

DEPARTMENT OF PHYSICS
Faculty of Natural Science
Jamia Millia Islamia, New Delhi

Details of subjects required for online exam forms: Even Semester 2016-17

Name of the Department : Physics

Whether CBCS structure followed : Yes, Followed

B.Sc. Physics (Hons.)

S.No	Title of Paper	Paper type	Paper Code	Credit	Maximum Marks (Internal Assessment)	Maximum Marks (University Exam.)
Semester-II						
1	Thermal Physics	Core	PHB 21C	3	25	75
2	Oscillation and Waves	Core	PHB 22C	3	25	75
3	Development of Modern Physics (Choice Based Elective)	CBCS	PHB 21E	4	25	75
4	Lab II	Lab.	PHB 21L	2	50	50
Semester- IV						
1	Electricity & Magnetism II	Core	PHB 41C	3	25	75
2	Quantum Mechanics	Core	PHB 42C	3	25	75
3	Mathematical Physics II	Core	PHB 43C	4	25	75
4	Properties of Matter (Choice Based Elective)	CBCS	PHB 41E	4	25	75
5	Lab IV	Lab.	PHB41L	2	50	50

Semester-VI (Non CBCS System)						
1	Solid State Physics-II	Core	PHB-601	-	25	75
2	Atomic & Molecular Physics	Core	PHB-602	-	25	75
3	Nuclear and Particle Physics	Core	PHB-603	-	25	75
4	Semiconductor Physics	Core	PHB-604	-	25	75
5	Advanced Optics	Core	PHB-605	-	25	75
6	Lab VI	Lab	PHB-611	-	50	50

B. Sc. (Subsidiary/Other Disciplines):

S.No.	Title of Paper	Paper type	Paper Code	Credit	Maximum Marks (Internal Assessment)	Maximum Marks (University Exam.)
Semester-II						
1	Thermal Physics	Core	PHB-21S	3	25	75
2	Lab II	Lab.	PHB-23L	1	50	50
Semester-IV						
1	Quantum Mechanics	Core	PHB-41S	3	25	75
2	Lab IV	Lab.	PHB-43L	1	50	50

B.Sc. (Pass/Inst.):

S.No.	Title of Paper	Paper type	Paper Code	Credit	Maximum Marks (Internal Assessment)	Maximum Marks (University Exam.)
Semester – II						
1	Thermal Physics	Core	PHB-21P	3	25	75
2	Lab II	Lab.	PHB-22L	1	50	50

Semester – IV						
1	Electricity & Magnetism II	Core	PHB-41P	3	25	75
2	Quantum Mechanics	Core	PHB-42P	3	25	75
3	Lab IV	Lab.	PHB-42L	2	50	50
Semester-VI (Non CBCS System)						
1	Atomic & Molecular Physics	Core	PHB-606	-	25	75
2	Nuclear and Particle Physics	Core	PHB-607	-	25	75
3	Lab VI	Lab.	PHB-612	-	50	50

M.Sc. Physics (Semester - II) :

S.No.	Title of Paper	Paper type	Paper Code	Credit	Maximum Marks (Internal Assessment)	Maximum Marks (University Exam.)
1.	Condensed Matter Physics I	Core	PHM-21C	4	25	75
2.	Quantum Mechanics II	Core	PHM-22C	4	25	75
3.	Electrodynamics	Core	PHM-23C	4	25	75
4.	Mathematical Physics II (Choice Based Elective)	CBCS	PHM-21E	4	25	75
5.	Numerical Analysis and Programming (Skill Enhancement Course)	SEC	PHM-21A	4	25	75
6.	Lab II	Lab.	PHM-21L	4	50	50

M.Sc. Physics (Semester - IV) :

S.No.	Title of Paper	Paper type	Paper Code	Credit	Maximum Marks (Internal Assessment)	Maximum Marks (University Exam.)
1.	Statistical Mechanics	Core	PHM 41C	4	25	75
2.	Advanced Topics in Material Science	CBCS	PHM 41E	4	25	75
3.	Characterization of Materials	CBCS	PHM 42E	4	25	75
4.	Physics & Technology of Semiconductor Devices	CBCS	PHM 43E	4	25	75
5.	Photonics	CBCS	PHM 44E	4	25	75
6.	Quantum Optics	CBCS	PHM 45E	4	25	75
7.	Laser Spectroscopy	CBCS	PHM 46E	4	25	75
8.	General Relativity	CBCS	PHM 47E	4	25	75
9.	Particle Physics	CBCS	PHM 48E	4	25	75
10.	Quantum Field Theory	CBCS	PHM 49E	4	25	75
11.	Project	Project	PHM 42C	4	50	50