DEPARTMENT OF UG PHYSICS (AIDED)

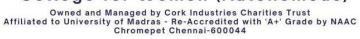
B.Sc. PHYSICS

CHOICE BASED CREDIT SYSTEM (CBCS)

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LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)







CURRICULUM FRAMEWORK 2023–2026 Batch

S.N o	Year/ Semeste r	Part	Course component	t Teaching Hours		Cr edi ts	CIA	ESE	Total
				Theory	Prac				
1	I Year I Semeste	I	Foundation course (Tamil/Hindi/ Sanskrit)	6		3	40	60	100
2	r	II	English	6		3	40	60	100
3		III	Core theory I Properties of Matter	5		3	40	60	100
4		III	Core theory II Thermal Physics	4		3	40	60	100
5	1	III	Core Practical I		3	Exa	m at the	e end of II sem	
6		III	Allied theory I Chemistry for Physics I	4		4	40	60	100
7		III	Allied Practical I Allied Chemistry Practical I		2	Exa	Exam at the end of II sem		
8		IV	Soft skill-Essentials of Language and communication Skills			3	50	-	50
9	I Year II Semeste	I	Foundation course (Tamil/Hindi/ Sanskrit)	6		3	40	60	100
10	r	II	English	6		3	40	60	100
11		III	Core theory III Acoustics & Thermodynamics	5		3	40	60	100
12		III	Core theory IV Mechanics	4		3	40	60	100
13		III	Core Practical I		3	2	40	60	100
14		III	Allied theory II Chemistry for Physics II	4		4	40	60	100
15		III	Allied Practical I Allied Chemistry Practical I		2	2	40	60	100





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16		IV	Soft Skills - Essentials of spoken and presentation skills			3	50	-	50	
17		IV	Value education Environmental studies			2	50	-	50	
			Yoga and wellness			2	50	-	50	
18	II Year III	I	Foundation course (Tamil/Hindi/ Sanskrit)	6		3	40	60	100	
19	Semeste r	II	English	6		3	40	60	100	
20		III	Core theory V Mathematical Physics & Statistical Mechanics	5		4	40	60	100	
21		III	Core theory VI Optics and spectroscopy	4		4	40	60	100	
22		III	Core Practical II		3	Exam	xam at the end of IV Sem			
23		III	Allied theory III Allied Mathematics I	4		5	40	60	100	
24		IV	NON MAJOR ELECTIVE Medical physics	1		2	50	-	50	
25	II Year IV	I	Foundation course (Tamil/Hindi/ Sanskrit)	6		3	40	60	100	
26	Semeste r	II	English	6		3	40	60	100	
27	_	III	Core theory VII Atomic Physics	4		4	40	60	100	
28		III	Core theory VIII Electricity and Magnetism	5		4	40	60	100	





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29		III	Core Practical II		3	2	40	60	100
30		III	Allied theory IV Allied Mathematics II	4		5	40	60	100
31		IV	Non major elective Medical physics	1		2	50	-	50
32	III Year V Semeste	III	Core theory IX Electromagnetism	5		4	40	60	100
33		III	Core theory X Fundamentals Of Nanoscience And Nanotechnology	5		4	40	60	100
34		III	Core theory XI Nuclear Physics	5		4	40	60	100
35		III	Elective Theory I (Blended Learning) Digital Data Processing And Embedded Microcontrollers/Cour	5		5	40	60	100
36		III	Elective Project I		4	5	40	60	100
		III	Core Practical III Genera		2	Exam	at the end	d of IV So	em
		III	Core Practical IV Electronics		2	Exam	at the end	d of IV So	em
		III	Elective Practical I Microprocessor		2	Exam	at the end	d of IV So	em
37		IV	Skill Based Elective Swayam-			3	50	-	50





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			MOOC/NPTEL						
38	38 III Year VI Semeste r	III	Core theory XII Relativity And Quantum Mechanics	6		4	40	60	100
39		III	Core theory XIII Solid State Physics	6		4	40	60	100
40		III	Core theory XIV Integrated Electronics	6		4	40	60	100
41		III	Core Practical III General		3	2	40	60	100
42		III	Core Practical IV Electronics		3	2	40	60	100
43		III	Elective Practical I(Blended Learning) Microprocessor practical/Coursera		3	5	40	60	100
44		IV	Skill Enhancement Coursera			3	50		50
45		V	Extracurricular activity			1			
						140 Cred its			