

**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**

(Institution of National Importance under NITs Act, Established by Govt. of India)

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर**JLN Marg, Jaipur-302017 (India)**

2017-18 – M.Sc. – PHYSICS			
Course Code	Course Title	Type	Credits (L T P S)
Semester 1 – PHYSICS			
HST603	Comprehensive English dynamics of communication	CORE	0 (0 0 0 0)
PHT651	Classical Mechanics	CORE	4 (3 1 0 0)
PHT652	Mathematical Physics	CORE	4 (3 1 0 0)
PHT653	Electronics	CORE	4 (3 1 0 0)
PHT654	Quantum Mechanics	CORE	4 (3 1 0 0)
PHP655	Electronics lab	CORE	6 (0 0 12 0)
Total Semester Credits			22

Semester 2- PHYSICS			
PHT661	Atomic & Molecular Spectroscopy	CORE	4 (3 1 0 0)
PHT662	Nuclear and Particle Physics	CORE	4 (3 1 0 0)
PHT663	Electromagnetic Theory	CORE	4 (3 1 0 0)
PHT664	Advanced Quantum Mechanics	CORE	4 (3 1 0 0)
PHP665	Nuclear Physics & Spectroscopy lab	CORE	6 (0 0 12 0)
Total Semester Credits			22

Semester 3-PHYSICS			
PHT671	Solid State Physics	CORE	4 (3 1 0 0)
PHT672	Statistical Mechanics	CORE	4 (3 1 0 0)
PHP673	Solid State Physics & Optoelectronics lab	CORE	6 (0 0 12 0)
PHPE01	Program Elective 01	Program Elective	3 (3 0 0 0)
PHPE02	Program Elective 02	Program Elective	3 (3 0 0 0)
PHS674	Seminar	CORE	1 (0 0 1 0)
Total Semester Credits			21

Semester 4-PHYSICS			
PHT681	Numerical methods and Computer Programming	CORE	4 (3 1 0 0)
PHPE03	Program Elective 03	Program Elective	3 (3 0 0 0)
PHPE04	Program Elective 04	Program Elective	3 (3 0 0 0)
PHPE05	Program Elective 05	Program Elective	3 (3 0 0 0)
PHD682	Dissertation (Project work)	CORE	6 (0 0 12 0)
PHP683	OR	CORE	3 (0 0 6 0)
PHPE06	1. Advanced Physics lab 2. Additional Program Elective	Program Elective	3 (3 0 0 0)
Total Semester Credits			19
Total Credits of all Semesters			84