

Lecture Plan							
Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa							
Name of Faculty: Vidhita Parab				Subject: Physics			
Paper code: PHY131			Program: F.Y.B.Sc			Division:	
Academic year: 2024-25			Semester: I			Total Lectures: 45	
Course Objectives: To understand history of physics and to study more about the scientist who have the contribution in all the fields of physics.							
Course Outcome: Student will be able to 1. Understand that the development of Physics was incremental. 2. Realise that a few great men and women influenced the development of physics. 3. Analyse different laws and theories of physics and their impact on modern science. 4. Understand that results that could not be explained often led to the introduction of radical new physics.							
Student Learning Outcome: Able to understand history of physics and will learn about all the scientists.							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books

June- july	28-06-2024	06-07-2024	4	Unit 1: An introduction to the Science of Galileo			1. I. Glynn, Elegance in Science, Oxford University Press 2010
				Unit 1: An introduction to the Science of Galileo			
				Unit 1: An introduction to the Science of Galileo			
				Unit 1: An introduction to the Science of Galileo			
	08-07-2024	13-07-2024	3	Unit 1: An introduction to the Science of Galileo			2. J. Gribbin, Science a History, Penguin, 2009.
				Unit 2: Halley, Kepler and Newton and their Physics			
				Unit 2: Halley, Kepler and Newton and their Physics			
	15-07-2024	20-07-2024	3	Unit 2: Halley, Kepler and Newton and their Physics			3. J. Gribbin and M. Ribbin, Out of the Shadow of a Giant, William Collins, 2018.
				Unit 2: Halley, Kepler and Newton and their Physics			
				Unit 2: Halley, Kepler and Newton and their Physics			
				Unit 2: Halley, Kepler and Newton and their Physics			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
				Unit 2: Halley, Kepler and Newton and their Physics			1. I. Glynn, Elegance in Science, Oxford

	22-07-2024	27-07-2024		Unit 2: Halley, Kepler and Newton and their Physics			University Press 2010 2. J. Gribbin, Science a History, Penguin, 2009. 3. J. Gribbin and M. Ribbin, Out of the Shadow of a Giant, William Collins, 2018.
				Unit 3: Isaac Newton his Mechanics and his Gravity			
			3	Unit 3: Isaac Newton his Mechanics and his Gravity			
August	29-07-2024	03-08-2024		Unit 3: Isaac Newton his Mechanics and his Gravity			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
				Unit 3: Isaac Newton his Mechanics and his Gravity			
			3	Unit 3: Isaac Newton his Mechanics and his Gravity			
	05-08-2024	10-08-2024		Unit 3: Isaac Newton his Mechanics and his Gravity			1. I. Glynn, Elegance in Science, Oxford University Press 2010 2. J. Gribbin, Science a History, Penguin, 2009. 3. J. Gribbin and M. Ribbin, Out of
				Unit 4: Boltzmann, Maxwell and other giants of Classical Physics			
			3	Unit 4: Boltzmann, Maxwell and other giants of Classical Physics			
	12-08-2024	17-08-2024	3	Unit 4: Boltzmann, Maxwell and other giants of Classical			

				Physics			the Shadow of a Giant, William Collins, 2018.
				Unit 4: Boltzmann, Maxwell and other giants of Classical Physics			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
				Unit 4: Boltzmann, Maxwell and other giants of Classical Physics			
	19-08-2024	24-08-2024		Unit 4: Boltzmann, Maxwell and other giants of Classical Physics			
				Unit 5: Coulomb, Faraday, Maxwell: Electricity and Magnetism			1. I. Glynn, Elegance in Science, Oxford University Press 2010
			3	Unit 5: Coulomb, Faraday, Maxwell: Electricity and Magnetism			2. J. Gribbin, Science a History, Penguin, 2009.
	26-08-2024	31-08-2024		Unit 5: Coulomb, Faraday, Maxwell: Electricity and Magnetism			3. J. Gribbin and M. Ribbin, Out of the Shadow of a Giant, William Collins, 2018.
				Unit 5: Coulomb, Faraday, Maxwell: Electricity and Magnetism			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
			3	Unit 5: Coulomb, Faraday, Maxwell: Electricity and			

				Magnetism			
September	02-09-2024	05-09-2024		Unit 5: Coulomb, Faraday, Maxwell: Electricity and Magnetism			
	13-09-2024	14-09-2024		Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			
				Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			
	16-09-2024	21-09-2024	2	Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			1. I. Glynn, Elegance in Science, Oxford University Press 2010
			Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			2. J. Gribbin, Science a History, Penguin, 2009.	
			3	Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			3. J. Gribbin and M. Ribbin, Out of the Shadow of a Giant, William Collins, 2018.
	23-09-2024	28-09-2024		Unit 6: Atomic theory, the periodic table, Mendeleev, Dalton, and Lavoisier			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
			3	Unit 7: The wave-particle duality of light, Max Planck, Neils			

			Bohr, Albert Einstein and Quantum Physics			
			Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics			1. I. Glynn, Elegance in Science, Oxford University Press 2010
October	30-09-2024	05-10-2024	Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics			2. J. Gribbin, Science a History, Penguin, 2009.
			Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics			3. J. Gribbin and M. Ribbin, Out of the Shadow of a Giant, William Collins, 2018.
			Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics			4. M. Mosley. and J. Lynch, The Story of Science, Octopus Publishers, 2010.
	07-10-2024	12-10-2024	Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics	3		1. I. Glynn, Elegance in Science, Oxford University Press 2010
			Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics	3		2. J. Gribbin, Science a History, Penguin, 2009.
			Unit 7: The wave-particle duality of light, Max Planck, Neils Bohr, Albert Einstein and Quantum Physics			3. J. Gribbin and M. Ribbin, Out of

