PROGRAMME SPECIFIC OUTCOMES

PHYSICAL SCIENCES

Mathematics Economics Political Science	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
	PSO2	Understand the economic conditions of the nation and critically examine in comparison with the other nations. Will understand the important sectors of economy like Agricultural Sector, Industry Sector and Service Sector etc and analyze the reasons for income inequalities, poverty and unemployment. Will be able to critically evaluate the propose ideas for sustainable utilization of environmental and economic resources
	PSO3	Understand the political theories related to national, international politics and public policy formulation, analyze state centre relations; Will be able to discuss major theories and concepts of political science and its subfields; Develop critical thinking and inculcate research skills; Develop well-articulated presentation skills on the constitutional rights, duties and directive principles, electoral system, parliamentary proceedings etc.,
	PSO4	Hone their research skills, making and testing of hypothesis, learning about collection, organization, tabulation, analysis of data through data sampling techniques, random interviews, questionnaires and participate in such research conducted by NGOs, Think tanks, Media, or Academic Institutions, Understand the Inter-disciplinary linkages and connections with which students will be able to understand, differentiate the prudent and profligate ways of resource use, learning the art of prioritizing environment over economy and move towards sustainable living.
Mathematics Economics Statistics	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
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	PSO3	Agricultural Sector, Industry Sector and Service Sector etc and analyze the reasons for income inequalities, poverty and unemployment. Will be able to critically evaluate the propose ideas for sustainable utilization of environmental and economic resources
		Understand the basic concepts of data collection designs and tools of descriptive statistics, knowledge of data analysis, get equipped with the knowledge on computational techniques; understand the use of statistical methods in areas like agriculture, business, finance etc, able to formulate new problems and identifying solutions for real time problems, areas of research and get prepared for higher education
	PSO4	Hone their research skills, making and testing of hypothesis, learning about collection, organization, tabulation, analysis of data through data sampling techniques, random interviews, questionnaires and participate in such research conducted by NGOs, Think tanks, Media, or Academic Institutions, Understand the Inter-disciplinary linkages and connections with which students will be able to understand, differentiate the prudent and profligate ways of resource use, learning the art of prioritizing environment over economy and move towards sustainable living.
Mathematics Physics Chemistry	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
	PSO2	Understand the basic concepts of methodology of science and the fundamentals of mechanics, properties of matter and thermodynamics, Understand the theoretical basics of quantum mechanics, spectroscopy , electromagnetism, Optics, Nuclear Physics, Solid state Physics, statistical Physics, low temperature physics and electronics in designing of analog and digital circuits, Craft a foundation for higher learning, be initiated into the Basics of research, Attain skills of digital technology application,
	PSO3	Gain the knowledge of Chemistry through theory and practical: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Make aware and handle the sophisticated instruments/equipment
	PSO4	Will be able to perform short research projects, pursue higher education in any of the courses, opt for bachelors in education, with value added skills acquired in the program will be able to take up a suitable position industry

Mathematics Physics Computer Science	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.	
	PSO2	Understand the basic concepts of methodology of science and the fundamentals of mechanics, properties of matter and thermodynamics, Understand the theoretical basics of quantum mechanics, spectroscopy , electromagnetism, Optics, Nuclear Physics, Solid state Physics, statistical Physics, low temperature physics and electronics in designing of analog and digital circuits, Craft a foundation for higher learning, be initiated into the Basics of research, Attain skills of digital technology application	
	PSO3	Understand the basic concepts and insight into main theories , aware of the latest knowledge in the relevant field, can apply the basic elements of information technology, understand the social, legal, ethical, and cultural issues inherent in the discipline of computing, develop knowledge about Software development fundamentals, including programming, data structures, algorithms and complexity, operating systems, networking and communication, parallel and distributed computation and security	
	PSO4	Will be able to perform short research projects, pursue higher education in any of the courses, serve as programmers or software engineers with sound knowledge of practical and theoretical concepts, work as hardware designers/ engineers with the knowledge of networking concepts, work as system engineers and system integrators, serve as system administrators with thorough knowledge of DBMS.	
Mathematics Physics Statistics	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.	
	PSO2	Understand the basic concepts of methodology of science and the fundamentals of mechanics, properties of matter and thermodynamics, Understand the theoritical basics of quantum mechanics, spectroscopy , electromagnetism, Optics, Nuclear Physics, Solid state Physics, statistical Physics, low temperature physics and electronics in designing of analog and digital circuits, Craft a foundation for higher learning, be initiated into the Basics of research, Attain skills of digital technology application,	
	PSO3	Understand the basic concepts of data collection designs and tools of descriptive statistics, knowledge of data analysis, get equipped with the knowledge on	

	PSO4	computational techniques; understand the use of statistical methods in areas like agriculture, business, finance etc, able to formulate new problems and identifying solutions for real time problems, areas of research and get prepared for higher education Will be able to perform short research projects, pursue higher education in any of the courses, opt for bachelors in education, with value added skills acquired in the program will be able to take up a suitable position in the industry
Mathematics Political Science Computer Applications	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
	PSO2	Understand the political theories related to national, international politics and public policy formulation, analyze state centre relations; Will be able to discuss major theories and concepts of political science and its subfields; Develop critical thinking and inculcate research skills; Develop well-articulated presentation skills on the constitutional rights, duties and directive principles, electoral system, parliamentary proceedings etc.,
	PSO3	Understand the basic concepts and insight into main theories , aware of the latest knowledge in the relevant field, can apply the basic elements of information technology, understand the social, legal, ethical, and cultural issues inherent in the discipline of computing, develop knowledge about Software development fundamentals, including programming, data structures, algorithms and complexity, operating systems, networking and communication, parallel and distributed computation and security
	PSO4	Acquire knowledge of various components of hardware and system software, identify and illustrate desktop, network and server environments, able to apply networking concepts to build efficient networks, Able to employ cloud concepts to illustrate cloud computing solutions, have knowledge on basic and advanced elements of information security to solve problems and foresee threats, will be competent in object oriented programming languages, can work as a team leader/team member

Mathematics Political Science Geography(MOOCs)	PSO1	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.	
	PSO2	Understand the political theories related to national, international politics and public policy formulation, analyze state centre relations; Will be able to discuss major theories and concepts of political science and its subfields; Develop critical thinking and inculcate research skills; Develop well-articulated presentation skills on the constitutional rights, duties and directive principles, electoral system, parliamentary proceedings etc.,	
	PSO3	Understand theoretical and practical aspects of Geography, evaluate economic behavior inconsonance with geographical factors, gain ability to understand the socio-economic problems in geographical indicators, able to offer palatable solutions for socio-economic and geographical challenges, attain proficiency to analyze the economic decision of government and non-govt. entities that correlate with geographical factors, gain requisite knowledge to evaluate land use pattern and demographical profile, apply GIS for understanding market situation, transport problem change in weather condition, cropping pattern, and natural calamities and so on	
	PSO4	Will be able to perform short research projects, pursue higher education in any of the courses, serve as programmers or software engineers with sound knowledge of practical and theoretical concepts, work as hardware designers/ engineers with the knowledge of networking concepts, work as system engineers and system integrators, serve as system administrators with thorough knowledge of DBMS.	
Mathematics Statistics Computer Science	PSO1	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.	
	PSO2	Understand the basic concepts of data collection designs and tools of descriptive statistics, knowledge of data analysis, get equipped with the knowledge on computational techniques; understand the use of statistical methods in areas like agriculture, business, finance etc, able to formulate new problems and identifying solutions for real time problems, areas of research and get prepared for higher education	
	PSO3	Understand the basic concepts and insight into main theories , aware of the latest knowledge in the relevant field, can apply the basic elements of information	

	PSO4	technology, understand the social, legal, ethical, and cultural issues inherent in the discipline of computing, develop knowledge about Software development fundamentals, including programming, data structures, algorithms and complexity, operating systems, networking and communication, parallel and distributed computation and security Will be able to perform short research projects, pursue higher education in any of the courses, serve as programmers or software engineers with sound knowledge of practical and theoretical concepts, work as hardware designers/ engineers with the knowledge of networking concepts, work as system engineers and system integrators, serve as system administrators with thorough knowledge of DBMS.
Mathematics Statistics Data Science	**PSO1**	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
	PSO2	Understand the basic concepts of data collection designs and tools of descriptive statistics, knowledge of data analysis, get equipped with the knowledge on computational techniques; understand the use of statistical methods in areas like agriculture, business, finance etc, able to formulate new problems and identifying solutions for real time problems, areas of research and get prepared for higher education
	PSO3	Identify the components of a computer and their functions; Understand the concept of networking, LAN, Internet, and working of www, Understand the notion of problem solving using computer by programming, Understand the notion of Software Project and the Process of software development
	PSO4	Will be able to perform short research projects, pursue higher education in any of the courses, serve as programmers or software engineers with sound knowledge of practical and theoretical concepts, work as hardware designers/ engineers with the knowledge of networking concepts, work as system engineers and system integrators, serve as system administrators with thorough knowledge of DBMS.
	PSO1	Understand the basic concepts of Mathematics, get equipped with problem solving skills and should be able to use appropriate formula for arriving at solution, should acquire updated knowledge in mathematical sciences, should have knowledge on the areas of research in the course and get prepared for higher education, able to develop communication skills for better presentation of the knowledge acquired.
	PSO2	Gain the knowledge of Chemistry through theory and practicals: able to explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions; identify chemical formulae

Mathematics **Chemistry** **Computer Science**		and solve numerical problems; use modern chemical tools, models, chem-draw, charts and equipment; know structure-activity relationship; Understand good laboratory practices and safety; Develop research-oriented skills, Make aware and handle the sophisticated instruments/equipment
	PSO3	Understand the basic concepts and insight into main theories, aware of the latest knowledge in the relevant field, can apply the basic elements of information technology, understand the social, legal, ethical, and cultural issues inherent in the discipline of computing, develop knowledge about Software development fundamentals, including programming, data structures, algorithms and complexity, operating systems, networking and communication, parallel and distributed computation and security
	PSO4	Will be able to perform short research projects, pursue higher education in any of the courses, serve as programmers or software engineers with sound knowledge of practical and theoretical concepts, work as hardware designers/ engineers with the knowledge of networking concepts, work as system engineers and system integrators, serve as system administrators with thorough knowledge of DBMS.