

# GOVERNMENT DEGREE COLLEGE FOR WOMEN, BEGUMPET

HYDERABAD – 500 016

(Autonomous - Affiliated to Osmania University)  
Re-Accredited with 'A+' Grade by NAAC



## PROGRAMME SPECIFIC OUTCOMES

### **B.A. (Economics-Political Science-Geography (MOOCs))**

PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

PSO3 –To analyse macro-economic policies including fiscal and monetary policies of India.

PSO4- To understand concepts of Political Science and gain knowledge about Indian politics

PSO5- To learn about Political Thinkers of ancient and Modern period

PSO6-Create appropriate and efficient Historians, Political Leaders, administrators and State'sman

PSO7-Understand theoretical and practical aspects of Economics and Geography

PSO8- Evaluate Economic behavior inconsonance with Geographical factors

PSO9- Suggest the policy makers about desirable changes to be made in Micro and Macroeconomic issues based on geographical factors

**B.A. (Economics-Political Science-Mass Communication& Journalism (MOOCs))**

PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

PSO3 – To analyse macro-economic policies including fiscal and monetary policies of India.

PSO4- To understand concepts of Political Science and gain knowledge about Indian politics

PSO5- To learn about Political Thinkers of ancient and Modern period

PSO6-Create appropriate and efficient Historians, Political Leaders, administrators and State'sman

PSO7- Students will be able to take up jobs in allied media industries and improve their Journalistic skills and learn to maintain the professional standards.

PSO8- The students will catering to the required skills related to report writing, editing, communications, news stories, advertising, RJs, News anchoring.

PSO9- To apply knowledge in Political and Economic Communication

**B.A. (Economics-Political Science-Public administration)**

PSO1 – To understand the changing Indian and Global Economies.

PSO2 – To analyse the Economic growth trends of Indian and World Economies.

PSO4- To understand concepts of Political Science and gain knowledge about Indian politics

PSO5- To learn about Political Thinkers of ancient and Modern period

PSO5- To be useful in preparations of competitive examinations

PSO6-Create appropriate and efficient Historians, Political Leaders, administrators and State'sman

PSO7-To understand the nature and role of Public Administration in the

changing socio-economic and political context

PSO 8-Understand the impact of political dynamics on administrative processes

PSO-9Relate the role of public administration to the dynamics of global context

### **B.A. (Economics-Psychology (MOOCs)-Geography (MOOCs))**

PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

PSO3 –To analyse macro-economic policies including fiscal and monetary policies of India.

PSO4 –To provide the student a basic understanding of the psychology of human behaviour.

PSO5 – To understand the basic concepts of Social Psychology.

PSO6 – To develop the psychological skills in employability areas.

PSO7-Understand theoretical and practical aspects of Economics and Geography

PSO8- Evaluate Economic behavior inconsonance with Geographical factors

PSO9- Suggest the policy makers about desirable changes to be made in Micro and MacroEconomic issues based on geographical factors.

### **B.A.(Economics-Psychology (MOOCs)- Mass Communication& Journalism (MOOCs))**

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PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

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PSO8- The students will catering to the required skills related to report writing, editing, communications, news stories, advertising, RJs, News anchoring.

PSO9- To apply knowledge in Economic reporting

### **B.A. ( Economics-Psychology(MOOCs)- Sociology (MOOCs)**

PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

PSO3 – To analyse macro-economic policies including fiscal and monetary policies of India.

PSO4 –To provide the student a basic understanding of the psychology of human behaviour.

PSO5 – To understand the basic concepts of Social Psychology.

PSO6 – To develop the psychological skills in employability areas.

PSO7- Understand the various sociological concepts and basic theories

PSO-8Understand the ideas inculcated in western and Indian sociological thoughts

PSO-9Understand the praxis of sociological thoughts

### **B.A.( History –Economics-Computer Applications)**

PSO1- To understand Ancient and Medieval India and World History.

PSO2- To understand the Modern Indian and Modern World History

PSO3- To develop critical insights for taking up historical studies

PSO4 –To know the key changes in Indian and Global Economies.

PSO5 – To know the Economic growth trends of Indian and World Economies.

PSO6 – To analyse macro-economic policies including fiscal and monetary policies of India.

PSO7- Ability to pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to computer science.

PSO8-Comprehend, explore and build up computer programs in the areas allied to Algorithms, System Software, Multimedia, Web Design and Big Data Analytics for efficient design of computer-based systems of varying complexity.

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PSO9- To apply knowledge in reporting History and Economic Communication

**B.A. (History –Economics-Political Science)**

PSO1- To understand Ancient and Medieval India and World History.

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PSO3- To develop critical insights for taking up historical studies

PSO4 –To know the key changes in Indian and Global Economies.

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PSO1- To understand Ancient and Medieval India and World History.

PSO2- To understand the Modern Indian and Modern World History

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PSO4- Understand the background of our religion, customs, institutions and so on.

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### **B.A. (History- Political science- Sociology (MOOCs))**

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PSO2- To understand the Modern Indian and Modern World History

PSO3- To develop critical insights for taking up historical studies

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### **B.A. (History -Psychology (MOOCs) - Geography (MOOCs))**

PSO1- To understand Ancient and Medieval India and World History.

PSO2- To understand the Modern Indian and Modern World History

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PSO9- Suggest the policy makers about desirable changes to be made in Micro and MacroEconomic issues based on geographical factors.

### **B.A. Economics (Honors)**

PSO1: To obtain the comprehensive knowledge and understanding on the basic concepts and theories of Economics

PSO2: To achieve the capacity to analyse and evaluate the current events from economic perspective.

PSO3: Expand skills in practical application of economic theory.

PSO4: Possess an ability to offer alternative solution on policy issues.

PSO5: Demonstrate the ability to analyse, interpret and draw valid conclusions from quantitative and qualitative aspects.

PSO6: Communicate effectively on specific economic issues and present complex information in a clear and concise manner.

### **B.A. Political Sciences (Honors)**

PSO1: To develop comprehensive understanding of various political theories and to analyse and critically evaluate their relevance in the present context.

PSO2: To understand political systems and, institutions and processes at the National & International levels.

PSO3: To develop effective written and oral communication skills this enables to articulate complex political ideas and arguments clearly and convincingly.

PSO4: Develops the critical thinking skills to analyse complex political issues, identify problems and proposes solutions.

PSO5: To develop research and analytical skills.

### **B.COM (Computer Applications)**

PSO1- To understand the nature, scope and concepts of Accounting, Business Operations and Management

PSO2 -To understand to enable the students to understand to concepts of computer software and its application in business operation

PSO3 - To equip the students with business Analysis and Ecommerce Skills

### **B.COM (Taxation)**

PSO1- File income tax return and compute the tax liability of individuals

PSO2- To develop proficiency in the management of an organization

PSO3- Attain skills in conducting in Business transaction in online

## **BBA (Bachelor of Business Administration)**

PSO1- Ability to define analyse the solutions for different business problems and using logical reasoning patterns for evaluating information, materials and data for practical implementation

PSO2-Provides verbal, reasoning, data interpretation, Quantitative and communication skill to solve specific business problems and decision making

PSO3- Apply ethical principles and commitment towards professional ethics and responsibility

## **B.COM (Business Analytics)**

PSO1- To understand the nature, scope and concepts of Accounting, Business operations and Management

PSO2 -To enable the students to understand to concepts of computersoftware and its application in business operation

PSO3 -To equip the students with business Analysis and E-commerce Skills.

## **B.Sc. Life Sciences (Botany- chemistry-Applied Nutrition)**

PSO1-Find jobs at, food products, life oriented material industries, etc.

PSO2-Understand ecological interconnectedness of life

PSO3- Analyse the avenues and remedies for burning environmental issues

PSO4-The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

PSO5-Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO6- Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

PSO7- Gain in depth knowledge on nutritional basics

PSO8- Understand fundamentals of nutritional biochemistry in relation to health and disease.

PSO9- Utilize basic nutrition knowledge and the dietary guidelines for making food choices that will promote optimal health.

### **B.Sc. Life Sciences (Botany-Chemistry-Biotechnology)**

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PSO7-Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.

PSO8-Acquire knowledge in domain of biotechnology enabling their applications in industry and research.

PSO9-Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology

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PSO7- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO8- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

PSO9-Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

## **B.Sc. Life Sciences (Botany-Psychology (MOOCs)-Computer science)**

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PSO4 –To provide the student a basic understanding of the psychology of human behaviour.

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### **B.Sc. Life Sciences (Botany-Zoology –Applied Nutrition)**

PSO1-Find jobs at, food products, life oriented material industries,

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PSO3- Analyse the avenues and remedies for burning environmental issues

PSO4- Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7- Gain in depth knowledge on nutritional basics

PSO8- Understand fundamentals of nutritional biochemistry in relation to health and disease.

PSO9-Utilize basic nutrition knowledge and the dietary guidelines for making food choices that will promote optimal health.

### **B.Sc. Life Sciences (Botany-Zoology –Biotechnology)**

PSO1-Find jobs at, food products, life oriented material industries, etc.

PSO2-Understand ecological interconnectedness of life

PSO3- Analyse the avenues and remedies for burning environmental issues

PSO4- Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

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PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7- Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.

PSO8- Acquire knowledge in domain of biotechnology enabling their applications in industry and research.

PSO9- Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology.

### **B.Sc. Life Sciences (Botany-Zoology –Chemistry)**

PSO1-Find jobs at, food products, life oriented material industries, etc.

PSO2-Understand ecological interconnectedness of life

PSO3- Analyse the avenues and remedies for burning environmental issues

PSO4- Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7-The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

PSO8-Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO9- Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

### **B.Sc. Life Sciences (Botany-Zoology –Computer science)**

PSO1-Find jobs at, food products, life oriented material industries, etc.

PSO2-Understand ecological interconnectedness of life

PSO3- Analyse the avenues and remedies for burning environmental issues

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PSO7- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO8- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

PSO9-Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

### **B.Sc. Life Sciences (Botany-Zoology- Psychology (MOOCs))**

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PSO2-Understand ecological interconnectedness of life

PSO3- Analyse the avenues and remedies for burning environmental issues

PSO4- Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

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PSO8 – To understand the basic concepts of Social Psychology.

PSO9 – To develop the psychological skills in employability areas.

### **B.Sc. Life Sciences (Microbiology-Chemistry-Applied Nutrition)**

PSO1- Can understand distribution, morphology and physiology of microorganisms

PSO2- Acquire skills in aseptic procedures, isolation and identification.

PSO3- Can understand concepts of immunology, virology, Microbial diversity and DNA Technology

PSO4- The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

PSO5- Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO6- Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

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PSO7- Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.

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PSO7- Gain in depth knowledge on nutritional basics

PSO8 - Understand fundamentals of nutritional biochemistry in relation to health and disease.

PSO9- Utilize basic nutrition knowledge and the dietary guidelines for making food choices that will promote optimal health

### **B.Sc. Life Sciences (Microbiology-Zoology –Biotechnology)**

PSO1- Can understand distribution, morphology and physiology of microorganisms

PSO2- Acquire skills in aseptic procedures, isolation and identification.

PSO3- Can understand concepts of immunology, virology, Microbial diversity and DNA Technology

PSO4- Demonstrated a broad understood of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7- Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.

PSO8- Acquire knowledge in domain of biotechnology enabling their applications in industry and research.

PSO9- Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology

### **B.Sc. Life Sciences (Microbiology-Zoology–Chemistry)**

PSO1- Can understand distribution, morphology and physiology of microorganisms

PSO2- Acquire skills in aseptic procedures, isolation and identification.

PSO3- Can understand concepts of immunology, virology, Microbial diversity and DNA Technology

PSO4- Demonstrated a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7- The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

PSO8- Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO9- Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

### **B.Sc. Life Sciences (Microbiology-Zoology- Psychology (MOOCs))**

PSO1- Can understand distribution, morphology and physiology of microorganisms

PSO2- Acquire skills in aseptic procedures, isolation and identification.

PSO3- Can understand concepts of immunology, virology, Microbial diversity and DNA Technology

PSO4- Demonstrated a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO5- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms,

populations, and species) for the major groups of animals.

PSO6- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

PSO7 – To provide the student a basic understanding of the psychology of human behaviour.

PSO8 – To understand the basic concepts of Social Psychology.

PSO9 – To develop the psychological skills in employability areas.

### **B.Sc. Life Sciences (Zoology-Chemistry-Applied Nutrition)**

PSO1- Demonstrated a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO2- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO3- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

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PSO7- Gain in depth knowledge on nutritional basics

PSO8 - Understand fundamentals of nutritional biochemistry in relation to health and disease.

PSO9- Utilize basic nutrition knowledge and the dietary guidelines for making food choices that will promote optimal health

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PSO8- Acquire knowledge in domain of biotechnology enabling their applications in industry and research.

PSO9- Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology

## **B.Sc. Life Sciences (Zoology- Chemistry-Computer Science)**

PSO1- Demonstrated a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO2- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

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PSO7- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO8- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

PSO9-Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

### **B.Sc. Life Sciences (Zoology-Psychology (MOOCs)-Applied Nutrition)**

PSO1- Demonstrated a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.

PSO2- Recognized the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) for the major groups of animals.

PSO3- Characterized the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit.

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PSO5 – To understand the basic concepts of Social Psychology.

PSO6 – To develop the psychological skills in employability areas.

PSO7- Gain in depth knowledge on nutritional basics

PSO8 - Understand fundamentals of nutritional biochemistry in relation to health and disease.

PSO9- Utilize basic nutrition knowledge and the dietary guidelines for making food choices that will promote optimal health

### **B.Sc life sciences ( Microbiology-Chemistry-Genetics)**

PSO1- Can understand distribution, morphology and physiology of microorganisms

PSO2- Acquire skills in aseptic procedures, isolation and identification.

PSO3- Can understand concepts of immunology, virology, Microbial diversity and DNA Technology

PSO4- The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and subatomic particles.

PSO5 - Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO6 - Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

PSO7 - Understand the basics of genetic inheritance

PSO8 – Learn all about DNA and its manipulation

PSO9 – Apply DNA technology in various fields like diagnosis of diseases, improve crop quality and livestock

### **B.Sc life Sciences (Zoology-Chemistry-Genetics)**

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PSO7 - Understand the basics of genetic inheritance

PSO8 – Learn all about DNA and its manipulation

PSO9 – Apply DNA technology in various fields like diagnosis of diseases, improve crop quality and livestock

### **B.Sc. Physical Sciences (Mathematics –Chemistry-Computer Science )**

PSO1- Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and validity of the results.

PSO2- Propose new, mathematical questions and suggest statistical analysis with appropriate software packages and /or computer programming to find solutions to these questions.

PSO3- Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate the highest standards of ethical issues in mathematics.

PSO4- The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

PSO5- Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

PSO6- Know the fundamental principles of organic/Inorganic /Physical /General chemistry and predict applications of all chemical reactions.

PSO7- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO8- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

PSO9-Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

### **B.Sc. Physical Sciences (Mathematics-Economics-Statistics)**

PSO1- Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and validity of the results.

PSO2- Propose new, mathematical questions and suggest statistical analysis with appropriate software packages and /or computer programming to find solutions to these questions.

PSO3- Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate the highest standards of ethical issues in mathematics

PSO4 – To know the key changes in Indian and Global Economies.

PSO5 – To know the Economic growth trends of Indian and World Economies.

PSO6 – To analyse macro-economic policies including fiscal and monetary policies of India.

PSO7- Statistics is the language of the uncertainties riddled modern information age. This program is a compact combination of detailed courses of Statistics and Operations research to complement and offer diversification after the completion of program.

PSO8- The thrust of the program is to provide a platform for pursuing higher studies leading to post-graduate or doctorate degrees. Along with this students are equipped with skill enhancement courses like Research methodology, Statistical packages and R language.

PSO9-This program offers a range of traditional avenues in academics, Govt. Service, IAS, Indian Statistical/ Economic Services, Industries, Commerce, Investment Banking, Banks and Insurance Sectors, CSO and NSSO, Research Personnel/Investigator in Govt. organizations such as NCAER, IAMR, ICMR, Statistical and Economic Bureau & various PSUs., Market Research, Actuarial Sciences, Biostatistics, Demography etc.

### **B.Sc. Physical Sciences (Mathematics- Physics-Statistics)**

PSO1- Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and validity of the results.

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PSO3- Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate the highest standards of ethical issues in mathematics

PSO4-The graduates of the program will become proficient in the principles and practices of computer science, mathematics, statistics and science, enabling them

to solve a wide range of computing related problems.

PSO5- To enable the students with innovative applications of engineering knowledge and programming skills to spearhead the progress of society in the information age.

PSO6- To mould the students into competent, successful, and practicing engineers in their career and/or in pursuing their higher studies through the spirit of innovation and entrepreneurship.

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PSO7- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

PSO8- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

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### **B.Sc. Physical Sciences (Mathematics-statistics-Data Science)**

PSO1- Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and validity of the results.

PSO2- Propose new, mathematical questions and suggest statistical analysis with appropriate software packages and /or computer programming to find solutions to these questions.

PSO3- Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate the highest standards of ethical issues in mathematics

PSO4- Statistics is the language of the uncertainties riddled modern information age. This program is a compact combination of detailed courses of Statistics and Operations research to complement and offer diversification after the completion of program.

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PSO7-Students will obtain the fundamental and technical concepts.

PSO8-Students will apply design and development principles in the construction of software engineering and systems.

PSO9- Acquire ability to use current techniques, skills and tools for programming practically.

### **B.Sc. Physical Sciences (Economics-Statistics-Computer Science)**

PSO1 – To know the key changes in Indian and Global Economies.

PSO2 – To know the Economic growth trends of Indian and World Economies.

PSO3 – To analyse macro-economic policies including fiscal and monetary policies of India.

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