B.Sc. PHYSICS – PROGRAMME STRUCTURE

Sem.	Part	Course Code	Title of the Course	Cr.	Hrs./ Week	Int.	Ext.	Total
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)**	5	5	25	75	100
			Allied – I (Theory cum Practical)	4	3	15	60	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
			Total (Allied Theory only)	21	30	--	--	600
			Total (Allied Theory cum Practical)	20				575
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	**40**	**60**	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	5	25	75	100
				4	3	15	60	75
			Allied Practical – I	2	2	20	30	50

	IV	7BES2	**Environmental Studies**	2	2	25	75	100
			Total (Allied Theory only)	25	30	--	--	700
			Total (Allied Theory cum Practical)	26				725
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	5	25	75	100
				4	3	15	60	75
			Allied Practical – II	-	2**	--	--	---
	IV	7NME3A/ 7NME3B/ 7NME3C	**(1) Non-major Elective – II** (A)இலக்கியமும் மொழிப் பயன்பாடும் (B) பழந்தமிழ் இலக்கியங்களும்இலக்கியவரலாறும் (C) Employability Skills	2	1	25	75	100
		7SBS3A1/ 7SBS3A2/ 7SBS3A3	**Skill Based Subjects – I**	2	2	25	75	100
	V	7BEA3	**Extension activities**	1	--	100	--	100
			Total (Allied Theory only)	20	30	--	--	700
			Total (Allied Theory cum Practical)	19				675
IV	I	741T	**Tamil / other languages – IV**	3	6	25	75	100
	II	742E	**English – IV**	3	6	25	75	100
	III	7BPH4P1	**Core – VII** – General Physics Practical – II	4	3	**40**	**60**	100
		7BPH4C1	**Core – VIII** – Atomic & Nuclear Physics	4	6	25	75	100
			Allied – IV(Theory only) **(or) Allied – IV**(Theory cum Practical)	5	5	25	75	100
				4	3	15	60	75
			Allied Practical - II	2	2	20	30	50

	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	**Skill Based Subjects – II**	2	2	25	75	100
		7BVE4/ 7BMY4/ 7BWS4	**Value Education / Manavalakalai Yoga / Women's Studies**	2	2	25	75	100
			Total (Allied Theory only)	23	30	--	--	700
			Total (Allied Theory cum Practical)	24				725
V	III	7BPH5C1	**Core – IX** – Analog Electronics	4	5	25	75	100
		7BPH5C2	**Core–X**–Computer Programming in C	4	5	25	75	100
		---	**Core–XI**– General Physics Practical III		3**	--	--	--
		---	**Core–XII**- Electronics Practical IV		3**	--	--	--
		7BPHE1A/ 7BPHE1B/ 7BPHE1C	**Elective–I**–A) Mathematical Physics **(or) B)** Non-Conventional Energy Sources **(or) C)** Laser Physics and Fibre Optics	5	5	25	75	100
		7BPHE2A/ 7BPHE2B/ 7BPHE2C	**Elective–II– A)** Communication Electronics **(or)** **B)** Numerical methods and statistics **(or) C)** Solid State Physics	5	5	25	75	100
	IV	7SBS5A4/ 7SBS5A5/ 7SBS5A6/ 7SBS5A7	**(2) Skill Based Subjects – I**	2	2	25	75	100
			(2) Skill Based Subjects – I	2	2	25	75	100
			Total	22	30	--	--	600
VI	III	7BPH6P1	**Core – XI** – General Physics Practical III	4	3	**40**	**60**	100
		7BPH6P2	**Core–XII**–Electronics Practical-IV	4	3	**40**	**60**	100
		7BPH6C1	**Core – XIII** – Elements of Theoretical Physics	4	6	25	75	100
		7BPH6C2	**Core – XIV** – Digital Electronics	4	5	25	75	100
		7BPH6PR	**Core XV** – Project*	4	4	**40**	**60**	100

		7BPHE3A/7BPHE3B/ 7BPHE3C	**Elective– III– A)**Microprocessors **(or) B)** Computer Programming in C++ **(or) C)** Fundamentals of Nano Science	5	5	25	75	100
	IV	7SBS6B4/ 7SBS6B5/ 7SBS6B6/ 7SBS6B7	**(2) Skill Based Subjects – II**	2	2	25	75	100
			(2) Skill Based Subjects – II	2	2	25	75	100
		Total		**29**	**30**	**--**	**--**	**800**
		Grand Total		**140**	**180**	**--**	**--**	**4100**

*   **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.**