

I PUC - CURRICULUM

Part I: LANGUAGES

ENGLISH

I PU

Course book : World View

Workbook : Word View

The revised version of the syllabus is a well-developed proportional syllabus including both language structure and function, emphasizing all the four skills of language with accuracy. The workbook includes exercises on reading, reference, writing and speaking skills which are in tune with contemporary language use.

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

I PU *Gadya Padya Vallari*

This text book has four poems, seven prose texts and four non-detailed lessons besides dealing with basic grammatical concepts. The lessons are taken from ancient as well as modern literature which includes great works like Ramayana, Mahabharata, and the works of Kalidasa, *Subhashitas*, *Hitopadesha*, *Upanishads* and *Ayurveda*.

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

I PU

'Saahitya Nandana' is collection of old, medieval and modern poetry, short stories and drama along with Grammar. The basic aim of the text is to develop Kannada literary sense and language skills among students.

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

I PU

The I PU text, *'Sahitya Darpan'* consists of prose, poetry, short stories, grammar and work book.

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

I PU

The students opting for French are the beginners. Therefore, the basic topics are included in the syllabus, such as Meetings, Sympathies, Tastes and Preferences, Agreement and Disagreement, Surprises, The Country Side House, Meal at Broussac, Noise and Disappearance, Disguise and Mardi Gras. These topics help the students to have a minimal idea about France, its culture, tradition, society and festivals.

Each lesson is supported with grammar like definite, indefinite, partitif and dative articles, number-cardinal and ordinal, timings, number and gender of nouns and adjectives, the negative form, demonstrate if and possess if adjectives, prepositions and adverbs of quality and place emphatic pronouns, different group of verbs and their conjugation in present and imperative tense.

The workbook consists of more exercises in grammar, puzzles, riddles and jokes to make the learning a fun filled one.

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

I PU

The syllabus of History in I PU deals with the history of India till 1707 with special reference to Karnataka:- The first part of history includes, Ancient Indian History; Introduction to history, Indus and Vedic Civilizations, Rise of Jainism and Buddhism, Mauryas and Guptas. The second part of the Medieval Indian history includes; Delhi Sultanate, Mughal Empire, Akbar, Rise of Marathas, Shivaji, Bhakti Movement-Kabir, Guru Nanak etc. Ancient and Medieval Karnataka history: Sathavahanas to Modern period up to Nayakas of Chitradurga. The third and last part of syllabus deals with Map work, where the students are taught to draw maps, marking of the extent, important locations, historical importance of the places etc.

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

I PU

The first year syllabus aims at imparting fundamentals of Economics. The topics include: Introduction to Economics, Consumption, Production, Cost, Revenue and Market Structures, Elements of Welfare Economics, National Income, Theory of Money, International Trade and Finance.

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

I PU

First year syllabus introduces the subject of Sociology, Nature of Scientific Approach and the Value of Sociology. Students learn basic concepts and social processes relevant to the field of Sociology. The last chapters focus on Social Groups, Culture, Socialization, Social Control, Marriage, Family and Social Change.

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.

I PU

The theory paper introduces the students to the scope of Psychology, Methods of Studying Psychology, Biological Bases of Behaviour, Sensation, Attention and Perception, Learning and Memory, Heredity and Environment (including the concept of Cloning). The chapter on Health Psychology helps the students to understand about stress and to reduce its ill effects, keeping in mind its relevance in the present day scenario. The practical's for the first year deals with various experiments on observation, attention, perception, learning and memory.

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

I PU

I PU syllabus focuses on the fundamentals of Political Science and Elements of Government. The first part of the syllabus emphasises on the developments of Political Science by systematically focusing on its origin, scope and importance. It also throws light upon state, citizenship and basic political concepts such as power, sovereignty, law, liberty, equality, justice and rights. The second part of the syllabus focuses on the functioning of the Indian constitution followed by the working of the different forms of

government. It also enriches the understanding on the organization, powers and functions of legislature, executive, judiciary and local self governments.

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

I PU

The syllabus covers topics like Nature of Business, Forms of Business Ownership, Proprietary Concerns, Partnership Firms, Joint Stock Company, Formation and Liquidation of A Company, Co-Operative Society, Government Undertaking, Public Utilities, Internal Trade, Multi-National Companies, Business Management, Business Communication, Contemporary Issues in Business, Computer in Business are the various chapters dealt with throughout the whole year.

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

I PU

The syllabus deals with the basics of Accountancy and Book Keeping. The topics covered are Journal, Subsidiary Books, Ledger, Cash Book, Bank

Reconciliation Statements, Bills of Exchange, Rectification of Errors, Journal Proper, Trial Balance and Final Accounts.

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

I PU

The syllabus emphasises on providing a strong foundation on the basic concepts in the subject. The syllabus consists of Algebra, Mathematical Finance, Trigonometry and Co-ordinate Geometry to cater to the needs of the first year pre- university students of commerce. The curriculum will enhance the students to understand various concepts in the subject practically.

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

I PU

The syllabus deals with the basics tools in Statistics. The topics covered are Statistical Investigation and Organization of Data, Presentation of Data, Analysis of Univariate Data, Analysis of Bivariate Data, Elements of Probability Theory, Random Variable and Mathematical Expectations, and Computer for Data Processing.

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

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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

I PU

The syllabus for I PUC Physics has been developed with a view that this stage of school education is crucial and challenging as it is a transition from general science to discipline-based curriculum. The syllabus includes topics relating to the physical world & measurements, Kinematics, Laws of Motion, Work, Energy & Power, Motion of System of Particles & Rigid Body, Gravitation, Properties of Bulk Matter, Thermodynamics, Behavior of Perfect Gas & Kinetic Theory of gases, Oscillations & Waves, Practical oriented questions.

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

I PU

The new curriculum for I PUC is the National Core Curriculum which is accepted by the CBSE, ICSE and many State Level Boards in India. It aims at giving a uniform curriculum at the National level. Compared to the existing I PUC Syllabus, the depth of the new syllabus is vast and application oriented. The Science education in the state is expected to have a quantum leap in the coming years. The syllabus covers topics like Basic concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure, States of Matter, Thermodynamics, Equilibrium, Redox Reactions, Hydrogen, s-Block Elements, p-Block Elements, Principles and Techniques in Organic Chemistry, Hydrocarbons and Environmental 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

I PU

The first year syllabus aims at imparting fundamentals of sets and functions, Algebra, Analytical Geometry, Calculus, Mathematical Reasoning, Statistics and Probability. The new curriculum emphasises on application of various concepts which have been interwoven keeping in mind lateral development of knowledge. In addition, to this it provides solutions to confusing theorems, complicated formulae, critical problems etc., through this syllabus students learn to enjoy mathematics.

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

I PU

The Medical Council of India (MCI) recommends this new syllabus for National Eligibility-cum-Entrance Test for admission to MBBS courses across the country (NEETUG) after review of various State syllabus as well as those prepared by CBSE, NCERT and COBSE. This is to establish uniformity across the country keeping in view the relevance of different areas in medical education. The syllabus includes diversity of living world, structural organization in plants and animals, cell structure and function, plant physiology and human physiology.

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

I PU

During the first year, the students are introduced to Electronics, Principles of Electricity, Passive Electronic Components, Application of A.C & D.C to Passive Components, Semiconductor and Diode, Measuring Instruments and Introduction to Digital Electronics.

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.