

# MODERN EDUCATION SOCIETYS' NOWROSJEE WADIA COLLEGE, PUNE

## Course Outcomes

Subject	Program & Course	Course Outcomes
English	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Students are familiarized with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English</li> <li>• Exposed to native cultural experiences and situations in order to develop humane values and social awareness</li> <li>• Develop overall linguistic competence and communicative skills of the students</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Develop competence among the students for self-learning.</li> <li>• Develops interest in reading literary pieces</li> <li>• Exposed to the basics of short story, one of the literary forms</li> <li>• Students get familiarized with different types of short stories in English</li> <li>• Understand the literary merit, beauty and creative use of language</li> <li>• Awareness of the technical aspects and their practical usage</li> <li>• Detailed study and understanding of literature and language</li> <li>• Develop integrated view about language and literature in them</li> <li>• Acquainted and familiarized with the terminology in Drama Criticism (i.e. the terms used in Critical Analysis and Appreciation of Drama)</li> <li>• Encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world</li> <li>• Develop interest to appreciate and analyze drama independently</li> <li>• Enhanced awareness in the aesthetics of Drama and to empower them to evaluate drama independently</li> <li>• Acquainted and familiarized with the terminology in poetry criticism (i.e. the</li> </ul>

		<p>terms used in critical analysis and appreciation of poems)</p> <ul style="list-style-type: none"> <li>• Enhanced awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate the poetry independently</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• Develop communicative skills and develop proficiency in English language.</li> <li>• Ability to read the various types of texts on their own and discuss them among peers.</li> <li>• Acquainted with the different modes of Communication in the context of modern life.</li> <li>• Effective and efficient users of English language.</li> <li>• To impress upon their minds the importance and value of Communication in personality development and career prospects.</li> <li>• Familiarized with the basics of English language</li> <li>• Be aware of the phenomena of World Englishes</li> <li>• Awareness of the significance of Context in language use</li> <li>• Acquainted with the commonly used literary terms and concepts and to enable them to independently apply this knowledge while responding to literature.</li> <li>• Awareness of the language used in Literature.</li> <li>• Trained to read literature closely and to help develop their critical insight.</li> </ul>
Economics	F.Y.B.A.	<p>To equip the students with a clear understanding of</p> <ul style="list-style-type: none"> <li>• The fundamentals of banking theory</li> <li>• Banking business and practices</li> <li>• To introduce recent developments in Banking</li> <li>• Familiarized with the recent developments in the Indian Economy</li> <li>• Have an overview of the background of the Indian Economy with focus on contemporary issues like economic environment.</li> <li>• Understand and comprehend the current business scenario, agricultural scenario and other sectorial growth in the Indian context.</li> <li>• Awareness of the developments such as MSMEs, Digital Economy, E-Banking, BPO &amp; KPO, etc. Programme Outcome:</li> </ul>

		<ul style="list-style-type: none"> <li>• Ability to develop an understanding of the economic environment and the factors affecting economic environment.</li> <li>• Ability to develop awareness on the various new developments in the different sectors of an economy – agriculture, industry, services, banking, etc.</li> <li>• Ability to compare and contrast Indian Economy with other world economies.</li> <li>• Ability to discuss and debate on the various issues and challenges facing the Indian Economic Environment.</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Awareness regarding Modern Banking System and clear understanding of the operations of banking their interaction with the rest of the economy.</li> <li>• Understanding the behavior of an economic agent, namely, a consumer, a producer, a factor owner and the price fluctuation in a market.</li> <li>• Acquaint with the nature and scope of economics, the theory of consumer behavior, analysis of production function and equilibrium of a producer, the price formation in different markets structures and the equilibrium of a firm and industry.</li> <li>• Understanding of the impact of the growing influence and involvement of the State in economic fields.</li> <li>• Acquaint with the basic concept of Macro Economics and application.</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• The understanding of the various approaches to economic development besides hard core economic prescriptions to development, concern hitherto relegated to background,</li> <li>• A thorough understanding and deep knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level.</li> <li>• Knowledge regarding the impact of free trade and tariffs on the different sectors of the economy as well as at the macro level.</li> <li>• Equipped with training about the rationale of recent changes in the export import policies of India.</li> <li>• Trained to use techniques of statistical analysis, which are commonly applied to understand and analyze economic problems.</li> <li>• Understanding economic concepts with the</li> </ul>

		help of statistical methods.
Geography	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Understanding of the latest concepts in Geomorphology.</li> <li>• Acquainted with the utility and application of Geomorphology in different regions and environment.</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Idea of the basic principles and concepts in Climatology and Oceanography and its applications in different areas and environment.</li> <li>• Well-versed with the concept of disaster &amp; its relation with Geography and the utility &amp; application of hazards in different areas &amp; its management.</li> <li>• Acquaint with the principles of surveying, its importance and utility in the geographical study.</li> <li>• Aware of the utility and application of Tourism.</li> <li>• Can use various Projections and Cartographic Techniques.</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• Understanding of the physical &amp; cultural characteristics of India</li> <li>• Sensitized with development issues and policies and programmes designed for regional development</li> <li>• Acquaint with the nature of man environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living.</li> <li>• Able to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community.</li> <li>• Acquaint the students with the applications of Agriculture Geography in different areas and development.</li> <li>• Familiar with the global and regional distribution of population &amp; equips them for comprehending the Indian situation.</li> </ul>
History	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Introduced to innovative study techniques in the study of History of Maratha to make it value based, conceptual and thought provocative.</li> <li>• Exposure to International elements in the study of Marathas to facilitate</li> </ul>

		<p>comparative analysis of this history</p> <ul style="list-style-type: none"> <li>• Understanding of the Socio –economic, cultural and political background of 17th century Maharashtra.</li> <li>• Overview of the culture of Maharashtra from ancient times onwards.</li> <li>• Acknowledges the importance of regional cultural identity and how it forms a part of the main flow of the Indian cultural tradition.</li> <li>• Acquaint with concepts, theories and methodology of social philosophy and new thoughts, trends and ideologies.</li> </ul>
	<p>S.Y.B.A.</p>	<ul style="list-style-type: none"> <li>• Clear understanding of the processes of rise of modern India.</li> <li>• Acquaint with the basic concepts/ concerns/ frame work of Indian History.</li> <li>• Understanding of the social, economic, religious and institutional bases of Ancient India.</li> <li>• Overview of the ideas, institutions, forces and movements that contributes to the modern Maharashtra.</li> <li>• Acquaint with various interpretative perspectives and understanding of regional history within a broad national framework.</li> <li>• Understanding of the social, economic, religious bases of medieval India.</li> <li>• Enriched knowledge of the administrative skills and profundity of diplomacy.</li> <li>• Able to relate key historical developments during medieval period</li> <li>• Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)</li> <li>• Develop an overall understanding of the Modern World.</li> <li>• Get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World.</li> <li>• Enhanced perception of the history of the Modern World.</li> <li>• Understanding the significance of the intellectual, economic, political developments in the Modern World.</li> <li>• Develop an overall understanding of the Asian countries.</li> <li>• Well acquainted with the Communism in</li> </ul>

		<p>China &amp; Imperialism of Japan.</p> <ul style="list-style-type: none"> <li>• Enhanced perception of the developmental Policies of the Asian Countries.</li> <li>• Understand the significance of China and Japan in the Modern World.</li> <li>• Well acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences.</li> <li>• Enhanced overall perception of the history of the Modern World.</li> <li>• Understand the significance of the strategic political developments in the Modern World.</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• Acquaint with the Socio-economic &amp; Political developments in other countries.</li> <li>• Clear understanding of the contemporary world in the light of its background History.</li> <li>• Oriented with political history of Modern World.</li> <li>• Acquaint about the main developments in the Contemporary World (To understand to important development in 20th century World.)</li> <li>• Knowledge about world concepts.</li> <li>• Understand the economic transition in World during the 20th Century.</li> <li>• Become aware of the principles, forces, processes and problems of the recent times.</li> <li>• Acquaint with growth of various political movements that shaped the modern world.</li> <li>• Understanding the rise and growth of nationalism as a movement in different parts of the world.</li> </ul>
Marathi	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Introduction to Marathi literature, language and culture</li> <li>• Develop interest in Marathi literature</li> <li>• Develop the literary taste</li> <li>• Develop ability to appreciate literature.</li> <li>• Connect literature to real life experience.</li> <li>• Understand various branches and movements of Marathi literature</li> <li>• Develop linguistic skills to meet the requirements in the age of globalization</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Get introduced to standard writing practices.</li> <li>• Develop translation skills</li> <li>• Understand aspects of Biography and</li> </ul>

		<p>Autobiography</p> <ul style="list-style-type: none"> <li>• Develop ability to appreciate and evaluate selected Biographies and Autobiographies in modern Marathi literature</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• Get acquainted to various movements in Modern Marathi literature</li> <li>• Generate interest in modern Marathi literature</li> <li>• Develop skill in preparing materials for media including Newspaper, Radio and TV.</li> </ul>
Mathematics	F.Y.B.A.	<ul style="list-style-type: none"> <li>• To equip the students with a basic knowledge of Mathematical &amp; Statistical concepts.</li> <li>• To develop strong logical and analytical thinking which can be applied to all walks of life and the ability to carry out inter-disciplinary projects.</li> <li>• To inculcate the ability to make wise decisions regarding modern day concerns pertaining to investments, interests, purchasing, comparison of various schemes, time value of money, loans , installment plans etc.</li> <li>• To enable students to interpret data intelligently through numerical means.</li> <li>• To develop in the students the capacity to detect errors in any system and formulate ways of eradicating or minimizing them.</li> <li>• To familiarize them with well-known mathematical problem solving methods such as substitution, elimination, simplification, approximation etc.</li> </ul>
Politics	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Detail understanding of the political processes and the actual functioning of the political system.</li> <li>• Analysis of the local influences that derive from social stratification of castes and jatis, from language, religion, ethic and economic determinants and critically assesses its impact on the political processes.</li> <li>• Critically analyze the major contradictions of the Indian Political Process along with an assessment of its relative success and failure in a comparative perspective with other developing countries and in particular</li> </ul>

		<p>those belonging to the South Asian region.</p> <ul style="list-style-type: none"> <li>• Acquainted with the important features of the Constitution of India and with the basic framework of Indian government.</li> <li>• Familiarized with the working of the Constitution of India.</li> <li>• Well acquainted with the important features of the Constitution of the United States of America and the basic framework of government of the USA</li> </ul>
	<p>S.Y.B.A.</p>	<ul style="list-style-type: none"> <li>• Familiar with concepts, ideas and theories in political theory.</li> <li>• Able to explain the evolution and usage of concepts, ideas and theories with reference to individual thinkers both historically and analytically.</li> <li>• Critically explain the different ideological standpoints with regard to various concepts and theories with the purpose of highlighting the differences in their perspectives and in order to understand their continuity and change.</li> <li>• Acquaint with the understanding to emphasize the continuing relevance of these concepts today and explain how an idea and theory of yesteryears gains prominence in contemporary political theory.</li> <li>• Explain and critically analyze the constitutional and legal provisions, the ideological basis, the institutional arrangement and their social and economic background.</li> <li>• Understanding the historical backgrounds to individual constitutions are to be emphasized to gain an understanding of its evolution.</li> <li>• Comparative perspective enables the understanding of the differences and similarities between the various constitutional arrangements.</li> <li>• Understanding of the dynamics of actual politics and policy making.</li> <li>• Understand the role of different political ideologies and their impact in politics</li> <li>• Draw a close link between an idea and its actual realization in public policy</li> <li>• Idea of the Legacy of all the major ideologies</li> <li>• Awareness of the major traditions of thought that have shaped political</li> </ul>

		<p>discourse in different parts of the world.</p> <ul style="list-style-type: none"> <li>• Knowledge of the great diversity of social contexts and philosophical visions.</li> <li>• Aware of the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.</li> <li>• Understand the complex relationship between the communication, media and power politics.</li> <li>• Critical appraisal of practices of political image management, campaigns, propaganda and censorship.</li> <li>• Understand the Indian context of political Journalism</li> </ul>
	<p>T.Y.B.A.</p>	<ul style="list-style-type: none"> <li>• An understanding of the evolution and development of different ideologies and the different streams and subtle nuances within each ideology, the changes and continuities in its doctrine and its relevance to contemporary times a.</li> <li>• Establish the close link between an idea and its actual realization in public policy.</li> <li>• Clear understanding of the legacy of all the major ideologies is to be critically assessed</li> <li>• Introduced to the structure of Local Self Government of Maharashtra.</li> <li>• Aware of the various Local Self Institutions, their functions, compositions and importance.</li> <li>• Able to identify the role of Local Government and Local Leadership in development.</li> <li>• Effectively translate the governing philosophy into programs, policies and activities and making it a part of community living.</li> <li>• Critical analysis of the recent developments, particularly the emergence of New Public Administrations incorporated within the larger paradigm of democratic legitimacy.</li> <li>• Deal with concepts and dimensions of international relations and make an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms.</li> <li>• Acquaint with concept of governance and its increasing significance in the era of globalization.</li> <li>• Acquaint with the main administrative</li> </ul>

		<p>ideas of major administrative thinkers.</p> <ul style="list-style-type: none"> <li>• Aware of the contributions made by thinkers to the administrative thinking</li> <li>• Acquaint with the concept of Development Administration.</li> </ul>
Psychology	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Have a solid foundation for the basic principles of psychology.</li> <li>• Familiar with the historical trends in psychology, major concepts, theoretical perspectives, and empirical findings.</li> <li>• A clear overview of the applications of psychology.</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Acquaint with the recent classification of abnormality. 2. Acquire the knowledge about the causes, symptoms and treatments of various types of psychological disorders.</li> <li>• Acquaint with various areas of adjustment</li> <li>• Familiar with modern ways of effective adjustment.</li> <li>• Have an empirical approach in adjustment psychology.</li> <li>• Acquaint with health psychology.</li> <li>• Acquaint with the basic concepts of human development processes.</li> <li>• Understanding of the influences of various factors on development.</li> <li>• Aware of the importance of well-being at different stages of life.</li> <li>• Acquaint with Happiness and Positive Traits of Personality.</li> <li>• Acquaint with basic concepts, theories and applications of Social psychology</li> <li>• Familiar with group behaviour and aware of the importance of Close Relationships and Pro- social behaviour</li> <li>• Acquire the knowledge about the symptoms, diagnostic criteria, and causes of various psychological disorders</li> <li>• Examine multiple probable causes and correlates of behavior.</li> <li>• Understand critiques, limitations, and implications of diagnosis and classification of psychological diseases.</li> <li>• Awareness about mental health problems in society.</li> <li>• Understand and observe, interpret individual differences in behavior in the light of sound theoretical systems of personality.</li> <li>• Understand comprehensive overview of</li> </ul>

	T.Y.B.A.	<p>the major theories personality.</p> <ul style="list-style-type: none"> <li>• Aware of the significance of training, performance appraisal, leadership models</li> <li>• Knowledge regarding the importance of Engineering Psychology</li> <li>• Understanding the relationship between theoretical and applied aspects of Psychology</li> <li>• Acquaint with various applications of Psychology</li> <li>• Familiar with problems and solutions in various applied fields</li> <li>• Apprise with the role of Psychologists in various applied fields</li> <li>• Acquaint with the basic concepts of experimental psychology and research methodology,</li> <li>• Developed the spirit of scientific inquiry</li> <li>• Able to generate ideas for research, as well as develop hypotheses and operational definitions for variables.</li> <li>• Clear understanding of the basic steps in scientific research,</li> <li>• Equipped with the basic information and knowledge about test-administration and scoring, and interpretation of the obtained results, 6. Enable to undertake an independent small-scale research project.</li> <li>• Familiar with the use of elementary statistical techniques</li> <li>• Practical experience in administering and scoring psychological tests and interpreting the scores,</li> <li>• Acquaint with the basic procedure and design of psychology experiments,</li> <li>• Encouraged to learn practical application through study tour and visit.</li> </ul>
French	F.Y.B.A.	<ul style="list-style-type: none"> <li>• Ability to apply the grammatical concepts learnt to real situations through authentic documents, contextual exercises, articles and literary extracts, etc. (Written Comprehension)</li> <li>• Acquaint with the geography of the civilization.</li> <li>• Aware about Major monuments &amp; events in France</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• Understanding the essential elements when the language used is clear and standard, and when the topics are related to the classroom, leisure, work etc. (Oral</li> </ul>

		<p>Comprehension)</p> <ul style="list-style-type: none"> <li>Write a simple narrative, description, e-mail, invitation, letter of application, C.V., etc. (Written Expression) These objectives are based on the common guidelines prepared by the Council of Europe for learning Modern European Languages {Cadre européen commun de référence (CECR) }</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>An insight into the French culture, civilization and literature</li> <li>Communicate in simple situations encountered while travelling or visiting in a French-speaking country; be able to speak fluently and coherently on topics from daily life; be able to narrate an incident or an experience. ( Oral Expression)</li> </ul>
Logic and Methodology of Science	F.Y.B.A.	<ul style="list-style-type: none"> <li>Explain the basic principles of correct reasoning</li> <li>Aware of the ample scope to exercise their reasoning based on the above principles.</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>Acquaint with the principles and techniques of Axiomatic System, Predicate Calculus, Relational Logic and Identity</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>Acquaint the students with some important issues regarding methodology of Science.</li> <li>Introduced to major methodological approaches in Natural Sciences and Social Sciences.</li> </ul>
Philosophy	F.Y.B.A.	<ul style="list-style-type: none"> <li>Acquired pleasure in thinking, contemplating, philosophizing.</li> <li>Critical and systematic thinking mind as well as common stakeholders have in general.</li> </ul>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>Acquaint with the major issues and perspectives concerning Environmental ethics, Medical Ethics, Business ethics, Media ethics and Social ethics</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>Introduced to the thinkers and issues from social and political philosophy.</li> <li>Acquaint with the issues and problems in the realm of Art and Aesthetics.</li> <li>Awareness regarding the problems and issues discussed in Philosophy of Religion.</li> </ul>
Defense and Strategic Studies	F.Y.B.A.	<ul style="list-style-type: none"> <li>The basic aim of the paper is to introduce students to Defense Organisation of India. This paper will cover military organisation in India, reconstruction of armed forces after 1947, Higher Defence Organisation as well as Intelligence Organisation in India.</li> <li>The basic aim of the paper is to introduce</li> </ul>

		<p>students to Defence Organisation of India. This paper will cover military organisation in India, reconstruction of armed forces after 1947, Higher Defence Organisation as well as Intelligence Organisation in India.</p>
	S.Y.B.A.	<ul style="list-style-type: none"> <li>• The emphasis is on the strategies and tactics used and on the approaches to war. Specific battles would be used as illustrations for the study.</li> <li>• To learn about Chhatrapati Shivaji Maharaj as a Nation Builder</li> <li>• To understand about the Maratha Military Organization</li> <li>• To gain knowledge of Military History</li> </ul>
	T.Y.B.A.	<ul style="list-style-type: none"> <li>• An understanding of the ever-changing different issues directly or indirectly involved in the study of National security beyond military dimension.</li> </ul>
M. A. Economics		<ul style="list-style-type: none"> <li>• Have a Basic Micro- Economic Problems of Scarcity and Choice.</li> <li>• Acquaint with Consumer Theory and Production Theory</li> <li>• Awareness regarding Externality, Concept of Social Welfare</li> <li>• Understanding of the Role and functions of the Government in an economy have been changing with the passage of time</li> <li>• An overview of Classical and Modern Trade Theories</li> <li>• Clear Concepts of Net Barter Terms of Trade and understanding of the Gross Barter Terms of Trade,</li> <li>• Understanding the Factors affecting Terms of Trade Terms of Trade and Economic Development</li> <li>• Aware of the Effects of Tariffs under Partial Equilibrium. (Price Effect, Terms of Trade Effect, Competitive Effect, Income Effect, Revenue Effect)</li> <li>• Acquaint with International Trade Agreements.</li> <li>• Critically analyze various issues pertaining to India's economic development.</li> <li>• Understand the performance of the economy assessed on the backdrop of various Five Year Plans implemented in the economy.</li> <li>• Critical appraisal is expected by taking cognizance of the contemporary developments in the economy</li> </ul>

		<ul style="list-style-type: none"><li>• Clear Classification of Markets and Monopoly</li><li>• Analyze the Short Run and Long Run Equilibrium of a Single Firm an Industry under competitive conditions</li><li>• Understand the Equilibrium of a Firm under Monopoly (Short Run and Long Run)</li><li>• Analyze the Price Discrimination under Monopoly, different types.</li><li>• Comparison of Monopoly and Perfectly Competitive Market outcomes.</li><li>• Monopolistic Competition, Price and Non-price competition, Equilibrium.</li><li>• Acquaint with Product Differentiation, Selling Costs and Excess Capacity.</li><li>• Understanding of the Theory of Distribution and Welfare Economics</li><li>• Analyses of the Budget – Meaning and Components. Preparation, Presentation and Execution of Budget.</li><li>• Equipped with the understanding of International Finance, Agricultural Economics, Industrial Economics</li></ul>
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<p>M. A. English</p>		<ul style="list-style-type: none"> <li>• Aware of the major movements and figures of English Literature through the study of selected literary texts</li> <li>• Literary sensibility and emotional response to the literary texts and implant sense of appreciation of literary texts created.</li> <li>• Expose to the artistic and innovative use of language employed by the writers</li> <li>• Instilled values and develop human concern in students through exposure to literary texts</li> <li>• Enhanced literary and linguistic competence.</li> <li>• Literary sensibility for appreciation and exposed to artistic and innovative use of language by writers and to various worldviews</li> <li>• Introduced to the basic tools essential for systematic study of language</li> <li>• Acquainted with the basic concepts and issues in linguistics</li> <li>• Introduced to various sub-disciplines of linguistics</li> <li>• Enabled to apply the acquired linguistic skills in real life situations</li> <li>• Introduced to the nature, function and relevance of literary criticism and theory</li> <li>• Introduced to various important critical approaches and their tenets</li> <li>• Encouraged to deal with highly intellectual and radical content and thereby developing logical thinking and analytical ability</li> <li>• Develop sensibility and competence in them for practical application of critical approach to literary texts</li> </ul>
<p>M. A. Geography</p>		<ul style="list-style-type: none"> <li>• Understanding of the latest concepts in Geomorphology.</li> <li>• Acquainted with the utility and application of Geomorphology in different regions and environment.</li> <li>• Aware of the need of protection and conservation of different landforms.</li> <li>• Idea of the basic principles and concepts in Climatology and Oceanography and its applications in different areas and environment.</li> <li>• Well-versed with the concept of disaster &amp; its relation with Geography and the utility &amp; application of hazards in different areas &amp; its management.</li> </ul>

		<ul style="list-style-type: none"> <li>• Knowledge of the need of protection &amp; disaster management.</li> <li>• Acquaint with the applications of Economic Geography in different areas and development.</li> <li>• Acquaint with the principles of surveying, its importance and utility in the geographical study.</li> <li>• Aware of the utility and application of Tourism.</li> <li>• Can use various Projections and Cartographic Techniques.</li> <li>• Acquaint with basics of Statistical data and diagrams</li> </ul>
		<ul style="list-style-type: none"> <li>• Understanding of the physical &amp; cultural characteristics of India with importance to regional geography.</li> <li>• Sensitized with development issues and policies and programmes designed for regional development</li> <li>• Acquaint with the nature of man environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living.</li> <li>• Able to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community.</li> <li>• Acquaint the students with the applications of Agriculture Geography in different areas and development. The main aim is to integrate the various factors of Agriculture development and to acquaint the students about this dynamic aspect of Agriculture Geography</li> <li>• Familiar with the global and regional distribution of population &amp; equips them for comprehending the Indian situation.</li> <li>• Acquaint with the spatial and structural characteristics of human settlement under varied environment conditions.</li> <li>• Introduced to SOI Toposheets Arial Photographs &amp; Satellite Image to acquire the knowledge physical &amp; cultural features and trained to handle these statistics towards analyzing the geographical problems.</li> </ul>

		<ul style="list-style-type: none"> <li>• Acquaint with IMD weather maps and to gain the knowledge of weather map Reading / interpretation.</li> <li>• Trained in elementary statistics which is an essential part of geography.</li> <li>• Awareness about GIS.</li> </ul>
M. A. Psychology		<ul style="list-style-type: none"> <li>• Developed insight into one's own and others' behaviour and underlying mental processes,</li> <li>• Enriched with understanding of major concepts, theoretical perspectives, and empirical findings in cognitive psychology</li> <li>• Acquaint with the processes involved in sensation and perception</li> <li>• Understanding of the different statistical methods with their uses and interpretations,</li> <li>• The administration of psychological tests, interpretation of scores and report writing,</li> <li>• Evaluate the procedures and evaluation of psychological tests,</li> <li>• Certain skills of psychological counselling on the basis of psychological test results.</li> <li>• Understand the origin of cognitive psychology</li> <li>• Explore the knowledge of cognitive psychology</li> <li>• Awareness with the recent trends in cognitive psychology.</li> <li>• Critical understanding of measurement issues and techniques in psychological inquiry.</li> <li>• Enabled to develop skills and competencies in test construction and standardization.</li> <li>• Understand the various biases in psychological testing and assessment.</li> <li>• Informed about the basics of scientific research in applied psychology.</li> <li>• Knowledge of the statistical rigors in designing research and processing data.</li> <li>• The administration of the standardized psychological tests, rapport establishment, interpretation of scores and report writing.</li> <li>• The criteria's of evaluating psychological tests</li> <li>• Certain counseling skills on the basis of psychological results</li> </ul>
		<ul style="list-style-type: none"> <li>• Acquaint with various types, models and theories of learning and memory,</li> </ul>

		<ul style="list-style-type: none"><li>• Acquaint with Neurological basis of learning and memory,</li><li>• Understanding of the Applications of the principles of learning and memory</li><li>• acquaint with various psychological assessment techniques</li><li>• Clear understanding of the basic terminology of advanced research techniques, can follow the research reports and papers in different branches of psychology.</li><li>• Acquaint with the different areas of experimentation in psychology,</li><li>• Acquaint with various skills of conducting experiments in psychology,</li><li>• Understand the advances in cognitive psychology</li><li>• Awareness of the application of cognitive psychology in different fields</li><li>• Understand how psychological tests are used for the purpose of assessment, guidance and enhancing the effectiveness of teaching-learning process.</li><li>• Understand the use and interpretation of various psychological tests used in educational field.</li><li>• Understand the use of psychological tests are used for better health, adjustment and related counselling.</li><li>• Understand the use of psychological tests in clinical and organizational settings</li><li>• Awareness about the philosophical foundations, goals and scope of qualitative methodology.</li><li>• Developed an understanding about the relationship between paradigms of science and methods of qualitative inquiry.</li><li>• Understanding the basic procedures of using qualitative methodology.</li><li>• Exposed to the statistical rigours in multivariate analysis.</li><li>• Exposure to various areas of experimentation in psychology</li><li>• Skills required in conducting experiments in psychology</li><li>• Applications of experimental design and report writing style</li></ul>
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<b>Subject</b>	<b>Program &amp; Course</b>	<b>Course Outcomes</b>
<b>Biotechnology</b>	<b>F. Y. B. Sc.</b>	<p>This is an interdisciplinary course, so at First year level students study basics of all subjects like Fundamentals of Chemistry, Physics, Biosciences, Mathematics, Biological Chemistry, use of computers as well as biostatistics.</p> <p>In practicals, students learn basic s which help them to take least count of various instruments, chromatography technique.</p> <p>Understand different laws using colorimeter and spectroscopy, Dissect honey bee sting and mouth parts, Identify Fascicle and Plasmodium signet ring stage, recognize Drosophila mutants and lifecycle stages.</p> <p>Plant Science: Introduction to basic morphology and anatomy of angiosperms, Study of plant physiological experiments. Preparation of herbarium.</p> <p>Learn different tests of hypothesis and representation of outcomes by analyzing the methods.</p>
	<b>S. Y. B. Sc.</b>	<p>This includes Genetics, Cell and molecular biology and Environmental Biotechnology. Student of this class various aspects like Mendelian genetics, Operon systems, microbial genetics.</p> <p>Basic structure of cell, cell organelles and their function, DNA double helix structure, transport mechanism across the plasma membrane. Cell division and cell senescence, etc.</p> <p>Biodiversity, principles, ecosystems, basic understanding of concept and each part of environment, soil, air and water, etc.</p>
	<b>T. Y. B. Sc.</b>	<p>This includes microbial genetics, plant and animal tissue culture and biodiversity and systematics.</p> <p>This will help students to understand use of microorganisms at industrial level. Students will get basic information about plant as well as animal in-vitro cultures, mass propagation of plants, etc.</p> <p>Introduction to plant, animal and microbial diversity and interaction between them. Learn conservation tools and different acts of biodiversity conservation.</p>

<b>Botany</b>	<b>F. Y. B. Sc.</b>	<p>foundation courses w.r.t. plant diversity, physiology cell biology and molecular biology</p> <p>Use of botany at Industrial level Gardening practices, Morphology etc.</p> <p>To make students aware of the importance of botany in day to day life.</p>
	<b>S. Y. B. Sc.</b>	<p>Get familiar with basics of ecological tools and ecological groups of plants,</p> <p>Understanding of food chain, food web difference and importance</p> <p>To create awareness w.r.t. protection and conservation of our biodiversity.</p>
	<b>T. Y. B. Sc.</b>	<p>At graduate level, its combination of both fundamental and applied studies where, phycology, mycology, physiology, biochemistry, Biotechnology, plant breeding, seed technology.</p> <p>Students get the basic knowledge of research methodology with some subjects like biostatistics and computational botany.</p>
		<ul style="list-style-type: none"> <li>• A student will get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning</li> <li>• A student will get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.</li> <li>• The students will be able to apply their skills and knowledge, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.</li> <li>• To learn basic programming and languages like 'C' data processing, to understand creation, manipulation and querying of data in databases.</li> <li>• Appropriate use of datatypes and uses.</li> </ul>

	<p><b>S. Y. B. Sc.</b></p>	<p>Make the students familiar with current and recent technological developments in electronics. It enriches knowledge of the students through activities such as industrial visits, seminars, projects etc. The students get a foundation for research and development in Electronics.</p> <p>To develop analytical abilities towards real world problems.</p> <p>Write C++ programs that use object oriented concepts such as information hiding, constructors, destructors, inheritance etc.</p>
	<p><b>T. Y. B. Sc.</b></p>	<p>To understand the design structure of a simple editor, Assembler and macro processor.</p> <p>To understand the working of linkers and loaders and other development utilities.</p> <p>To understand Complexity of Operating system as a software</p> <p>To understand design issues related to process management, memory management, File management and various related algorithms</p> <p>To have an understanding of finite state and pushdown automata, regular languages and context free languages.</p> <p>To study the Turing machine and classes of problems.</p> <p>To understand design issues of a lexical analyzer and use of Lex tool, design issues of a parser and use of Yacc tool</p> <p>To understand issues related to memory allocation and understand and design code generation schemes</p>
	<p><b>F. Y. B. Sc.</b></p>	<p>Basic circuit elements and passive components</p> <p>DC circuit theorems and their use in circuit analysis</p> <p>Characteristic features of semiconductor devices</p> <p>Elementary electronic circuits and applications</p> <p>Concepts of digital electronics</p> <p>Number systems and their representation</p> <p>Basic logic gates, boolean algebra and k-maps</p>

<b>Electronic science</b>	<b>S. Y. B. Sc.</b>	<p>Basic principles of amplifiers and oscillators.  The working of various analog circuits.  Analog circuit design skills.  The knowledge of analog circuits in different applications.  K-maps in the design of combinational circuits.  The design principles of sequential circuits.</p>
	<b>T. Y. B. Sc.</b>	<p>Amplitude and Frequency Modulation.  Basics of AM and FM Receivers.  The digital communication system.  Architecture of 8-bit microcontroller.  How to use instruction set and addressing modes of microcontroller.  How to develop assembly language programming skills.  Interface memory and I/O devices.  The practical design aspects while using Opamps  The basic application circuits of Opamps  The specifications and selection criterion for linear ICs</p>
<b>Mathematics</b>	<b>F. Y. B. Sc.</b>	<p>Recognize that mathematics permeates the world around us.  Appreciate the usefulness, power and beauty of mathematics.  Enjoy mathematics and develop patience and persistence when solving problems.  Understand and be able to use the language, symbols and notation of mathematics  Appreciate the international dimension of mathematics and its multicultural and historical perspectives.  Develop mathematical curiosity and use inductive and deductive reasoning when solving problems.  Become confident in using mathematics to analyze and solve problems both in school and in real-life situations.  Develop the knowledge, skills and attitudes necessary to pursue further studies in mathematics.</p>
	<b>S. Y. B. Sc.</b>	<p>Definition and examples of vector space.  Concepts of vector space &amp; linear independence. Basis and dimension of a vector space.  Definition and example of linear</p>

		<p>transformation. The inner product spaces. Concepts of Eigen values and Eigen vectors.</p> <p>Concepts of errors. Concept of fitting of polynomial. The different types of operators. Numerical Integration, Numerical differentiation, Interpolation.</p>
	<b>T. Y. B. Sc.</b>	<p>The concepts in metric spaces are generalization of limit and continuity of functions from one metric space to other metric spaces.</p> <p>Real-valued functions, countability, cantor set, Sequences of real numbers, convergence, divergence, Cauchy sequences, series of real numbers, convergence and divergence of series</p> <p>Concept of Group, Subgroup, cyclic group and their properties. Group homomorphism and isomorphism. Cosets, direct product.</p> <p>This helps to students to solve initial value Problems and linear differential equations of higher order as well as initial value problems of system of linear differential equations of first order. Helps in solving problems in Physics, economics, etc.</p> <p>Students understand: Two variable LP model, Graphical LP solution, LP applications, Simplex, dual, Two phase method to solve LP model. Transportation, assignment models and their applications.</p> <p>In the course student learn basic topic about C namely data types, functions and arrays. Also learn a skill to formulate C programs to solve small problems in Discrete Mathematics</p> <p>Basic algebraic properties of Complex numbers, Continuity, differentiability of Functions of complex variables, Analytic functions, Integrals, series of complex numbers, residues and poles Riemann integrals, fundamental theorem of integral calculus, mean value theorem</p>
	<b>F. Y. B. Sc.</b>	<p>The student should be able to acquire a fundamental/ systematic or coherent understanding of the academic field of Physics, its different learning areas and</p>

<p><b>Physics</b></p>		<p>applications in basic Physics like Material science, Nuclear Physics, Condensed Matter Physics, Atomic and Molecular Physics, Mathematical Physics, and its linkages with related disciplinary areas / subjects like Chemistry, Mathematics.</p> <p>Procedural knowledge that creates different types of professionals related to the disciplinary/subject area of Physics, including professionals engaged in research and development, teaching and government/public service</p>
	<p><b>S. Y. B. Sc.</b></p>	<p>Demonstrate the ability to use skills in Physics and its related areas of technology for formulating and tackling Physics-related problems and identifying and applying appropriate physical principles and methodologies to solve a wide range of problems associated with Physics.</p> <p>Recognize the importance of mathematical modeling simulation and computing,</p> <p>Plan and execute Physics-related experiments or investigations, analyze and interpret data/information collected using appropriate methods including the use of appropriate software such as programming languages.</p>
	<p><b>T. Y. B. Sc.</b></p>	<p>Demonstrate relevant generic skills and global competencies such as (i) problem-solving skills that are required to solve different types of Physics-related problems with well- defined solutions, (ii) communication skills involving the ability to listen carefully, to read texts and research papers analytically and to present complex information; (iv) ICT skills;</p>

		(v) personal skills such as the ability to work both independently and in a group
<b>Zoology</b>	<b>F. Y. B. Sc.</b>	Basic classification systems and life cycles of model organisms like Drosophila, Pamoecium, etc. Basic characters of each class, order helps student to identify unknown animal or insect or bird, etc. Applied zoology allow student to study beekeeping, fisheries.
	<b>S. Y. B. Sc.</b>	At this level, student will get the knowledge of basic human genetics like sex-linked inheritance. They also get the brief knowledge of life cycles of Scoliodon, Star Fish, Cockroach consist of majority of different groups.
	<b>T. Y. B. Sc.</b>	At the graduate level, zoology offers both fundamental and applied subjects such as entomology, parasitology, toxicology, etc.