

## B.A - Economics,History,Political Science(E.H.P )

### Programme Specific Outcomes

**PSO 1:** Understand the basic concepts like National Income, Poverty, Employment, International trade, Fiscal and Monetary policies, Economic conditions of various historic periods, Satavahana's Foreign trade, numismatics, agriculture economy from ancient period to modern times and their role in administration for formulating relevant policies for effective utilisation of resources and tackling various problems like unemployment and improved standard of living.

**PSO 2 :** To analyse the economic importance of various sectors like agriculture, industry and service sector in different dynasties that influence administration like Chola administration (local self Government), Mauryan administration (Urban governance) and British administration.

**PSO 3:** To understand the impact of agriculture and foreign trade in economic development that attract foreign invaders towards India, resulting in changed administration in due course upto and after independence.

**PSO 4:** To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians/ History writing and bureaucrats at various levels.

To promote values such as sustainable development, Optimum utilisation of resources, patriotism, respecting the ideals of freedom struggle and responsible citizenship, political participation and socialisation.

## BA - GEOGRAPHY, HISTORY, POLITICAL SCIENCE(G.H.P )

### Programme Specific Outcomes

**PSO 1:** Understand the physical and political boundaries of dynasties from ancient period to modern times.

**PSO 2:** To analyse the influence of Indian location and geographical features such as Himalayas and oceans, plains attract the foreign invaders for political and commercial establishments.

**PSO 3:** To examine the relationship between the administration and historical legacy.

**PSO 4:** To provide skills required for gainful employment by using knowledge of geography, history and political science such as Surveyors, Tourist guides and Political analysts.

**PSO 5:** To inculcate various values such as the sense of belonging to a particular nation, respecting the ideals of freedom struggle and responsible citizenship and promoting these values.

**BA - ECONOMICS, STATISTICS, COMMERCE(E.S.C )**  
**Programme Specific Outcomes**

**PSO 1:**To study and understand the concept of Economics, Statistics & Commerce

**PSO 2:**To acquire knowledge in Computer programming to solve economics and statistics problems.

**PSO 3:**To know the application of statistical and mathematical tools to economic problems.

**PSO 4:**To predict and estimate the economic variables like national income,demand ,supply and population using mathematical and statistical models.

**PSO 5:**The students should thoroughly have the computer background to solve the data related to economics and statistics.

**BA - HISTORY, ECONOMICS, TELUGU(H.E.T )**  
**Programme Specific Outcomes**

**PSO 1:** The historic study of literature promotes research bent of mind that help in understanding economic aspects of the ancient period.

**PSO 2:** Skills of careful perception, imagination and creativity from literature. Understanding public, their attitude, the techniques of administering them

**PSO 3:** Develop Skills such as Sharp thinking, careful observation, critical assessment, balanced evaluation, comparison and contrast can be inculcated

**PSO 4:** The study of sections of religious works in literature provide platform for the study of History and Economy of ancient periods and provide necessary inputs for the present and future generations.

## BA - HISTORY, PHILOSOPHY, SPECIAL ENGLISH (H.P.Eng)

### Programme Specific Outcomes

**PSO 1:** Understanding the basic concepts of philosophy and its tools such as rhetoric, logic and rational approach to study literary genres, and phases of English, American, commonwealth literatures that use historical personalities, wars, movements and documents that contribute as background.

**PSO 2:** Analyse compare and contrast logically and scientifically the various literary works and movements such as expressionism, realism, and the various historical events and achievements and their merits and demerits and their impact on humanity to pave path for future of humanity

**PSO 3:** To inculcate Skills such as critical thinking, logical approach from philosophy, imagination, creativity and positive attitude and together with communication skills from literature and passion, aptitude, comparison and contrasting from history

**PSO 4:** Application of the principles deduced from classics , romanticism, and Victorianism in English literature and the historical battles of mankind, their socio and economic struggles and landmarks in history to strengthen the study of philosophy.

**BA - PHILOSOPHY, PUBLIC ADMINISTRATION SPECIAL TELUGU  
(P.P.T)  
Programme Specific Outcomes**

**PSO 1:** The philosophic study of literature promotes research bent of mind that help in understanding public aspiration to administer them.

**PSO 2:** Skills of careful perception, imagination and creativity from literature

**PSO 3:** Logical thinking, critical arguments and rational approach from philosophy

**PSO 4:** Understanding public, their attitude, the techniques of administering them

**PSO 5:** Develop Skills such as Sharp thinking, careful observation, critical assessment, balanced evaluation, comparison and contrast can be inculcated

**PSO 6:** The study of sections of religious works in literature provide platform for the study of philosophy

## BA - ECONOMICS, STATISTICS, COMPUTER APPLICATIONS (E.S.CA)

### Programme Specific Outcomes

**PSO 1:** To study and understand the concept of Economics, Statistics & Computers

**PSO 2:** To acquire knowledge in Computer programming to solve economics and statistics problems.

**PSO 3:** To know the application of statistical and mathematical tools to economic problems.

**PSO 4:** To predict and estimate the economic variables like national income, demand, supply and population using mathematical and statistical models.

**PSO 5:** The students should thoroughly have the computer background to solve the data related to economics and statistics.

**BA - POLITICAL SCIENCE, ENGLISH LITERATURE, JOURNALISM AND  
MASS COMMUNICATION(P.E.JMC)  
Programme Specific Outcomes**

**PSO1.** To understand basic concepts in Political Science, English Literature, Journalism and Mass Communication and their inter-relationship with each other.

**PSO2.** To appreciate that proficiency in Journalism and Mass Communication requires holistic awareness about functioning of the State and Government in their respective areas of operation.

**PSO3.** To learn that good language and communication skills are an added advantage for a career in prospective journalism.

**PSO4.** To know the complementarities between Political Science and English Literature as majority of political thinking and writing is from the West and there is synergy in literature between the East and the West.



## BA - HISTORY, ECONOMICS, TOURISUM AND TRAVEL MANAGEMENT (H.E.TTM)

### Programme Specific Outcomes

**PSO 1:** Understand the basic concepts like National Income, Poverty, Employment, International trade, Fiscal and Monetary policies, Economic conditions of various historic periods, and their role in tourism and travel management for effective utilisation of resources.

**PSO 2:** To analyse the economic importance of tourism policies of national and international.

**PSO 3:** To understand the impact of foreign trade and tourism policies in economic development that attract national and international tourists.

**PSO 4:** To provide life skills required for gainful employment by using domain knowledge such as Economic Service, Historians, tourist guides, hotel management, event management and travel services.

**BA - PUBLIC ADMINISTRATION, RURAL DEVELOPMENT, SOCIAL  
WORK (P.RD.SW)  
Programme Specific Outcomes**

**PSO 1.** To understand basic concepts in Public Administration, Rural Development, Social Work and their inter-relationship with each other.

**PSO 2.** To learn how Public Administration plays a key role in planning and implementation of various development programmes and activities in rural areas and also, the role of social workers in proper execution of development activities.

**PSO3.** To know that society is the main source of information and feedback for formulation of different public policy decisions and hence the relationship between the administration at State and Society levels.

**PSO 4.** To be aware that development in rural areas happens only with the participation of local communities and inculcating social service among rural youth is essential for success of rural development initiatives.

## B.B.A (Bachelor of Bussiness Administration) Programme Specific Outcomes

**PSO1:** Understand the functional areas in business, accounting, marketing, finance, economics, law and management.

**PSO 2:** Understand the process of identifying business opportunities and threats.

**PSO3:** Ability to address business problems and address ethical issues in the business environment.

**PSO 4:** Ability to predict the changes in business environment and their impact on global markets.

**PSO 5:**Employ effective communicative skills.

## **B.COM (General) Programme Specific Outcomes**

**PSO 1 :** To understand the nature, scope and concepts of Accounting, Business Operations and Management.

**PSO 2 :** To analyse the relationship between Accounting, Auditing and Taxation.

**PSO 3 :** To understand the application of Corporate Accounting Principles and Practices in real time business situations.

**PSO 4 :** To equip the students with leadership skills and knowledge in computing skills.

**PSO 5 :** To enable the students to understand the legal environment and its effect on business, industry, commerce and management.

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**PSO 5 :** To enable the students to understand the legal environment and its effect on business, industry, commerce and management.

## **B.COM (Computer Applications) Programme Specific Outcomes**

**PSO 1 :** To understand the nature, scope and concepts of Accounting, Business Operations and Management.

**PSO 2 :** To enable the students to understand the concepts of computer software and its applications in business operations.

**PSO 3 :** To equip the students with business analytics and e-commerce skills.

**PSO 4 :** To develop the students with communication, leadership and entrepreneurial skills.

**PSO 5 :** To make them learn the latest technologies and their application in modern business operations.

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**PSO 4 :** To develop the students with communication, leadership and entrepreneurial skills.

**PSO 5 :** To make them learn the latest technologies and their application in modern business operations.

## **B.Com B.I & FS (Banking, Insurance, Financial Services) Programme Specific Outcomes**

**PSO 1:** To understand the nature, scope and concepts of Accounting, Business Operations and Management.

**PSO 2:** To understand the nature, scope and concepts of financial services sector.

**PSO 3:** To equip the students with latest skills and knowledge required in banking, financial services and insurance sector.

**PSO 4:** To develop the students with leadership and entrepreneurial skills required by the BI&FS sector.



## B.Sc - Mathematics, Physics, Chemistry (M.P.C) Programme Specific Outcomes

**PSO 1:** Understand the theoretical concepts of physical and chemical properties of materials and the role of mathematics in dealing with them in a quantitative way.

**PSO 2:** Analyse the concepts of mathematics, physics and chemistry and understand the relation among them like physical chemistry, mathematical modelling of physics and chemistry problems.

Skills needed to handle instruments and adopt lab procedures to study physical chemical properties of materials.

**PSO 3:** Mathematical, numerical techniques required to model them.

**PSO 4:** Ability to interlink the skills and knowledge in mathematics, physics and chemistry and develop an aptitude to address the problems in biophysics, stock market analysis.

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**B.Sc - Botany, Zoology, Chemistry (B.Z.C)**  
**Programme Specific Outcomes**

**PSO 1:** To understand principles of origin of life and its evolutionary trends, Microbial diversity, chemical theory related to origin of life

**PSO 2:** To analysis the taxonomic range of various life forms as per their external characters and internal chemical constitutions ( chemo taxonomy)

**PSO 3:** The knowledge About of ecological and phyto geographical studies related in environmental biodiversity with biotic and abiotic factors

**PSO 4:** Skills to study the principles of tissue culture techniques in biology leads to various diversity of life forms (hybrids) by using chemically synthesised growth hormones.

**PSO 5:** Ability to design the evolution of drugs form the biological sources and its applications without any side effects in nature.

**B.Sc - Botany, Zoology, Chemistry (B.Z.C)**  
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**PSO 5:** Ability to design the evolution of drugs form the biological sources and its applications without any side effects in nature.

## B.Sc - Mathematics , Economics, Statistics (M.E.S) Programme Specific Outcomes

**PSO 1:** Expose the students to various concept in Economics, Mathematics and Statistics and encourage them to uphold scientific integrity and objectivity in professional knowledge.

**PSO 2:** Understand and develop excellent mathematical, statistical and problem-solving skills

**PSO 3:** Solve and understand the ability to solve economic problems and to estimate future prediction by means of mathematics and statistics models.

**PSO 4:** To develop analytical and research skills and to carry out studies regarding economic scenarios.

**B.Sc - Mathematics , Physics, Geology (M.P.G)**  
**Programme Specific Outcomes**

**PSO 1:** Understand the concepts of physical and structural properties of materials especially rocks, and minerals. Learn mathematical basics required to deal with Geographical Information System

**PSO 2:** Analyse the physical, structural, optical properties of various rocks, minerals, structural features of various land forms

**PSO 3:** Acquire the skills to study the ground water movements, mechanical, optical properties of minerals and various rock

**PSO 4:** The skills acquired, develop an aptitude to address issues related to quantitative analysis of mineral deposits, hydrogeological studies, Oil and gas exploration.

**B.Sc - Mathematics , Geology , Chemistry (M.G.C)**  
**Programme Specific Outcomes**

**PSO 1:** Under theoretical concepts of chemical properties of materials like symmetry of crystal systems, lattice points, miller indices, inter planar spacing's and the role of mathematics in dealing with them in a quantitative way.

**PSO 2:** Analyse the concepts of mathematics, geology and chemistry and understand the relation among them like solid state chemistry, mathematical modelling of Geological parameters and chemistry problems.

**PSO 3:** Skills needed to handle instruments and adopt lab procedures to study geological, chemical properties of materials. Mathematical, numerical techniques required to model them.

**PSO 4:** Ability to interlink the skills and knowledge in mathematics, geology and chemistry and develop an aptitude to address the problems in geographical data and in deriving chemical theories.

**B.Sc - Mathematics , Statistics , Computer Science (M.S.CS)**  
**Programme Specific Outcomes**

**PSO 1:** Understand the concepts of vector spaces, group theory, probability, distributions, sampling techniques, algorithm design, data base design and web design.

**PSO 2:** Analyse the concepts of mathematics, statistics and computers science able to use them in algorithm design and data science.

**PSO 3:** Acquire the skills to use various sampling techniques, statistical inference, data analysis in MS-Excel, implementation of numerical algorithms by using various programming languages.

**PSO 4:** Ability to interlink the skills developed and develop an aptitude to address the problems in DBMS, web and mobile app development.



## B.Sc - Mathematics , Physics , Computer Science (M.P.CS)

### Programme Specific Outcomes

**PSO 1:** Understand the concepts of vector spaces, group theory, quantum mechanics, optical,

thermal, electrical, mechanical properties of a materials, probability, algorithm design, data base

**PSO 2:** Understand the concepts of vector spaces, group theory, quantum mechanics, optical, thermal, electrical, mechanical properties of a materials, probability, algorithm design, data base

**PSO 3:** Analyse the concepts of mathematics, physics and computers science able to relate them in numerical programming of models of physical systems.

**PSO 4:** Acquire the skills to study the properties of materials, implementation of numerical algorithms by using various

**PSO 5:** Ability to interlink the skills developed and acquires an aptitude to address the problems in simulations of material properties, web and mobile app development.

## B.Sc - Botany , Biotechnology , Chemistry (B.B.C) Programme Specific Outcomes

**PSO 1:**The program Biotechnology, Botany and chemistry has been introduced to prepare the students for a career which finds application and provides solution to some of the major contemporary problems on the earth i.e., providing food for growing population, designing advanced medical treatment options for increasing –evolving diseases, to find solution to deteriorating environment caused due to over exploitation / misuse of natural resources etc.,

**PSO 2:**In this program the study of botany offers the understanding about origin of life and the scope to manipulate the knowledge for better society through catering to the needs and growing demands of food and clothing to population.

**PSO 3:**In this program the knowledge about the subject chemistry comes in to play when structures of biomolecules and their interactive relations to the environment are to be understood.

**PSO 4:**Finally the subject biotechnology amalgamates the various disciplines of sciences and offers ethically acceptable knowledge to bring about sustainable solutions for a variety of problems related to Agriculture, Environment, Quality of human life. These problems are solved with responsibility using appropriate tools while keeping in mind safety factor of Environment and society.

## B.Sc - Microbiology, Zoology, Chemistry (M.Z.C) Programme Specific Outcomes

**PSO 1:** Developing deeper understanding of key concepts of Microbiology, Zoology, Chemistry at biochemical, molecular and cellular level, physiology and reproduction at organismal level, and microbial world, useful and harmful microorganisms.

**PSO 2:** Ability to develop theoretical and practical knowledge in handling the animals microbes with chemicals in labs and using them as model organism.

**PSO 3:** Imparting knowledge regarding r-DNA technology, E-Coli bacteria and its uses in r-DNA chemicals using in different biological techniques

**PSO 4:** Understand the methods and applications of nucleic acid probes, blotting techniques, DNA finger printing, DNA foot printing, methyl interference assay and polymerase chain reaction and apply this techniques in chemical laboratories for his carries

## B.Sc - Mathematics, Statistics, Actuarial Science (M.S.AS)

### Programme Specific Outcomes

**PSO 1:** Understand the basic concepts of Financial Mathematics, Statistical tools and techniques, nature and scope of economics, commerce life insurance policies, actuarial science concept.

**PSO 2:** Strong knowledge of statistical methodology and its applications in the fields of economics, economic management, finance, insurance

**PSO 3:** Deep knowledge of mathematical models, specifically probability models to apply to finance and actuarial phenomena as well as economic and corporate sciences.

**PSO 4:** Deep knowledge of quantitative models in the area of risk management.

**PSO 5:** Application of mathematical and statistical methods to assess risk in insurance, finance and other industries and professions.

**B.Sc - Geology , Geography , Computer Science (G.G.C)**  
**Programme Specific Outcomes**

**PSO 1:** Understand the basic concepts of geomorphology, natural resources, mineral exploration, procedural and object oriented programming, remote sensing and GIS.

**PSO 2:** Analyse the properties of various rocks, minerals, various climatic conditions, areal interpretation using image processing tools.

**PSO 3:** Acquire skills for Systematic collection of various rocks, minerals and analyse them through experimental procedures. Identifying various land forms and creating 2D, 3D profiles of them. Image processing tools, DBMS, Digital Elevation Model.

**PSO 4:** With the skills acquired, develop aptitude to address issues related to urban sprawl, target site analysis, natural hazard assessment, watershed management, 3D data analysis.

**B.Sc - Mathematics, Statistics, Econometrics (M.S.Em)**  
**Programme Specific Outcomes**

**PSO 1:** Understand the concepts of mathematics, statistics econometrics

**PSO 2:** Application of statistical methods to economic data in order to give empirical content to economic relationships.

**PSO 3:** Analyse the tools and techniques of mathematics and statistics to economic theory.

## B.Sc - Botany, Biotechnology, Chemistry (B.B.C.AGRO) Programme Specific Outcomes

**PSO 1:** This program of Agrobotany, Agrobiotechnology and Agrochemistry is specially designed to solve the problems related to agriculture and to fortify the crop products, to produce genetically modified crops to withstand various biotic and abiotic stress. To enhance production of economically important plants.

**PSO 2:** With advanced techniques in biotechnology, shelf life is enhanced, artificial ripening is caused which helps efficient trading

**PSO 3:** In Agrobotany we study about structure, classification and evolution of plants. Study about physico-chemical characters of soil, which helps us to know about requirements and hindrances faced in the agriculture. So it helps to find solutions.

**PSO4:** In Agrochemistry we study about the chemical compositions present in different soils. Study of production, usage of various chemical fertilizers, pesticides, insecticides on the crops.

**B.Sc - Microbiology, Zoology, Chemistry Food (M.Z.C Food)**  
**Programme Specific Outcomes**

**PSO 1:** Understanding of key concepts of Food Microbiology, zoology, Food chemistry and importance of Carbohydrates, proteins, lipids, and vitamins in our daily life.

**PSO 2:** Students able to get the knowledge about food preservation, food colouring ,food packaging ,food quality analysis

**PSO 3:** Understanding microbial activity on food material and their impact on food industry

**PSO 4:** Student able to analyse the production of food material basing on the needs,and demand of the population



## B.Sc - Mathematics, Physics, Renewable Energy Management (M.P.REM) Programme Specific Outcomes

**PSO 1:** Understand the concepts of physics, various renewable energy resources and use mathematical concepts to deal with them quantitatively.

**PSO 2:** Analyse problems associated with solar, wind, ocean and bio energy and energy storage systems.

**PSO 3:** Acquire the skills to study the mechanical, thermal, electrical and electronic properties of materials used for solar, wind, ocean and bio energy.

**PSO 4:** Ability to interlink the skills acquired and develop an aptitude to address the problems in the production, storage and usage stages of renewable energy systems.

## B.Sc - Mathematics, Electronics, Internet of Things (M.E.IoT) Programme Specific Outcomes

**PSO 1:** Understand the concepts of basic electronic components, networks, communication systems, microprocessors and micro controllers, algorithms, C language, Arduino programming, Networking, cloud and Big Data.

**PSO 2:** Analyse the concepts of mathematics, Electronics and computer Networks and able to use them in solving real world problems.

**PSO 3:** Acquire the skills to use various electronic components, microprocessor, microcontroller, Arduino, Raspberry PI and simulators.

**PSO 4:** Ability to interlink the skills developed and gets an aptitude to address the problems in smart home design, smart vehicles, smart sensors in various fields.

**B.Sc - Mathematics, Chemistry, Analytical Chemistry (M.C.AC)**  
**Programme Specific Outcomes**

**PSO 1:** Understand the theoretical concepts of physical and chemical properties of materials and the role of Mathematics in dealing with them in a quantitative way.

**PSO 2:** Analyse the concepts of Mathematics, Chemistry and Analytical chemistry and understand the relation among them like mathematical modelling of chemistry, numerical problems and deriving the equations in chemistry.

**PSO 3:** Skills needed to handle the instruments and adopt the laboratory procedures for the study of various chemical and analytical aspects.

**PSO 4:** Mathematical and numerical techniques are required to present or record the result obtained by various classical and instrumental analysis and also essential for the maintenance of laboratory notes.

## B.Sc - Botany, Chemistry, Horticulture (B.C.Hor) Programme Specific Outcomes

**PSO 1:** Basic concepts of Horticulture are an art of cultivating garden.

**PSO 2:** Variety of plants can be developed by various methods of Horticulture and Skill based opportunities can be enhanced for future settlement.

**PSO 3:** In order to understand the plant growth the chemistry of soil science Plays a vital role in the development of bio-diversity plants, animals and Environment that are interrelated to sustain the earth planet.

**PSO 3:** Quality of life is increased due to the balancing of Chemicals (Harmon's imbalance, deficiency of nutrients) can be rectified to improve the life span.

**PSO 4:** Horticulture therapy: - In older adults face more risk factors (dementia, aphasia, etc.,) which can be overcome with participating voluntarily in their leisure time in the therapy of horticulture in the Green House.

**PSO5:** The plants related to horticulture are said to be protective foods (Fruits & Vegetables) as they support the health with the vitamins and minerals etc.,

**B.Sc - Zoology, Chemistry, Aquaculture (Z.C.Aqua)**  
**Programme Specific Outcomes**

**PSO 1:** Detailed understanding of cold water fisheries, biology of important cold water fishes of India for better production of fishes in extreme condition. Learning classification of river in fisheries and their hydrological conditions.

**PSO 2:** Learning fishing techniques for localizing catches- remote sensing, sonar, radar; crafts and gears. An overview of post harvest technique to prevent fish spoilage for better preservation and quality control.

**PSO 3:** Understanding environmental impact of aquaculture, aquaculture wastes and future developments in waste minimization, environmental consequences of hypernitrification.

**PSO 4:** Learnt the general classification of fishes, economically important marine and freshwater fishes, migration and fishery products

## B.Sc - Mathematics , Geology , Computer Science (M.G.CS)

### Programme Specific Outcomes

**PSO 1:** Understand the concepts of physical and structural properties of materials especially rocks and minerals. Learn mathematical basics required to deal with Geographical Information System.

**PSO 2:** Analyse the physical, structural properties of various rocks and minerals and implementation of algorithms.

**PSO 3:** Acquire skills for Systematic collection of various rocks, minerals and analyse them through experimental procedures. Identifying various land forms and creating 2D, 3D profiles of them. Image processing tools, DBMS, Digital Elevation Model.

**PSO 4:** With the skills acquired, develop an aptitude to address issues related to quantitative analysis of mineral deposits, hydro-geological studies, and Oil and gas exploration.

## B.Sc - Mathematics , Geology , Computer Science (M.P.E) Programme Specific Outcomes

**PSO 1:** Understand the mechanism behind various electronic and physical systems and quantify them with firm mathematical tools.

**PSO 2:** Analyse the physical properties materials, electronic components to develop essential tools for better livelihood.

**PSO 3:** Skills to study the optical, thermal, electrical and electronic properties of materials and also to explore the properties of various electronic components, communication systems, microprocessor and micro-controller.

**PSO 4:** Ability to interlink the skills developed to design tools for internet of things, select proper materials for suitable electronic applications.