

**DEPARTMENT OF PHYSICS**  
**U.G. COURSE PATTERN (2017 - 2020)**

Sem.	Part	Code	Title of the Paper	Hours	Credits
I	I	17GT1GS01/ 17GH1GS01	Tamil – I/ Hindi	5	3
	II	17GE1GSA1/ 17GE1GSB1	English - I	5	3
	III	17PH1MC01	Mechanics and Properties of Matter	5	4
		17PH1MC02	Sound and Energy	3	2
		17PH1CP01	Major Practical - I	3	-
	IV	17MA1AC01	Allied Mathematics - I	5	4
		17VE1GS01	Value Education	2	2
			17AE1SK01	SBE - I Communication Skills	2
<b>Total</b>				<b>30</b>	<b>20</b>
II	I	17GT2GS02/ 17GH2GS02	Tamil-II/ Hindi	5	3
	II	17GE2GSA2/ 17GE2GSB2	English - II	6	3
	III	17PH2MC03	Electricity	5	4
		17PH2MC04	Astrophysics	4	3
		17PH2CP01	Major Practical - I	3	3
		17MA2AC02	Allied Mathematics - II	5	4
	IV	17PH2SK02	SBE - II Digital Photography	2	2
<b>Total</b>				<b>30</b>	<b>22</b>
III	I	17GT3GS03/ 17GH3GS03	Tamil-III/ Hindi	5	3
	II	17GE3GSA3/ 17GE3GSB3	English - III	6	3
	III	17PH3MC05	Optics and Spectroscopy	4	4
		17PH3MC06	Laser and Fibre Optics	3	2
		17PH3CP02	Major Practical - II	3	2
		17CH3AC01	Allied Chemistry Theory - I	3	3
		17CH3AP01	Allied Chemistry Practical - I	2	1
	IV	17ES3GS01	Environmental Studies	2	2
17AE3SK03		SBE - III Office Automation	2	2	
<b>Total</b>				<b>30</b>	<b>22</b>
IV	I	17GT4GS04/ 17GH4GS04	Tamil-IV/ Hindi	5	4
	II	17GE4GSA4/ 17GE4GSB4	English - IV	6	4
	III	17PH4MC07	Electromagnetism	5	4
		17PH4CP03	Major Practical - III	3	2
		17PH4CE1A/ 17PH4CE1B	Heat and Thermodynamics / How Things Work	4	3
		17CH4AC02	Allied Chemistry Theory - II	3	3
		17CH4AP02	Allied Chemistry Practical - II	2	1
	IV	17PH4SK04	SBE - IV Mobile Technology	2	2
<b>Total</b>				<b>30</b>	<b>23</b>

Sem.	Part	Code	Title of the Paper	Hours	Credits
V	III	17PH5MC08	Atomic and Nuclear Physics	6	6
		17PH5MC09	Mathematical Physics	5	5
		17PH5MC10	Basic Electronics and Communication	5	5
		17PH5CE2A/ 17PH5CE2B/ 17PH5CE2C/ 17PH5CE2D	Materials Science / Biophysics/ Non Conventional Energy System/ Geometrical Optics	4	3
		17PH5CP04	Major Practical - IV	3	2
		17PH5CP05	Major Practical - V	3	2
		17PH5PR01	Project	2	-
	IV	17AE5NE01/ 17NC5NE01	NME - I Aptitude Building - I/ Organization and Health Programme in NCC	2	2
			<b>Total</b>	<b>30</b>	<b>25</b>
VI	III	17PH6MC11	Theoretical Physics	5	5
		17PH6MC12	Microprocessor	5	5
		17PH6MC13	Digital Electronics	5	4
		17PH6CE3A/ 17PH6CE3B/ 17PH6CE3C/ 17PH6CE3D	Nanoscience / Solid State Physics/ Geophysics/ Atmosphere, weather and Climate	4	3
		17PH6CP06	Major Practical -VI	3	2
		17PH6CP07	Major Practical - VII	3	2
		17PH6PR01	Project	3	2
	IV	17AE6NE02/ 17NC6NE02	NME - II Aptitude Building - II/ National Integration and Personality Development	2	2
	17PH6SS01	Self Study: Medical Physics and Instrumentation	-	2*	
			<b>Total</b>	<b>30</b>	<b>25</b>
I-IV	V	17NP4GS01	NSS, NCC, P. Ed.		1
IV-V		17EX5GS01	Extension		2
			<b>Total for all semesters</b>	<b>180</b>	<b>140+ 2*</b>

\* Extra Credit