Paper Code	Course Title		Credits		
	Semester I	L	Т	Р	
MSPHY1001C04	Mathematical Physics – I		0	0	
MSPHY1002C04	Classical Mechanics		0	0	
MSPHY1003C04	Electronics		0	0 0	
MSPHY1004C04	General Physics Lab. – I		0	4	
MSPHY1005C04	Electronics Lab. – I		0	4	
MSPHY1006E04	Experimental Techniques		0	0	
MSPHY1007E04	Advanced Optics		0	0	
	Total Credits of Semester I				
	Semester II	L	Т	Ρ	
MSPHY2001C04	Thermodynamics and Statistical Mechanics	4	0	0	
MSPHY2002C04	Classical Electrodynamics and Relativity		0	0	
MSPHY2003C04	Quantum Mechanics – I		0	0	
MSPHY2004C04	General Physics Lab. – II		0	4	
MSPHY2005C04	Electronics Lab. – II		0	4	
MSPHY2006E04	Advanced Electronics		0	0	
MSPHY2007E04	Materials Science				
	Total Credits of Semester II	2	28		
	Semester III	L	Т	Р	
MSPHY3001C04			0	0	
MSPHY3002C04	Optics Lab. – I		0	4	
MSPHY3003E04	Condensed Matter Physics		0	0	
MSPHY3004E04	Atomic & Molecular Physics		0	0	
MSPHY3005E04	Quantum Chemistry, Spectroscopy & Photochemistry		0	0	
	(Swayam Course)			-	
MSPHY3006E04	Nanoelectronics		0	0	
MSPHY3007E04	Quantum Chemistry and Biophysics		0	0	
MSPHY3008E04	Project		0	4	
	Total Credits of Semester III		32		
	Semester IV	L	Т	Р	
MSPHY4001C04	Mathematical Physics – II	4	0	0	
MSPHY4002C04	Optics Lab. – II		0	4	
MSPHY4003E04	Nuclear and Particle Physics		0	- 0	
MSPHY4004E04	Computational Physics		0	0	
MSPHY4005E04	Magnetism and Thin Film Technology		0	0	
	Plasma Physics and Space Physics		0	0	
MSPHV4006E04			i U		
MSPHY4006E04 MSPHY4007E04		4		Δ	
MSPHY4006E04 MSPHY4007E04	Project Total Credits of Semester IV	0 2	0	4	
	Project	0	0	4	

Out of the two courses MSPHY3004E04 and MSPHY3005E04, the student can take only one course.

Paper Code	Course Title	Credit	Туре
	Semester I	oroun	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MSPHY1001C04	Mathematical Physics – I	4	Core
MSPHY1002C04	Classical Mechanics	4	Core
MSPHY1003C04	Electronics	4	Core
MSPHY1004C04	General Physics Lab. – I	4	Core
MSPHY1005C04	Electronics Lab. – I	4	Core
MSPHY1006E04	Experimental Techniques	4	Elective
MSPHY1007E04	Advanced Optics	4	Elective
		1	LICOLIVO
	Total Credits in Semester I	28	
	Semester II	20	
MSPHY2001C04	Thermodynamics and Statistical	4	Core
	Mechanics	•	0010
MSPHY2002C04	Classical Electrodynamics and Relativity	4	Core
MSPHY2003C04	Quantum Mechanics – I	4	Core
MSPHY2004C04	General Physics Lab. – II	4	Core
MSPHY2005C04	Electronics Lab. – II	4	Core
MSPHY2006E04	Advanced Electronics	4	Elective
MSPHY2007E04	Materials Science	4	Elective
	Total Credits in Semester II	28	LIGOLIVO
	Semester III		
MSPHY3001C04	Quantum Mechanics – II	4	Core
MSPHY3002C04	Optics Lab. – I	4	Core
MSPHY3003E04	Condensed Matter Physics	4	Elective
MSPHY3004E04	Atomic & Molecular Physics	4	Elective
MSPHY3005E04	Quantum Chemistry, Spectroscopy &	4	Elective
	Photochemistry (Swayam Course)	•	LICOUVO
MSPHY3006E04	Nanoelectronics	4	Elective
MSPHY3007E04	Quantum Chemistry and Biophysics	4	
MSPHY3008E04	Project	4	Elective
	Total Credits in Semester III	32	
	Semester IV		
MSPHY4001C04	Mathematical Physics – II	4	Core
MSPHY4002C04	Optics Lab. – II	4	Core
MSPHY4003E04	Nuclear and Particle Physics	4	Elective
MSPHY4004E04	Computational Physics	4	Elective
MSPHY4005E04	Magnetism and Thin Film Technology	4	Elective
MSPHY4006E04	Plasma Physics and Space Physics	4	Elective
MSPHY4007E04	Project	4	Elective
	Total Credits in Semester IV	28	1
	TOTAL CREDIT HOURS	116	
			1

M.Sc. in Physics – Semester Wise Course Structure (Total 96 Credits)

Out of the two courses MSPHY3004E04 and MSPHY3005E04, the student can take only one course.