

List of courses having focus on local, national, regional and global developmental needs offered by the Physics Department

Physics						
Programme: M.Sc. Physics						Year: 2018
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
18 PPS 101	Core I: Mathematical Physics				✓	Competitive Exams like NET, SET, GATE & CSIR
18 PPS 102	Core II: Classical and nonlinear dynamics		✓			Competitive Exams like NET, SET, GATE & CSIR
18 PPS 103	Core III: Statistical Mechanics				✓	Higher Education
18 PPS 1E1	Major Elective I :Applied Electronics				✓	Electronic industries
18 PPS 204	Core IV: Quantum Mechanics I				✓	Competitive Exams like NET, SET, GATE & CSIR and Teaching
18 PPS 205	Core V: Electromagnetic theory & Electrodynamics		✓			Competitive Exams, Teaching, Electrical industry
18 PPS 206	Core VI: Lasers & Non-linear optics	✓			✓	Pursue Research
18 PPS 207	Core VII: Electronic Communications and Cyber security			✓	✓	IT and Electronic sectors
18 PPS 208	Core VIII: General Physics lab I				✓	Teaching and Research
18 PPS 209	Core IX: Electronics lab I					Teaching and Electronic industry
18 PPS 2N1	Non Major Elective: Non Conventional Energy sources				✓	Teaching and Research
17 PPS 310	Core X: Molecular Spectroscopy			✓	✓	Teaching and Research
17 PPS 311	Core XI: Condensed Matter Physics			✓	✓	Higher Education and Research

17 PPS 3E2	Major Elective II: Optoelectronics & Nanoscience		✓		✓	Electronic industries
17 PPS 412	Core XII: Lasers & Non-linear optics		✓		✓	Teaching, Research and jobs in leading organizations like IGCAR, BARC
17 PPS 413	Core XIII: Nuclear & Particle Physics				✓	IT Sector
17 PPS 4E3	Major Elective III: Microprocessor & Object Oriented Programming With C++	✓		✓		Teaching and Research
17 PPS 414	Core XIV: General Physics lab II		✓		✓	Teaching and Electronic industry
17 PPS 415	Core XV: Electronics lab II				✓	Teaching and Electronic industry
17 PPS 416	Core XVI: Computer lab in C++		✓		✓	IT Sector
17 PPS 417	Core XVII: Project		✓		✓	Research

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