



Netaji Subhas University

Department of Physics

Course Classification Based on Relevance and Outcomes

M.Sc Physics

Semester	Course Name /Course Code	Local /Regional /National/ Global Relevance	Description of Outcomes
1 st	Classical Mechanics (MPH101)	Global	Understanding the various dimensions of motion
	Mathematical Methods MPH102	Global	Understanding of Mathematical tools
	Quantum Mechanics I MPII103	Global	Concepts of Quantum mechanics and applications
	Electronic Devices MPH104	Global	Devices and the concepts of electronic applications
	General Physics Lab I MPH 105P1	Global	Application of concepts of Physics
	General Physics Lab II MPH 106P2	Global	Application of concepts of Physics
2 nd	Electromagnetic Theory MPH201	Global	Understanding of electromagnetic waves and their propagation
	Solid State Physics MPH202	Global	Understanding the structure of solids and the concepts for research applications
	Scientific Computing MPH203	Global	Programming language and its use
	Quantum Mechanics –II MPH 204	Global	The quantum approach and dual nature of matter
	General Physics Lab –III MPH 205P1	Global	Application of concepts of Physics
	Scientific Computing Lab MPH206P2	Global	Programming language and applications

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Jambhedpur, Jharkhand

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3 rd	Atomic and Molecular Physics MPH301	Global	Atomic and molecular dimensions of Physics
	Introduction to Astrophysics MPH302	Global	Understanding the origin and evolution of Universe
	Statistical Mechanics MPH303	Global	Concepts of thermodynamical variables and statistical details
	Specialization Paper I (Elective) MPH304	Global	Design, behavior and application of electronic devices
	Specialization Paper Practical I MPH305P1	Global	Practical demonstration of electronic concepts and applications
	Dissertation- I MPH306P2	Global	Research clarity and approach
4 th	Nuclear Physics MPH401	Global	Radioactivity, Nuclear stability and understanding
	Introduction to Nanotechnology MPH402	Global	Understanding matter in nano scale
	Environmental Physics MPH403	Global	Learning about environment and sustainable development goals
	Specialization Paper II (Elective) MPH404	Global	Advanced concepts of electronics
	Specialization Paper Practical II MPH405P1	Global	Practical clarity of electronic concepts
	Dissertation-II MPH 406P2	Global	Research clarity and approach and emphasis

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