

**Programme Structure of HPH: B.Sc. in Physics (Hons.)**

SEM	Course CODE	Name of Course	Theory/ Prac.	Credit	Study Hours	TE Full Marks	Assig. Full Marks	Total Marks	Pass Marks 30%	SLM Available In	
1 <sup>st</sup> Year	I	CC-PH-01	Lab -I	Practical	6	180	70	--	70	21	ENG
		CC-PH-02	Lab -II	Practical	6	180	70	--	70	21	ENG
		GE-01: # Refer Table below		Theory	6	180	50	20	70	21	
		AE-BG-11	* Bengali	Theory	2	60	50	20	70	21	BEN
	AE-EG-12	* English	ENG								
	II	CC-PH-03	Mechanics and General Physics	Theory	6	180	50	20	70	21	ENG
		CC-PH-04	Mathematical Methods in Physics-I	Theory	6	180	50	20	70	21	ENG
		GE-02: # Refer Table below		Theory	6	180	50	20	70	21	
AE-ES-21		Environmental Studies	Theory	2	60	50	20	70	21	BEN	
2 <sup>nd</sup> Year	III	CC-PH-05	Lab -III	Practical	6	180	70	--	70	21	ENG
		CC-PH-06	Lab -IV	Practical	6	180	70	--	70	21	ENG
		CC-PH-07	Mathematical Methods in Physics-II	Theory	6	180	50	20	70	21	ENG
		GE-03: # Refer Table below		Theory	6	180	50	20	70	21	
	IV	SE-PH-11	Electrical Circuits and Network Skills	Theory	2	60	50	10	60	18	ENG
		CC-PH-08	Electricity and Magnetism	Theory	6	180	50	20	70	21	ENG
		CC-PH-09	Waves and Optics	Theory	6	180	50	20	70	21	ENG
		CC-PH-10	Mathematical Methods in Physics - III	Theory	6	180	50	20	70	21	ENG
		GE-04: # Refer Table below		Theory	6	180	50	20	70	21	
		SE-PH-21	Renewable Energy and Energy Harvesting	Theory	2	60	50	10	60	18	ENG
3 <sup>rd</sup> Year	V	CC-PH-11	Lab -V	Practical	6	180	70	--	70	21	ENG
		CC-PH-12	Thermodynamics and Statistical Mechanics	Theory	6	180	50	20	70	21	ENG
		DS-PH-11	Physics of Devices and Communication	Theory	6	180	50	20	70	21	ENG
		DS-PH-21	DSE Lab- I	Practical	6	180	70	--	70	21	ENG
	VI	CC-PH-13	Quantum Physics	Theory	6	180	50	20	70	21	ENG
		CC-PH-14	Electronics	Theory	6	180	50	20	70	21	ENG
		DS-PH-31	Solid State Physics	Theory	6	180	50	20	70	21	ENG
		DS-PH-41	Nuclear and Particle Physics	Theory	6	180	50	20	70	21	ENG
<b>TOTAL</b>				<b>140</b>				<b>1800</b>			

**GE COMBINATION LIST:**

Subject	SEM-I: GE-01	SLM Available In	SEM-II: GE-02	SLM Available In	SEM-III: GE-03	SLM Available In	SEM-IV: GE-04	SLM Available In
Mathematics	GE-MT-11: Statistical Techniques	ENG	GE-MT-21: Dynamical Systems	ENG	GE-MT-31: Applications of Algebra	ENG	GE-MT-41: Modelling and Simulation	ENG
Chemistry	GE-CH-11: Basic Physical Chemistry	ENG	GE-CH-21: Basic Inorganic Chemistry	ENG	GE-CH-31: Basic Organic Chemistry	ENG	GE-CH-41: Application Oriented Chemistry	ENG
							‡ GE-CH-42: Approved MOOCs'	

\* Learners have to choose any one from **AE-BG-11: Bengali** or **AE-EG-12: English** as Ability Enhancement Compulsory Course 1

# Learners have to choose any one course from each individual GE group of Semester I, II, III and IV.

‡ Learners willing to choose MOOCs course as an option of study are advise to visit University official website for detailed instruction. In this regard, enrolled learners may communicate with Concerned School of Studies for guidance during their study of the programme.