

**ALAGAPPA UNIVERSITY, KARAIKUDI**  
**NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2023-24)**  
**B.Sc. PHYSICS - PROGRAMME STRUCTURE**

Sem	Part	Course Code	Courses	Title of the Paper	T/P	Cr.	Hrs./ Week	Max. Marks		
								Int.	Ext.	Total
I	I	2311T	T/OL	தமிழ் இலக்கிய வரலாறு I /Other Languages -I	T	3	6	25	75	100
	II	2312E	E	General English - I	T	3	6	25	75	100
	III	23BPH1C1	CC-I	Properties of Matter and Acoustics	T	5	6	25	75	100
		23BPH1P1	CC-II	Practical I Properties of Matter	P	3	3	25	75	100
		-	Generic Elective (Allied)	Mathematics / Chemistry / Electronics / Computer Science	T	3	3	25	75	100
	IV	23BPH1S1	SEC -I	Physics for Everyday Life ( NME )	T	2	2	25	75	100
		23BPH1FC	FC	Introductory Physics	T	2	2	25	75	100
	Total						<b>23</b>	<b>30</b>	<b>200</b>	<b>600</b>
II	I	2321T	T/OL	தமிழ் இலக்கிய வரலாறு II /Other Languages-II	T	3	6	25	75	100
	II	2322E	E	General English - II	T	3	6	25	75	100
	III	23BPH2C1	CC-III	Heat, Thermodynamics and Statistical Physics	T	5	6	25	75	100
		23BPH2P1	CC-IV	Practical-II Heat, Oscillations, Waves and Sound	P	3	3	25	75	100
		--	Generic Elective (Allied)	Mathematics / Chemistry / Electronics / Computer Science	T	3	3	25	75	100
	IV	23BPH2S1	SEC -II	AstroPhysics	T	2	2	25	75	100
		23BPH2S2	SEC-III	Physics of Music	T	2	2	25	75	100
		--		Naan Mudhalvan Course	T	2	-	25	75	100
Total						<b>23</b>	<b>30</b>	<b>200</b>	<b>600</b>	<b>800</b>
III	I	2331T	T/OL	தமிழக வரலாறும் பண்பாடும் / Other Languages-III	T	3	6	25	75	100
	II	2332E	E	General English – III	T	3	6	25	75	100
	III	23BPH3C1	CC-V	Mechanics	T	5	6	25	75	100
		23BPH3P1	CC-VI	Practical-III Electricity	P	3	3	25	75	100
		--	Generic Elective (Allied)	Mathematics / Chemistry / Electronics / Computer Science	T	3	3	25	75	100
	IV	23BPH3S1	SEC-IV	Entrepreneurship	T	2	2	25	75	100
		233AT/ 22BPH3S2	SEC-V	Adipadai Tamil / Home Electrical Installation	T	2	2	25	75	100
		--		Naan Mudhalvan Course	T	2	-	25	75	100
Total						<b>23</b>	<b>30</b>	<b>200</b>	<b>600</b>	<b>800</b>
IV	I	2341T	T/OL	தமிழும் அறிவியலும் /Other Languages -IV	T	3	6	25	75	100
	II	2342E	E	General English – IV	T	3	6	25	75	100

	III	23BPH4C1	CC-VII	Optics and Laser Physics	T	4	5	25	75	100	
		23BPH4P1	CC-VIII	Practical – IV Light	P	3	3	25	75	100	
		--	Generic Elective (Allied)	Mathematics / Chemistry / Electronics / Computer Science	T	3	3	25	75	100	
				Respective Allied Practical	P	2	2	25	75	100	
	IV	23BPH4S1	SEC-VI	Medical Physics	T	2	2	25	75	100	
		234AT/ 23BPH4S2	SEC-VII	Adipadai Tamil / Physics of Medical Instruments	T	2	2	25	75	100	
		23BES4	E.V.S	Environmental Studies	T	2	2	25	75	100	
		--		Naan Mudhalvan Course	T	2	-	25	75	100	
					Total		<b>24</b>	<b>30</b>	<b>225</b>	<b>675</b>	<b>900</b>

V	III	23BPH5C1	CC-IX	Electricity, Magnetism and Electromagnetism	T	4	5	25	75	100
		23BPH5C2	CC-X	Atomic and Nuclear Physics	T	4	5	25	75	100
		23BPH5C3	CC-XI	Analog and Communication Electronics	T	4	4	25	75	100
		23BPH5P1	CC-XII	Practical – V General Physics	P	4	4	25	75	100
		23BPH5E1/ 23BPH5E2/ 23BPH5E3	DSE-I	Communication Systems / Energy Physics / Mathematical Physics	T	3	5	25	75	100
		23BPH5E4/ 23BPH5E5/ 23BPH5E6	DSE-II	Numerical Methods and C Programming / Material Science / Nano Science and Nano Technology	T	3	5	25	75	100
	IV	23BVE5		Value Education	T	2	2	25	75	100
		23BPH5I		Internship / Industrial Visit / Field Visit	-	2	-	25	75	100
		--		Naan Mudhalvan Course	T	2	-	25	75	100
					Total		<b>26</b>	<b>30</b>	<b>200</b>	<b>600</b>
VI	III	23BPH6C1	CC-XIII	Quantum Mechanics and Relativity	T	4	6	25	75	100
		23BPH6C2	CC-XIV	Solid State Physics	T	4	6	25	75	100
		23BPH6P1		Practical – VI Electronics	P	4	6	25	75	100
		23BPH6E1/ 23BPH6E2/ 23BPH6E3	DSE-III	Digital Electronics and Microprocessor 8085/ Digital Photography / Medical Instrumentation	T	3	5	25	75	100
		23BPH6E4/ 23BPH6E5/ 23BPH6PR	DSE-IV	Advanced Mathematical Physics / Laser and Fiber Optics / Project	T	3	5	25	75	100
	IV	--		Extension Activity		1	-	-	-	-
		23BPH6S1		Essential Reasoning and Quantitative Aptitude	T	2	2	25	75	100
		--		Naan Mudhalvan Course		2	-	25	75	100
				Total		<b>21</b>	<b>30</b>	<b>150</b>	<b>450</b>	<b>600</b>
				<b>Grand Total</b>		<b>140</b>	<b>--</b>	<b>1175</b>	<b>3525</b>	<b>4700</b>

- TOL-Tamil/Other Languages,
- E – English
- CC-Core course
- Generic Elective (Allied)
- SEC-Skill Enhancement Course
- FC-Foundation Course
- DSE – Discipline Specific Elective

### **ELECTIVES COURSES (EC)**

1. COMMUNICATION SYSTEMS
2. ENERGY PHYSICS
3. MATHEMATICAL PHYSICS
4. NUMERICAL METHODS AND C PROGRAMMING
5. MATERIALS SCIENCE
6. NANO SCIENCE
7. DIGITAL PHOTOGRAPHY
8. MEDICAL INSTRUMENTATION
9. ADVANCED MATHEMATICAL PHYSICS
10. LASERS AND FIBER OPTICS

### **NON-MAJOR ELECTIVES (NME)**

1. PHYSICS FOR EVERYDAY LIFE
2. ASTROPHYSICS
3. PHYSICS OF MUSIC
4. HOME ELECTRICAL INSTALLATION
5. MEDICAL PHYSICS
6. PHYSICS OF MEDICAL INSTRUMENTS