

**School of Basic Sciences**  
**B.Sc. (Hons.) Physics (3 year) & B.Sc. (Research) (4 year)**

1 Year							
1 Semester							
SI No	Course Name	Course T	Course C				
				L	T	P	C
	Mathematical Physics I	Core	Theory	3	1	0	4
	Mechanics	Core	Theory	3	0	1	4
	Fundamental of Stock Market	MDC-1	Theory	3	1	0	4
	Generic Elective/ Minor-1	Elective	Theory	4	0	0	4
	Ecology and Environment	AEC-1	Theory	2	0	0	2
	Introduction to Python Programming	SEC-1	Integrated	1	0	1	2
	Health and Nutrition/	VAC-1	Theory	2	0	0	2
	<b>Total</b>			<b>18</b>	<b>2</b>	<b>2</b>	<b>22</b>
<b>Total Credits</b>							
2 Semester							
SI No	Course Name	Course T	Course C				
				L	T	P	C
	Mathematical Physics II	Core	Theory	3	1	0	4
	Electric Circuits and Networks	Core	Integrated	3	0	1	4
	Portfolio Mangement	MDC	Theory	<b>3</b>	<b>1</b>	<b>0</b>	4
	Generic Elective/ Minor-2	Elective	Theory	<b>4</b>	<b>0</b>	<b>0</b>	4
	Logical Communication/	AEC	Integrated	<b>1</b>	<b>0</b>	<b>1</b>	2
	Essentials of IT Tools	SEC	Integrated	<b>1</b>	<b>0</b>	<b>1</b>	2
	Digital Marketing	VAC	Theory	<b>2</b>	<b>0</b>	<b>0</b>	2
	<b>Total</b>						<b>22</b>
<b>Total Credits</b>							
2 Year							
3 Semester							
SI No	Course Name	Course T	Course C				
				L	T	P	C
	Modern Physics	Core		<b>3</b>	<b>1</b>	<b>0</b>	4
	Waves and Optics	Core	Integrated	<b>3</b>	<b>0</b>	<b>1</b>	4
	Analog Electronics	Core	Integrated	<b>3</b>	<b>0</b>	<b>1</b>	4
	Generic Elective/ Minor-3/	Elective	Theory	<b>4</b>	<b>0</b>	<b>0</b>	4
	Critical Thinking & Writing /List from AEC bucket	AEC	Theory	<b>2</b>	<b>0</b>	<b>0</b>	2
	Introduction to Artificial Intelligence/List from SEC bucket	SEC	Theory	<b>2</b>	<b>0</b>	<b>0</b>	2
	Vedic Mathematics/List from VAC bucket	VAC	Theory	<b>2</b>	<b>0</b>	<b>0</b>	2
	<b>Total</b>						<b>22</b>
<b>Total Credits</b>							
4 Semester							
SI No	Course Name	Course T	Course C				
				L	T	P	C
	Digital Electronics	Core	Integrated	3	0	1	4
	Electricity and Magnetism	Core	Integrated	3	0	1	4
	Condensed Matter Physics	Core	Theory	3	1	0	4
	Introduction to sustainability	MDC	Theory	2	0	0	2
	Generic Elective/ Minor-4/	Elective	Theory	4	0	0	4
	Research Methodology/List from AEC bucket	AEC	Theory	2	0	0	2
	Cyber Sphere & Security Global Concern	SEC	Theory	2	0	0	2
	<b>Total</b>						<b>22</b>
<b>Total Credits</b>							
3 Year							
5 Semester							
SI No	Course Name	Course T	Course C				
				L	T	P	C
	Thermal Physics	Core	Theory	3	0	1	4

	Quantum Mechanics I	Core	Integrated	3	1	0	4
	Electromagnetic Theory	Core	Integrated	3	1	0	4
	Discipline Specific Elective-I	Elective	Integrated	3	1	0	4
	Generic Elective/Minor-5	Elective	Theory	4	0	0	4
	Internship-1	Internship	Internship	2	0	0	2
<b>Total Credits</b>							22
<b>6 Semester</b>							
SI No	Course Name	Course C	Course C				
				L	T	P	C
	Classical Dynamics	Core	Theory	3	1	0	4
	Condensed Matter Physics	Core	Integrated	3	0	1	4
	Discipline Specific Elective-II	Elective	Theory	3	1	0	4
	Discipline Specific Elective-III	Elective	Theory	3	1	0	4
	Generic Elective/Minor-6	Elective	Theory	4	0	0	4
	Innovation and Entrepreneurship	SEC	Theory	2	0	0	2
<b>Total Credits</b>							22
<b>4 Year</b>							
<b>7 Semester</b>							
SI No	Course Name	Course C	Course C				
				L	T	P	C
1	Electives-I	DSE-4	Core	3	1	0	4
2	Electives-II	DSE-5	Core	3	1	0	4
3	Electives-III	DSE-6	Core	3	1	0	4
4	GE/ Minor-7	Minor-7		4	0	0	4
5	GE/ Minor-8	Minor-8		4	0	0	4
<b>Total Credits</b>							20
<b>8 Semester</b>							
SI No	Course Name	Course C	Course C				
				L	T	P	C
	Dissertation	Dissertation		-	-	-	12
<b>Total Credits</b>							12