

**SCHEME OF B.Sc. (HONS) PHYSICS 2020-23**

Sem	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Comm Services	GP	Cont hrs	Credits
I	CLL 101 Effective Communication-I 2.5(2-0-1)	MAL 101N Fundamentals of Mathematics 4(3-1-0)	PYL 102N Fundamentals of Physics 4(3-0-2)	ENL101 Statistics & Research Methodology-I 4(4-0-0)	CHL100 Environmental Studies 3(3-0-0)	PSL101 Understanding the Constitution 3(3-0-0)		PYS101 CS-I (70 hrs)	PYR100 1	22	21.5
II	CLL 102 Effective Communication-II 2.5(2-0-1)	BSL102 FINE ARTS 2(1-0-2)	PCL102 Psychology for living 3(2-1-0)	CHL111 Fundamentals of Chemistry 4(3-0-2)	MAL 106N Basics of Computer Programming 4(3-0-2)	BSL101 Entrepreneurship 3(2-0-2)	CLL 120 Human Values and Professional Ethics 2(2-0-0)	PYS 102 CS-II (70 hrs=2 crdts)	PYR110 1	25	23.5
III	PYL 101 Waves & Oscillations 4(3-0-2)	PYL 106 Solid State Physics 4(3-0-2)	PYL 105 Electricity and Magnetism 4(3-0-2)	Prog . Elec. I 4 credits	Open Elective I 3 credits	MAL 301 Data Analysis 3(2-0-2)		PYS201 CS-III	PYR200 1	26	23
IV	PYL 201 Electromagnetic Theory 4(3-1-0)	PYL 211 Semiconductor Physics 4(3-0-2)	PYL 103 Applied Mechanics 4(3-1-0)	Prog .Elec. II 4 credits	Open Elective II 3 credits			PYS202 CS-IV (140hrs) (2 crdt)*	PYR220 1	21	22
	PYI 240 Summer Internship. (0-0-6) 3										
V	PYL 104 Mathematical Physics I 4(3-1-0)	PYL 203N Thermodynamics and Statistical Mechanics 4(3-0-2)	Foreign Language 3(1-2-0)	Prog. Elec. III 4 credits	Open Elective III 3 credits		PYD 350 Project 4(0-0-8)	PYS301 CS-V	PYR300 1	20	23
VI	PYL 108 Quantum Mechanics 4(3-1-0)	PYL202 Mathematical Physics II 4(3-1-0)	PYL 301 Digital Electronics 4(3-0-2)	Prog. Elec. IV 4 credits	Open Elective IV 3 credits	PYL 310 Creativity and innovation outcome (1)	PYD 350 Project 4(0-0-8)	PYS302 CS-VI (140hrs) (2 crdt)	PYR330 1	21	27
	Total									135	143

\*Students can utilize the entire year including the summer break period for completing 140 community service hours.