MASTER OF SCIENCE - PHYSICS

(As Per NEP-2020)

SEM - I

Major Subjects (Mandatory)

- 1) Semiconductor Physics and Devices
- 2) Electrodynamics
- 3) Mathematical Physics

Major Elective (Any One)

- 1) Complex Analysis and Numerical
- 2) Methods Astrophysics
- 3) Energy Physics
- 4) Introduction to Python
- 5) Biophysics

Practical

1) Based On Core

Compulsory Paper (RM)

1) Research Methodology

SEM - II

Major Subjects (Mandatory)

- 1) Fundamentals of Quantum Mechanics
- 2) Solid State Physics
- 3) Classical and Statistical Mechanics

Major Elective (Any One)

- 1) Practical Electronics
- 2) Advanced Optoelectronics
- 3) Plasma Physics and Space Science
- 4) Medical Physics
- 5) Data Science*Industrial Training(OJT)/

Practical

1) Based On Core

Compulsory Paper (RM)

1) Field Project/Research Project

MASTER OF SCIENCE - PHYSICS

SEM - III

Major Subjects (Mandatory)

- 1) Nuclear and Particle Physics
- 2) Advanced Condensed Matter Physics
- 3) Atomic and Molecular Physics

Major Elective (Any One)

- 1) Fundamentals of Nanoscience & Nanotechnology
- 2) Optical Fibre and Sensors
- 3) Defects in Solids
- 4) Digital Electronics and Microprocessors
- 5) Ultrasonic and its Applications

Practical

1) Based On Core

Compulsory Paper (RM)

1) *RP (Research Project)

SEM - IV

Major Subjects (Mandatory)

- 1) Advanced Quantum Mechanics
- 2 Physics of LASER & its Applications
- 3) Advanced Atomic & Molecular Physics

Major Elective (Any One)

- 1) Optics and Optical Instruments
- 2) Acoustics
- 3) Solar and Photovoltaics
- 4) Material Synthesis and Characterization
- 5) X-ray Emission and Absorption Spectroscopy

Practical

1) Based On Core

Compulsory Paper (RM)

1) *RP (Research Project)

टिप :— सत्र २०२४—२५ ला NEP 2020 नुसार प्रवेश प्रक्रिया होणार असल्यामुळे अभ्यासक्रमातील विषय बदलची माहिती प्रवेश घेतांना प्रवेश समितीकडुन आपणास कळविण्यात येईल.