

M. M. N. S. S COLLEGE KOTTIYAM

P G DEPARTMENT OF PHYSICS



PROGRAMMES OFFERED

- BSc PHYSICS - SPECIALISATION : NANO SCIENCE AND NANOTECHNOLOGY (3 years)
- BSc HONOURS IN PHYSICS (4 years)
- BSc HONOURS IN PHYSICS WITH RESEARCH DEGREE (4 years)
- MSc PHYSICS (2 years)

DISCIPLINE SPECIFIC CORE (DSC) COURSES

Properties of solids
Foundation course in physics 1
Introduction to mechanics and energy resources
Foundation course in physics -2
Optics and Thermodynamics
Modern Physics
Basic electronics
Digital electronics and data science
Solid state Physics & spectroscopy
Basics of nanoscience and nanotechnology
Classical dynamics
Electromagnetics and transient currents
Synthesis of nanomaterials
Optics
Quantum Mechanics -1
Thermodynamics and Statistical Mechanics
Characterization of nano materials
Research methodology
Atomic and molecular physics
Nuclear and particle physics
Solid state physics
Nanotechnology for energy conservation and storage device
Computational physics
Advanced mathematical physics
Quantum mechanics -2
Environmental sustainability of nanomaterials

SKILL ENHANCEMENT COURSES & VALUE ADDED COURSES

History of physics and its influence in society
Basic instrumentation skills
Disaster management
Programming in python
Scientific writing

MULTIDISCIPLINARY COURSES (MDC)

Environmental physics
Green energy
Archaeo physics
Beyond the sky



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