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

		1 Year					
		1 Semester				_	
Sl No	Course Name	Course T	Course C	*	Т	P	C
	No. de la	Core	Th	L	-	-	С
	Mathematical Physics I	_	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
	Total			18	2	2	22
Fatal C	uo lita						
Fotal C		2 Semester					
Sl 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	3	1	0	4
	Generic Elective/ Minor-2	Elective	Theory	4	0	0	4
	Logical Communication/	AEC	Integarted	1	0	1	2
	Essentials of IT Tools	SEC	Integrated	1	0	1	2
	Digital Marketing	VAC	Theory	2	0	0	2
	3						
	Total C	Credits	·		·	•	22
2 Year		• • •					
		3 Semester					
SI No	Course Name	Course T	Course C				
Sl No	Course Name	Course T	Course C	L	T	P	C
Sl No		Course T Core	Course C	L 3	T 1	P	C 4
SI No	Modern Physics		Course C Integrated		-	-	
SI No	Modern Physics Waves and Optics	Core		3	1	0	4
SI No	Modern Physics Waves and Optics Analog Electronics	Core Core	Integrated	3 3 3	1 0 0	0 1 1	4 4
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/	Core Core Core	Integrated Integrated Theory	3 3 3 4	1 0 0	0 1 1 0	4 4 4 4
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket	Core Core Core Elective	Integrated Integrated Theory Theory	3 3 3 4 2	1 0 0 0	0 1 1 0 0	4 4 4 4 2
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/	Core Core Core Elective AEC	Integrated Integrated Theory	3 3 3 4	1 0 0	0 1 1 0	4 4 4 4
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket	Core Core Core Elective AEC	Integrated Integrated Theory Theory	3 3 3 4 2	1 0 0 0	0 1 1 0 0	4 4 4 4 2
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC	Core Core Elective AEC SEC	Integrated Integrated Theory Theory Theory	3 3 3 4 2 2	1 0 0 0 0	0 1 1 0 0	4 4 4 4 2 2
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total C	Core Core Elective AEC SEC VAC	Integrated Integrated Theory Theory Theory	3 3 3 4 2 2	1 0 0 0 0	0 1 1 0 0	4 4 4 4 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total C	Core Core Elective AEC SEC VAC	Integrated Integrated Theory Theory Theory Theory	3 3 3 4 2 2	1 0 0 0 0	0 1 1 0 0	4 4 4 4 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total C	Core Core Elective AEC SEC VAC	Integrated Integrated Theory Theory Theory	3 3 3 4 2 2	1 0 0 0 0 0	0 1 1 0 0 0	4 4 4 2 2 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total C	Core Core Elective AEC SEC VAC Credits 4 Semester Course T	Integrated Integrated Theory Theory Theory Theory Course C	3 3 4 2 2 2	1 0 0 0 0 0	0 1 1 0 0 0	4 4 4 2 2 2 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Course Name Digital Electronics	Core Core Elective AEC SEC VAC Credits 4 Semester Course T Core	Integrated Integrated Theory Theory Theory Theory Course C Integarted	3 3 4 2 2 2 2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Course Name Digital Electronics Electricity and Magnetism	Core Core Core Elective AEC SEC VAC VAC Credits 4 Semester Course T Core Core	Integrated Integrated Theory Theory Theory Theory Theory Integrated Integrated	3 3 4 2 2 2 2 L 3 3	1 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics	Core Core Elective AEC SEC VAC Credits 4 Semester Course T Core Core Core	Integrated Integrated Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Integrated	3 3 4 2 2 2 2 L 3 3 3	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4 4
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability	Core Core Elective AEC SEC VAC Credits 4 Semester Course T Core Core Core Core MDC	Integrated Integrated Theory Theory Theory Theory Course C Integrated Integrated Integrated Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4 4 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/	Core Core Elective AEC SEC VAC Credits 4 Semester Core Core Core Core Core MDC Elective	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4 4 4 4 4 4 2 2 2 2 4
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket	Core Core Elective AEC SEC VAC Credits 4 Semester Core Core Core Core Core Core ADC Credits AEC SEC	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Integrated Theory Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4 4 2 2	1 0 0 0 0 0 0	0 1 1 0 0 0 0 0	4 4 4 2 2 2 2 2 2 2 2 4 4 4 2 4 2 2
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket Cyber Sphere & Security Global Concern	Core Core Elective AEC SEC VAC Credits 4 Semester Core Core Core Core Core MDC Elective	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0	4 4 4 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket	Core Core Elective AEC SEC VAC Credits 4 Semester Course T Core Core Core Core Core AEC SEC	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Integrated Theory Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4 4 2 2	1 0 0 0 0 0 0	0 1 1 0 0 0 0 0	4 4 4 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket Cyber Sphere & Security Global Concern Total Credits	Core Core Elective AEC SEC VAC VAC Credits 4 Semester Course T Core Core Core Core AEC SEC 3 Year	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Integrated Theory Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4 4 2 2	1 0 0 0 0 0 0	0 1 1 0 0 0 0 0	4 4 4 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2
SI No	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket Cyber Sphere & Security Global Concern Total Credits	Core Core Elective AEC SEC VAC Credits 4 Semester Course T Core Core Core Core Core AEC SEC	Integrated Integrated Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4 4 2 2	1 0 0 0 0 0 0	0 1 1 0 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4 2 4 2 2
	Modern Physics Waves and Optics Analog Electronics Generic Elective/ Minor-3/ Critical Thinking & Writing /List from AEC bucket Introduction to Artificial Intelligence/List from SEC bucket Vedic Mathematics/List from VAC bucket Total Total Course Name Digital Electronics Electricity and Magnetism Condensed Matter Physics Introduction to sustainability Generic Elective/ Minor-4/ Research Methodology/List from AEC bucket Cyber Sphere & Security Global Concern Total Credits	Core Core Elective AEC SEC VAC Credits 4 Semester Core Core Core Core Core Core SEC AEC SEC VAC SEC VAC SEC VAC SEC SEC Core Core Core Core AEC SEC SEC 3 Year 5 Semester	Integrated Integrated Theory Theory Theory Theory Theory Theory Integrated Integrated Integrated Integrated Integrated Theory Theory Theory Theory	3 3 4 2 2 2 2 L 3 3 3 3 2 4 4 2 2	1 0 0 0 0 0 0	0 1 1 0 0 0 0 0	4 4 4 2 2 2 2 2 2 2 4 4 4 2

	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
	Total Cre	dits					22
		6 Semester					
Sl No	Course Name	Course C	Course C				
				L	T	P	С
	Classical Dynamics	Core	Theory	3	1		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		4
	Generic Elective/Minor-6	Elective	Theory	4	0	0	4
	Innovation and Entrepreneurship	SEC	Theory	2	0	0	2
	Total Cre	dits					22
		4 Year					
		7 Semester					
Sl 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
	Total Cre	dits					20
		8 Semester					
Sl No	Course Name	Course C	Course C				
				L	T	P	C
	Dissertation	Dissertation		-	-	-	12
	Total Cre	dits					12