

# ALAGAPPA UNIVERSITY, KARAİKUDI

NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2017-18)

## B.Sc. PHYSICS – PROGRAMME STRUCTURE

Sem.	Part	Course Code	Title of the Course	Cr.	Hrs./ Week	Marks		Total
						Int.	Ext.	
I	I	711T	Tamil / Other Languages – I	3	6	25	75	100
	II	712E	English – I	3	6	25	75	100
	III	7BPH1C1	Core – I – Properties of matter and Sound	4	5	25	75	100
		7BPH1C2	Core–II– Mechanics and Relativity	4	5	25	75	100
		---	Core – III – General Physics Practical – I	-	2**	--	--	---
			Allied – I (Theory only) (or) Allied – I (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – I	-	2**	--	--	---
	IV	7NME1A/ 7NME1B/ 7NME1C	(1) Non-Major Elective – I (A) தமிழ்மொழியின் அடிப்படைகள்/ (B) இக்கால இலக்கியம் / (C) Communicative English	2	1	25	75	100
			<b>Total (Allied Theory only)</b>	<b>21</b>	<b>30</b>	--	--	<b>600</b>
			<b>Total (Allied Theory cum Practical)</b>	<b>20</b>				<b>575</b>
II	I	721T	Tamil / Other Languages – II	3	6	25	75	100
	II	722E	English – II	3	6	25	75	100
	III	7BPH2P1	Core – III – General Physics Practical – I	4	2	<b>40</b>	<b>60</b>	100
		7BPH2C1	Core – IV – Thermal and Statistical Physics	4	4	25	75	100
		7BPH2C2	Core – V – Electricity, Magnetism and Electromagnetism	4	5	25	75	100
			Allied – II (Theory only) (or) Allied– II (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – I	2	2	20	30	50
	IV	7BES2	Environmental Studies	2	2	25	75	100
		<b>Total (Allied Theory only)</b>	<b>25</b>	<b>30</b>	--	--	<b>700</b>	
		<b>Total (Allied Theory cum Practical)</b>	<b>26</b>				<b>725</b>	
III	I	731T	Tamil /Other Languages – III	3	6	25	75	100
	II	732E	English – III	3	6	25	75	100
	III	7BPH3C1	Core–VI– Optics and Spectroscopy	4	7	25	75	100
		---	Core – VII – General Physics Practical – II	-	3**	--	--	---
			Allied – III (Theory only) (or) Allied–III (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – II	-	2**	--	--	---

	IV	7NME3A/ 7NME3B/ 7NME3C	<b>(1) Non-major Elective – II</b> (A)இலக்கியமும் மொழிப் பயன்பாடும்/ (B) பழந்தமிழ் இலக்கியங்களும்இலக்கியவரலாறும் /(C) Employability Skills	2	1	25	75	100	
		7SBS3A1/ 7SBS3A2/ 7SBS3A3	<b>Skill Based Subjects – I</b>	2	2	25	75	100	
	V	7BEA3	<b>Extension activities</b>	1	--	100	--	100	
<b>Total (Allied Theory only)</b>				<b>20</b>	<b>30</b>	<b>--</b>	<b>--</b>	<b>700</b>	
<b>Total (Allied Theory cum Practical)</b>				<b>19</b>				<b>675</b>	
IV	I	741T	<b>Tamil / other languages – IV</b>	3	6	25	75	100	
	II	742E	<b>English – IV</b>	3	6	25	75	100	
	III	7BPH4P1	<b>Core – VII – General Physics Practical – II</b>	4	3	<b>40</b>	<b>60</b>	100	
		7BPH4C1	<b>Core – VIII – Atomic &amp; Nuclear Physics</b>	4	6	25	75	100	
			<b>Allied – IV(Theory only) (or) Allied –IV(Theory cum Practical)</b>	5 4	5 3	25 15	75 60	100 75	
			<b>Allied Practical - II</b>	2	2	20	30	50	
	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	<b>Skill Based Subjects – II</b>	2	2	25	75	100	
		7BVE4/ 7BMY4/ 7BWS4	<b>Value Education / Manavalakalai Yoga / Women’s Studies</b>	2	2	25	75	100	
	<b>Total (Allied Theory only)</b>				<b>23</b>	<b>30</b>	<b>--</b>	<b>--</b>	<b>700</b>
	<b>Total (Allied Theory cum Practical)</b>				<b>24</b>				<b>725</b>
V	III	7BPH5C1	<b>Core – IX – Analog Electronics</b>	4	5	25	75	100	
		7BPH5C2	<b>Core–X–Computer Programming in C</b>	4	5	25	75	100	
		---	<b>Core–XI– General Physics Practical III</b>		3**	--	--	--	
		---	<b>Core–XII- Electronics Practical IV</b>		3**	--	--	--	
		7BPHE1A/ 7BPHE1B/ 7BPHE1C	<b>Elective–I–A) Mathematical Physics (or) B) Non-Conventional Energy Sources (or) C) Laser Physics and Fibre Optics</b>	5	5	25	75	100	
		7BPHE2A/ 7BPHE2B/ 7BPHE2C	<b>Elective–II– A)Communication Electronics (or) B)Numerical methods and statistics (or) C) Solid State Physics</b>	5	5	25	75	100	
	IV	7SBS5A4/ 7SBS5A5/ 7SBS5A6/ 7SBS5A7	<b>(2) Skill Based Subjects – I</b> <b>(2) Skill Based Subjects – I</b>	2 2	2 2	25 25	75 75	100 100	
		<b>Total</b>				<b>22</b>	<b>30</b>	<b>--</b>	<b>--</b>
	VI	III	7BPH6P1	<b>Core – XI – General Physics Practical III</b>	4	3	<b>40</b>	<b>60</b>	100
			7BPH6P2	<b>Core–XII–Electronics Practical-IV</b>	4	3	<b>40</b>	<b>60</b>	100

		7BPH6C1	<b>Core – XIII</b> – Elements of Theoretical Physics	4	6	25	75	100
		7BPH6C2	<b>Core – XIV</b> – Digital Electronics	4	5	25	75	100
		7BPH6PR	<b>Core XV</b> – Project*	4	4	<b>40</b>	<b>60</b>	100
		7BPHE3A/ 7BPHE3B/ 7BPHE3C	<b>Elective– III– A)</b> Microprocessors <b>(or B)</b> Computer Programming in C++ <b>(or C)</b> Fundamentals of Nano Science	5	5	25	75	100
	IV	7SBS6B4/ 7SBS6B5/ 7SBS6B6/ 7SBS6B7	<b>(2) Skill Based Subjects – II</b>	2	2	25	75	100
			<b>(2) Skill Based Subjects – II</b>	2	2	25	75	100
<b>Total</b>				<b>29</b>	<b>30</b>	--	--	<b>800</b>
<b>Grand Total</b>				<b>140</b>	<b>180</b>	--	--	<b>4100</b>

\* Students are advised to visit Industries, academic institutions as part of the educational tour for project or any theoretical or electronics project.

\*\* University Examinations will be held in the Even Semesters only.