

**ST. JOSEPH'S UNIVERSITY**

**Bengaluru - 27**



**Syllabus for**

**B.Sc./B.Sc. (Honors) Physics**

**I-IV Semesters**

**2022-2026**

**Department of Physics**

**School of Physical sciences**

**St. Joseph's university**

**Bengaluru - 560027**

### Structure of the physics course for I-IV semesters of BSc(honors) degree

The BSc honors degree course is a four year program divided into 8 semesters, each semester will consist of 14 weeks of instruction for theory and 11 weeks of instructions for practicals. In Physics there will be 8 discipline core papers and 8 practical papers from semester I-IV. The theory papers, continuous internal assessments(CIA) is given 40 % weightage and end semester examination (ESE) is given 60 % weightage. The practical internal assessment (PIA) is given 40% weightage and the end semester examination is given 60 % weightage. CIA is based on written tests, problem solving, assignments, quiz etc. End semester theory examination is for 2 hours duration (60 marks). Practical examination is for 3 hours and 30 marks.

Semester	Code number	Title of the paper	no of hours of teaching per week
I	PH 121	<b>Mechanics and Properties of Matter</b>	4
	PH1P1	Physics practical	4
II	PH 221	<b>Electricity and Magnetism</b>	4
	PH 2P1	Physics practical	4
III	PH 322	<b>Oscillations, Waves and Optics</b>	4
	PH 3P1	Physics practical	4
	PH 422	<b>Thermal Physics and Electronics</b>	4
IV	PH 4P1	Physics practical	4

### Marks allotments and credits for each paper .

Semester	Code number	no of credits	Continuous internal assessment marks	end semester examination marks	Total marks
I	PH 121	4	40	60	100
	PH1P1	2	20	30	50
II	PH 221	4	40	60	100
	PH 2P1	2	20	30	50
III	PH 322	4	40	60	100
	PH 3P1	2	20	30	50
IV	PH 422	4	40	60	100
	PH 4P1	2	20	30	50

