

## **PHYSICS**

### **Regular Track**

#### **First Semester**

<b>Sl.No</b>	<b>Course/Subject Title</b>	<b>Type of Course</b>	<b>Credits</b>
1.	Classical Mechanics	Core-1	4
2.	Quantum Mechanics-1	Core-2	4
3.	Mathematical Methods in Physics	Core-3	4
4.	Classical Electrodynamics	Core-4	4
5.	HSS / Writing	HSS 1	4
	<b>Total Semester Credits</b>		<b>20</b>

#### **Second Semester**

<b>Sl.No</b>	<b>Course/Subject Title</b>	<b>Type of Course</b>	<b>Credits</b>
1.	Quantum Mechanics-2	Core-5	4
2.	Methods of Experimental Physics I	Core-6	4
3.	Methods of Experimental Physics II	Core-7	4
4.	Computational Physics	Core-8	4
5.	Statistical Mechanics	Core-9	4
	<b>Total Semester Credits</b>		<b>20</b>

### Third Semester

Sl.No	Course/Subject Title	Type of Course	Credits
1.	Condensed Matter Physics	Core-10	4
2.	Atomic and Molecular Physics	Core 11	4
3	HSS/Writing	HSS 2	4
4.	Elective	Elective 1	4
5.	Research Project	Research Project	4
	<b>Total Semester Credits</b>		<b>20</b>

### Fourth Semester

Sl.No	Course/Subject Title	Type of Course	Credits
1.	Elective	Elective 2	4
2.	Elective	Elective 3	4
3.	HSS / Writing	HSS 3	4
3.	Research project	Research Project	8
	<b>Total Semester Credits</b>		<b>20</b>

**Summary:**

	Credits
Core	44
Elective	12
HSS	12
Research	12
<b>Total</b>	<b>80</b>

**Research Track****First Semester**

Sl.No	Course/Subject Title	Type of Course	Credits
1.	Classical Mechanics	Core-1	4
2.	Quantum Mechanics-1	Core-2	4
3.	Mathematical Methods in Physics	Core-3	4
4.	Classical Electrodynamics	Core-4	4
5.	HSS / Writing	HSS 1	4
	<b>Total Semester Credits</b>		<b>20</b>

## Second Semester

Sl.No	Course/Subject Title	Type of Course	Credits
1.	Quantum Mechanics-2	Core-5	4
2.	Advanced Physics Lab	Core 6	4
3.	Computational Physics	Core-7	4
4.	Methods of Experimental Physics	Core-8	4
5.	Statistical Mechanics	Core-9	4
	<b>Total Semester Credits</b>		<b>20</b>

## Third Semester

Sl.No	Course/Subject Title	Type of Course	Credits
2.	Elective	Elective 1	4
3.	Elective	Elective 2	4
4.	Research Project	Research Project	12
	<b>Total Semester Credits</b>		<b>20</b>

#### Fourth Semester

Sl.No	Course/Subject Title	Type of Course	Credits
2.	Elective	Elective 3	4
3.	HSS / Writing	HSS 2	4
3.	Research project	Research Project	12
	<b>Total Semester Credits</b>		<b>20</b>

#### Summary of the proposed changes:

	Credits
Core	36
Elective	12
HSS	08
Research	24
<b>Total</b>	<b>80</b>