

PROGRAM CODE 30 Integrated M.Sc. (Physics)
 DEPARTMENT PH Physics Department
 YEAR I

AUTUMN SEMESTER

S. NO.	SUBJECT CODE	COURSE TITLE	SUBJECT AREA	CREDITS	Teaching Scheme (Hrs./Week)			Exam. Duration (Hrs.)		Relative Weightage (%)				
					L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	MA-001	Mathematics-I	BSC	4	3	1	0	3	0	25	-	25	50	-
2.	PH-001	Mechanics	BSC	4	3	0	2	3	0	15	15	30	40	-
3.	CE-105	Introduction to Environmental Studies	GSC	3	3	0	0	3	0	15	-	35	50	-
4.	HS-001A HS-001B	Communication Skills (Basic) Communication Skills (Advanced)	HSSC	2	1	0	2	2	0	25	-	25	50	-
5.	HS-002	Ethics and Self Awareness	HSSC	2	1	1	0	2	0	25	-	25	50	-
6.	PH-101	Introduction to Physical Science	DCC	2	2	0	0	0	0	-	-	-	100	-
7.	PH-103	Computer Programming	ESC	4	3	0	2	3	0	15	15	30	40	-
Sub Total				21	16	2	6							

SPRING SEMESTER

1.	MA-004	Numerical Methods	BSC	4	3	1	0	3	0	25	-	25	50	-
2.	EC-001	Fundamentals of Electronics	DCC/ ESC	4	3	1	2/2	3	-	15	15	30	40	-
3.	MI-001	Thermodynamics	DCC/ ESC	4	3	1	0	3	-	25	-	25	50	-
4.	EE-001	Electrical Science	DCC/ ESC	4	3	1	2/2	3	-	15	15	30	40	-
5.	MI-003	Mechanical Engineering Drawing	ESC	4	2	0	4	3	-	-	25	25	50	-
6.	CY-003	Chemistry	BSC	4	3	0	2	3	-	15	15	30	40	-
Sub Total				24	17	4	8	15						

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AUTUMN SEMESTER

S. NO.	SUBJECT CODE	COURSE TITLE	SUBJECT AREA	CREDITS	Teaching Scheme (Hrs./Week)			Exam. Duration (Hrs.)		Relative Weightage (%)				
					L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	PH-201M	Optics	BSC	5	3	1	2	3	0	15	15	30	40	-
2.	CY-201M	Physical Chemistry-I	BSC	3	2	1	0	2	0	25	-	25	50	-
3.	CY-202M	Basic Organic Chemistry	BSC	3	2	1	0	2	0	25	-	25	50	-
4.	MA-205	Ordinary and Partial Differential Equation	BSC	4	3	1	0	3	0	25	-	25	50	-
5.	PH-203	Elements of Classical Mechanics	DCC	4	3	1	0	3	-	25	-	25	50	-
6.	HS-201	Economics	HSSMC	3	2	1	0	2	0	25	-	25	50	-
Sub Total				22	15	6	2							

SPRING SEMESTER

1.	PH-202M	Electricity and Magnetism	BSC	5	3	1	2	3	0	15	15	30	40	-
2.	CY-203M	Organic Chemistry-I	BSC	4	3	1	0	3	0	25	-	25	50	-
3.	MA-102	Linear algebra	BSC	4	3	1	0	3	-	25	-	25	50	-
4.	PH-212	Thermal Physics	BSC	5	3	1	2	3	3	15	15	15	40	15
5.	BM-201	Management Concepts and Practices	HSSMC	3	2	1	0	2	0	25	-	25	50	-
Sub Total				21	14	5	4							

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 YEAR III

AUTUMN SEMESTER

S. NO.	SUBJECT CODE	COURSE TITLE	SUBJECT AREA	Teaching Scheme (Hrs./Week)			Exam. Duration (Hrs.)		Relative Weightage (%)					
				CREDITS	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	PH-301	Plasma Physics		3	3	0	0	3	0	15	-	35	50	-
2.	PH-303	Quantum Physics	DCC	4	3	1	0	3	-	25	-	25	50	-
3.	PH-305	Properties of Matter and Acoustics	DCC	4	3	1	0	3	-	25	-	25	50	-
4.	PH-307	Atomic Physics	DCC	4	3	1	0	3	-	25	-	25	50	-
5.	PH-309	Laboratory Work I	DC	3	0	0	6	-	6	-	50	-	-	50
6.		Open elective course/ Management studies elective courses	OEC/ HSS MEC	3	2	1	0	2	-	25	-	25	50	-
Sub Total				21	14	4	6							

SPRING SEMESTER

1.	PH-302	Electronics	DCC	4	3	0	2	3	-	10	15	25	50	-
2.	PH-304	Elements of Condensed Matter Physics	DCC	4	3	1	0	3	-	25	-	25	50	-
3.	PH-306	Special Theory of Relativity	DCC	3	2	1	0	2	0	25	-	25	50	-
4.	PH-308	Nuclear Physics and its Applications	DCC	4	3	1	0	3	-	25	-	25	50	-
5.		Open elective course/ Management studies elective courses	OEC/ HSS MEC	3	2	1	0	2	-	25	-	25	50	-
Sub Total				18	13	4	2							