DEPARTMENT OF PHYSICS						
Course Specific Outcome						
Semester	Paper /Course	Name of the Paper/Corse	Course Outcome			
Semester-1	CC-1	Mathematical physics-I	Mathematics is the language of physics. To gain a deep understanding of the physical world through mathematics and develop skill in mathematical modelling, problem solving and critical thinking.			
	CC-2	Mechanics	It strengthens quantitative reasoning and problem solving skills that are valuable in areas beyond physics. Gain the knowledge that why the world works the way it does.			
	GE-I-1	Mechanics, Oscillation and electromagnetism	Through this syllabus student gain a brief knowledge about whole of the topic which will increase the skill in their honours subject. Also increase the mathematical skill of a student through physics.			
Semester-2	CC-3	Electricity and magnetism	To increase deep understanding about physics and the use of Coulomb's law and Gauss' law for the electrostatic force. the relationship between electrostatic field and electrostatic potential. the use of the Lorentz force law for the magnetic force.			
	CC-4	OPTICS	Introduction to the discipline of optics and its role in the modern society. The student will get knowledge in the geometrical approximation.			
	GE-I-2	Optics, atomic physics, quantum mechanics & nuclear physics	Through this syllabus student gain a brief knowledge about whole of the topic which will increase the skill in their Honours subject			
Semester-3	CC-5	Mathematical physics-II	Mathematics gives physics the tools to explain what scientists observe in the physical world. To develop skill in mathematical modelling, problem solving and critical thinking.			
	CC-6	Thermal Physics	To know various ancient cycles of heat. This is also reason behind the invention of steam engine, rotors and shipments.			
	CC-7	Analog system & application	Deep understanding the working of electronics in details and how communication process is achieved via electronics devices.			
	SEC-1	Renewable and non- renewable energy	To know about the growth of the economy. This course envisages the new and renewable source of energy, available in nature and to expose the students on sources of energy crisis.			

			To gain a deep understanding of the physical
			world and develop skill in mathematical
			modelling, problem solving and critical
	CC-8	Mathematical physics-III	thinking.
			To gain knowledge of fundamental concepts
			in modern physics including special relativity
	GG 0	Elements of modern	and quantum mechanics and will be able to
	CC-9	physics	apply this knowledge to solve problems.
Semester-4			To understanding about signal transmission
			over a long distance and how network of
			semiconductor devices such as transistors
	~~ 10	Digital system and	perform signal – processing takes.
	CC-10	application	
			To gain knowledge about the distinction
		0	between quantitative and qualitative methods
	SEC-2	Quantitative and qualitative thinking.	of research and Qualitative analysis results in
	SEC-2	quantative unliking.	rich data that gives an in-depth picture. Gain a deep knowledge about the description
			of the physical properties of nature at the scale
			of the physical properties of flature at the scale of atoms and subatomic particles. By know
			quantum mechanics one can know most
		Quantum Mechanics and	successful theories in science and many
	CC-11	its Application	unknown Mystery.
			Gain the knowledge about Arrangements of
			atoms, can explain crystal systems, Diffraction
			and Reciprocal space. One can explain the
			Defines Atomic packing, Crystal, Lattice, Unit
			cell and Translation vectors. Help it in many
Semester-5	CC-12	Solid State Physics	research Methodology.
			It strengthens quantitative reasoning and
			problem-solving skills that are valuable in
	DOE 1	Cl ' lD '	areas beyond physics. Find out why the world
	DSE-1	Classical Dynamics	works the way it does.
			To know how the economic impacts on the
			applications of nuclear physics. Deep knowledge in Nuclear reactions power stars,
			generating energy and forming the chemical
			elements we find in nature. Nuclear Physics
			helps us understand how the heavy elements
		Nuclear and Particle	are formed in the violent explosions of stars.
	DSE-2	physics	-
Semester-6			Increases the possibility of domestic exposure
			to Magnetic fields. How to use
			electromagnetic fields used for the treatment of
			different disease. The study of EM is essential
			to understanding the properties of light, its
	CC-13	Electromagnetic theory	propagation through tissue, scattering, and
	CC-13	Electromagnetic theory	changes in the state of polarization. To gain knowledge about probability theory
			and the microscopic physical laws. It can be
			used to explain the thermodynamic behaviour
	CC-14	Statistical Mechanics	of large systems.
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DSE-3	Nano material and Application	Students should have the skills and knowledge to Explain the fundamental principles of nanotechnology and their application to biomedical engineering. Gain knowledge in the advance technology in field of nanotechnology.
DSE-4	Project paper	Through this paper students get motivated towards research methodology. To make them understand the concepts of Project Management for planning to execution of projects.