

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**COURSE PLAN (June - November 2026)**

Department : PHYSICS
Name/s of the Faculty : Dr. D. Anceila
Course Title : PHYSICS FOR MATHEMATICS I PRACTICAL
Course Code : 25PH/ME/P111
Shift : I

COURSE OUTCOMES (COs)

COs	Description						CL
CO1	Recall and relate the theoretical concepts of the experiments						K1
CO2	Explain the experimental procedure						K2
CO3	Apply the theoretical knowledge of physics experiments to obtain the necessary data						K3
CO4	Analyse and Interpret the quantitative results utilizing mathematical and graphical verification						K4
CO5	Develop analytic ability from the technical knowledge gained through hands on training						K5
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods

Jun 22, 2026 (Day Order 6)							
Jun 23 – July 1, 2026 (Day Order 1- 6)		1.Determination of ‘g’ - Compound Pendulum. 2.Young’s Modulus ‘E’ by Non-Uniform Bending- Pin and Microscope 3.Young’s Modulus ‘E’ by Uniform Bending- Scale and Telescope 4. Rigidity Modulus ‘G’ by Torsional pendulum (Moment of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton’s Law of Cooling using two liquids.	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation.

July 2 – July 8, 2026 (Day Order 1- 6)		1. Determination of ‘g’- Compound Pendulum. 2.Young’s Modulus ‘E’ by Non-Uniform Bending- Pin and Microscope 3.Young’s Modulus ‘E’ by Uniform Bending- Scale and Telescope 4.Rigidity Modulus ‘G’ by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton’s Law of Cooling using two liquids	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation
July 9 – 16, 2026 (Day Order 1- 6)		1.Determination of ‘g’- Compound Pendulum. 2.Young’s Modulus ‘E’	1-5	2	1-5	Teaching and demonstration of	Questioning and result

		by Non-Uniform Bending- Pin and Microscope 3.Young's Modulus 'E' by Uniform Bending-Scale and Telescope 4. Rigidity Modulus 'G' by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton's Law of Cooling using two liquids				experiments	valuation
July 17 – 24, 2026 (Day Order 1- 6)		1.Determination of 'g'- Compound Pendulum. 2.Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope					

		3.Young's Modulus 'E' by Uniform Bending- Scale and Telescope 4. Rigidity Modulus 'G' by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton's Law of Cooling using two liquids					
July 25 – 28, 2026 (Day Order 1- 3)		1.Determination of 'g'- Compound Pendulum. 2.Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3.Young's Modulus 'E' by Uniform Bending- Scale and Telescope	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation.

		4. Rigidity Modulus 'G' by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton's Law of Cooling using two liquids					
July 29 – Aug 3, 2026	C.A. Test - I						
Aug 4 - 6, 2026 (Day Order 4 - 6)							
Aug 7 – 14, 2026 (Day Order 1- 6)		1.Determination of 'g'- Compound Pendulum. 2.Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3.Young's Modulus 'E'	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation.

		by Uniform Bending-Scale and Telescope 4. Rigidity Modulus 'G' by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton's Law of Cooling using two liquids					
Aug 17 - 24, 2026 (Day Order 1- 6)		1.Determination of 'g'- Compound Pendulum. 2.Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3.Young's Modulus 'E' by Uniform Bending-Scale and Telescope 4. Rigidity Modulus 'G'	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation.

		by Torsional pendulum (Moment Of Inertia to be assumed) 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton’s Law of Cooling using two liquids					
Aug 25 – Sep 2, 2026 (Day Order 1- 6)		1.Determination of ‘g’ - Compound Pendulum. 2.Young’s Modulus ‘E’ by Non-Uniform Bending- Pin and Microscope 3.Young’s Modulus ‘E’ by Uniform Bending- Scale and Telescope 4. Rigidity Modulus ‘G’ by Torsional pendulum (Moment Of Inertia to be assumed)	1-5	2	1-5	Teaching and demonstration of experiments	Questioning and result valuation.

		5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7.Verification of Series and Parallel connections of resistance and Determination of Specific Resistance -Post Office Box 8. Verification of Law - Newton’s Law of Cooling using two liquids					
Sep 3 – 11, 2026 (Day Order 1- 6)		REVISION					
Sep 15-17, 2026 (Day Order 1 - 3)		REVISION					
Sep 18 –23, 2026	C.A. Test - II						
Sep 24 - 28, 2026 (Day 4 – 6)							
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)		CA Practical TEST-I					
Oct 8 - 14, 2026 (Day Order 1 - 6)		CA Practical TEST-II					

Oct 15 - 21, 2026 (Day Order 1- 4)	REVISION
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