stories apart from exercises on comprehension, translation, letter writing, prosody and rhetoric.

Learning Outcome

The language will help students in developing vocabulary, to construct sentences and basic grammar which helps them to increase their reading, writing and verbal skills.

2. KANNADA

II PU

'*Sahitya Chandana*' contains poetry, short stories, essays and drama and grammar. Basically the text drives students towards modern science and technology, culture and identity of various ethnic groups and

communication skills. This book will prepare students for the current era of globalization.

Learning outcome

The learner develops cognitive abilities like knowledge, comprehension, translation, analysis and synthesis along with the capacity to appreciate the value of the content delivered. Listening, Speaking, Reading, and Writing skills also are developed in the learners.

3. HINDI

II PU

The II PU text '*Sahitya Kiran*' consists of prose, poetry, novel, grammar and work book. The prose contains stories, one act play, biography and articles on social awareness. The poetry section has poems on social movements and nature. The novel is based on widow re-marriage.

Learning Outcome

Learning Hindi will help students in developing communication and reference skills. It also develops critical and creative thinking in students. The students are able to appreciate the aesthetics of Hindi literature.

4. FRENCH

II PU

The lessons are, Very Busy Managing Director, The Mysterious Disappearance, The Investigation Begins, The Investigation Continues, Dramatic Turn of Events, Plans, Break Downs, Discovery, Conflicts and Towards the Future. These lessons give the students an idea of the different designations in French. They also give a brief understanding of the agricultural, developed and developing areas of France. The grammar consists of different types of pronouns, degrees of comparisons and the other tenses in the verb conjugation.

The workbook consists of lot of grammar exercises to compliment the text book. There are also a lot of puzzles, riddles and jokes, to make the students get a fun-filled learning experience.

Assignments are given based on the topics related to the syllabus. The conjugation of verbs in different tenses is an important assignment.

Learning outcome

The study of the syllabus helps the students to develop the basic skills of language learning namely Listening, Speaking, Reading and Writing. They also have a glimpse into the life and society of France. French helps in developing young students into global citizens. The knowledge of French language is an added advantage and gives excellent opportunities, especially in the field of business management, information technology, hospitality, tourism and fashion industry and any Multi National Companies.

Part II: OPTIONAL SUBJECTS

SOCIAL SCIENCES

1. HISTORY

II PU

The syllabus of II PU deals with the History of Modern India, Karnataka and Contemporary world: The part of Modern India includes Advent of Europeans in India down to Indian Freedom Struggle upto 1947. Modern Karnataka: Rise of Hyder Ali down to Unification of Karnataka upto 1973. Modern world; Geographical Discoveries, Renaissance, Age of Revolutions and Nationalism, World Wars and Internal Organizations, contemporary world, India and her neighbours, India and Non-Alignment, China under Mao-Tse-Tung, India and SAARC, Liberation movement in South Africa under Nelson Mandela, Disintegration of USSR and Domination of USA. The fourth part deals with map work, which includes European settlements in India, important centres of First War of Indian Independence and places of historical importance.

Learning outcome

History is a great drama enacted by human race on the world stage. It is a balance sheet of successes and failures of humanity. Two years of their study in History at PU level will help the students to understand their land, people, custom, tradition and different social, political and economic aspects which have great hold on them. Thus, the study of history enables them to make a good career choice academically and prepares them for a professional future. Academically they can pursue various courses like B.A, LLB, etc, which ultimately helps them with opportunities to serve

themselves, their country and humanity by laying foundations for the various entrance examinations like UPSC, KPSC, NDA etc.

2. ECONOMICS

II PU

The second PU syllabus builds on the fundamental concepts learnt by the students in the first year. The topics are: Human Resource Development, Agriculture, Industrial Development, Labour Policy, Economic Infrastructure, Foreign Trade, Public Finance and Economic Planning.

Learning outcome

The syllabus enables the students to analyze the economic changes sweeping through the country and assess the business environment. The students are exposed to the most important economic theories. They can take up various undergraduate, professional and vocational courses with greater degree of comfort owing to their knowledge of the subject. The critical, creative and logical thinking will stand in good stead, when students take up their respective careers.

3. SOCIOLOGY

II PU

The syllabus at the second year focuses on Indian Society, Its Structure and Changes, Caste System and Other Backward Classes, Forms of Family, Status of Women, Village in India, Process of Social Change like Sanskritization, Westernization and Modernization, and the Current Social Issues of Child Labour and Corruption.

Learning outcome

Sociology at the PU level introduces the foundations of Sociology. It enables the learners to understand the nature and structure of their own society. It will help them understand their role in present day society and contributes to its progress. With its scientific approach, it develops positive attitude towards the changing society. It develops a sense of unity among them by understanding the cultural diversity. It also makes them to think critically and analyze situation / society they live in. After successful completion of the two year course, students do take up various professional courses like law, vocational course, undergraduate course like Bachelor of Social Work etc...

4. PSYCHOLOGY

The syllabus for the two-year course in Psychology seeks to develop the art of appreciation of the subject and to develop scientific attitude through objective observation and practical work. The course consists of both Theory and Practical.

II PU

The theory paper deals with Emotions and their appropriate expression, Motivation, Meaning and Measurement of Intelligence (including Artificial Intelligence), The Dynamics of Personality and Its Measurement, Frustration and Conflicts, And Social Behaviour. The chapter on Counselling has been introduced due to its importance and relevance to the present day lifestyles. The practical for the second year focuses on social behaviour, group dynamics, emotion, and assessment of personality, intelligence, interest and motives.

Learning outcome

Psychology at the PU level aims at providing the students with adequate knowledge for understanding and appreciating themselves and others, honing their skills in facing and adapting to the society and handling complex situations, and also instilling in them a compassionate empathy towards the human struggles at person hood.

5. POLITICAL SCIENCE

II PU

II PU syllabus lays emphasis on Major Political Thinkers, Trends and Processes. The first part of the syllabus focuses on the contributions of major political thinkers towards society at large. The second part of the syllabus throws light on contemporary political trends such as liberalization, privatization and globalization. The third part of the syllabus gives us an insight on the electoral process, functioning of administration, working of pressure groups and public opinion. The chapter on Challenges to Indian Democracy sensitizes the students critically. The chapter on India and World fosters international perspectives

Learning outcome

Study of Political Science at PU level gives the students encouragement and impetus to choose various competitive examinations, professional and

degree courses like Law, Constitution, Administration, International Relations etc. It also gives inspiration to become dynamic administrators, political advisors and rulers of the country. Finally, the study of Political Science as an intellectual discipline will make the individuals more intelligent, vigilant, co-operative, tolerant, and democratic-minded. Thus, Political Science facilitates every individual to become better citizens.

COMMERCE

1. BUSINESS STUDIES

II PU

Topics for II year comprises of Industry, Marketing, Foreign Trade, Business Finance, Money and Capital Market, Service Sector and Business, Social Responsibility of Business, Consumer Protection, Career Opportunity in Business and Computers In Business.

Learning outcome

The syllabus prepares the students become familiar with various forms of business ownership, to the procedures, practices formalities, rules and regulations in setting up various organizations and recent development in business and service sectors. The course enables the students to avail the career opportunities in this field.

2. ACCOUNTANCY

II PU

The syllabus includes Single Entry, Fundamentals of Partnership, Admission of Partner, Retirement of Partner, Death of Partner, Dissolution of Partnership, Joint Stock Companies, Final Accounts of Companies, Depreciation Accounts, Non-Trading Concerns and Computerized Accounting.

Learning outcome

The syllabus enables the Students to develop analytical skills and rational thinking through this subject. They draw statements and analyse the importance of cash and credit transactions. At the end of the course they also know how books of accounts are maintained by various concerns both trading and non-trading.

3. BASIC MATHEMATICS

II PU

The second PU syllabus builds on the fundamental concepts learnt by the students in the first year. The syllabus consists of Algebra, Analytical Geometry, Arithmetic, Mathematical Finance and Calculus. The curriculum is focused to give a systematic approach to grasp the subject for effective learning. It further helps in laying a good foundation for higher studies.

Learning outcome

The PU course helps the students in inculcating knowledge of terms, symbols, formulas, definitions, concepts and principles of Mathematics. It develops reasoning, logical thinking, and mental aptitude amongst the students. This forms the foundation for the selection process of various professional courses. Assignments and projects provide opportunities for independent thinking in solving mathematical problems applied in Commerce and Economics.

4. STATISTICS

II PU

The II PU syllabus aims at developing reasoning skills through Vital Statistics, Index Numbers, Time Series Analysis, Theoretical Distribution, Statistical Inference, Operation Research and Statistical Quality Control.

Learning outcome

The students learn to admire and appreciate the need and importance of statistics. They are able to prepare questionnaire to collect data and present them for analysis. The students are able to analyse, judge and draw conclusion from the data given to them. They develop ability for reasoning and discrimination. They also learn the application of statistics in industry.

5. ECONOMICS

II PU

The second PU syllabus builds on the fundamental concepts learnt by the students in the first year. The topics are: Human Resource Development, Agriculture, Industrial Development, Labour Policy, Economic Infrastructure, Foreign Trade, Public Finance and Economic Planning.

Learning outcome

The syllabus enables the students to analyze the economic changes sweeping through the country and assess the business environment. The students are exposed to the most important economic theories. They can take up various undergraduate, professional and vocational courses with greater degree of comfort owing to their knowledge of the subject. The critical, creative and logical thinking will stand in good stead, when students take up their respective careers.

SCIENCE

1. PHYSICS

II PU

The syllabus for II PU inculcates in learners the ability to appreciate the various concepts in Physics in relation to real life situations. Thus, it makes learning Physics relevant, meaningful and interesting. It covers topics like Refraction at a plane surface, through prism and at spherical surface, Introduction to Theories of Light, Interference, Diffraction, Polarization, Speed of Light, Electric Charged, Electric Field, Capacitors, Current, Kirchoff's laws, Magnetic and Mechanical effects of Electric Current, EMI, Introduction to Atomic Physics, Photoelectric effect, Dual nature, Bohr's Atom Model, Scattering, LASERs, Nuclear Physics, Radioactivity, Elementary Particles, Solid State Electronics, Digital Electronics and Soft Condensed Matter.

Learning outcome

The purpose of two year PU course in Physics is to provide a strong base for the students, which will enable them to pursue further career in basic sciences or professional courses. The two year Physics curriculum helps the learner to strengthen the concept developed at the school level. It gives primary importance to acquiring knowledge, understanding and application abilities about different aspects of Physics. Physics is basic science involved with virtually any higher levels of science. By taking up Physics, it enables the students to opt for either professional courses or basic sciences. Physics is the fundamental requirement for various engineering courses and also for various prestigious Research & Development establishments like ISRO, DRDO, etc. All the major developments in the field of scientific research are involved with Physics.

2. CHEMISTRY

II PU

The II PU syllabus includes topics such as; Metallurgy, Industrially important compounds, Noble gases, d – block elements, Chemical Bonding, Co-ordination Compounds, Thermodynamics, Dilute Solutions, Solids, Chemical Kinetics, Electrochemistry, Organic Chemistry and Bio Chemistry.

Learning Outcome

The syllabus enables the students to appreciate the integrities of science at atomic and molecular levels. The discipline opens new vistas with field of Biotechnology and Nanotechnology, thereby making the students to learn science through an integrated approach.

3. MATHEMATICS

II PU

The second PU syllabus builds on the fundamental concepts learnt by the students in the first year. The syllabus consists of Algebra, Analytical Geometry, Trigonometry and Calculus. The curriculum will facilitate the students in understanding subject and it prepares them for competitive level of examinations. It would help the students to acquire a broad and comprehensive outlook.

Learning outcome

The two year PU course enables the students to acquire knowledge of terms, symbols, formulas, definitions, concepts and principles of Mathematics. It helps them in developing the ability of reasoning and critical thinking to apply it in day to day life. The syllabus developed on the basis of National Curriculum Framework (NCF) signifies an attempt to implement this basic idea. It attempts to discourage rote learning and the maintenance of sharp boundaries between different subject areas. The syllabus attempts to enhance this endeavour by giving higher priority and space to opportunities for discussions in small groups and activities requiring hands – on experience. It exposes students to various methods of solving problems and to select the most appropriate, effective and efficient method. Assignments and projects inculcate independent thinking in solving mathematical problems.

4. BIOLOGY

II PU

The topics in Botany help the students understand the organization of tissues, various physiological processes in plants, application of Biology for welfare of mankind and to incorporate scientific temper in the students for research in various fields of Biology.

The Zoology curriculum provides an opportunity to understand about body functions of man and to appreciate Homeostasis as the central dogma in Physiology. It also gives an insight into the variety of life around and awareness of one's role in conservation of natural resources. Students also gain knowledge about basic principles of heredity and certain genetic disorders. The unit on continuity of life highlights basic aspects of sexual reproduction, developmental aspects and need and methods of family planning.

Learning Outcome

Learning Biology at the PU level not only lays foundation to pursue medical sciences but also throws open many career opportunities in the allied fields of life sciences. The first year syllabus reinforces the student in the basics such as that the cell as a fundamental unit of life. Then the syllabus brings in the biological diversity on the earth and the need for biosystematics. The introduction of human physiology in the syllabus is in tune with the Medical council of India's vision.

5. ELECTRONICS

II PU

The syllabus comprises of Bipolar Junction Transistors, Transistor Amplifiers, Feed Back in Amplifiers, Operational Amplifiers, Oscillators, Communication, Modulation and Demodulation, Digital Electronics and Modern Communication System.

Learning outcome

The two year PU Electronics is very beneficial especially to students pursuing engineering. They will have the knowledge of the subject fundamentals. We motivate our students to take up projects to develop their confidence level, presentation skills and to enhance their knowledge base. They get to know the art of trouble shooting by having hands on experience on the circuits.