

Course Code	Name of Paper	Credit	Nature of Paper	Internal Marks	Theory Marks	Total Marks
<b>M.Sc. Physics First Semester</b>						
PHY-101	Mathematical Methods in Physics	4	Core	25	75	100
PHY 102	Classical Physics	4	Core	25	75	100
PHY 103	Fundamentals of Quantum Mechanics	4	Core	25	75	100
PHY 104	Electronic Devices	4	Core	25	75	100
PHY 105	Practical - 02	4	Core	25	75	100
PHY106	Minor Elective(from other department)	4	Elective	25	75	100
PHY 107	Scientific Educational Tour	4	Core	-	-	100
<b>Total Credit</b>		<b>28</b>				<b>700</b>
<b>M.Sc. Physics Second Semester</b>						
PHY 201	Advance Quantum Mechanics	4	Core	25	75	100
PHY 202	Condensed Matter Physics	4	Core	25	75	100
PHY 203	Atomic and Molecular Physics	4	Core	25	75	100
PHY 204	Electrodynamics and Plasma Physics	4	Core	25	75	100
PHY 205	Practical - 02	4	Core	25	75	100
PHY 206	Industrial Training	4	Core	-	-	100
<b>Total</b>		<b>24</b>				<b>600</b>
<b>M.Sc. Physics Third Semester</b>						
PHY 301	Computer Programming	4	Core	25	75	100
PHY 302	Nuclear and Particle Physics	4	Core	25	75	100
PHY 303/305	Elective (Electronics-I / Condensed Matter Physics-I)	4	Elective	25	75	100
PHY 304/306	Elective-II (Electronics-II/ Condensed Matter Physics-II)	4	Elective	25	75	100
PHY 307	Practical - 02	4	Core	25	75	100
PHY 308	Scientific Survey	4	Core	-	-	100
<b>Total</b>		<b>24</b>				<b>600</b>
<b>M.Sc. Physics Fourth Semester</b>						
PHY 401	Physics of Laser and Its Application	4	Core	25	75	100
PHY 402	Statistical Mechanics	4	Core	25	75	100
PHY 403/405	Elective-III (Electronics-III /Condensed Matter Physics-III)	4	Elective	25	75	100
PHY 404/406	Elective-IV(Electronics-IV/ Condensed Matter Physics-IV)	4	Elective	25	75	100
PHY 407	Practical - 02	4	Core	25	75	100
PHY 408	Research Project/Dissertation	4	Core	-	-	100
<b>Total</b>		<b>24</b>				<b>600</b>
<b>Grand Total</b>		<b>100</b>				<b>2500</b>

**Syllabus of M.Sc. Physics (According to NEP 2020)  
Bundelkhand University, Jhansi(U.P.)**

# Syllabus Of M Sc In Physics

**Padhraic Smyth**



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