# Swami Rama Himalayan University
# Himalayan Institute of Medical Sciences
# Teaching & Evaluation Scheme
# M.Sc. Medical Physics
# Academic Year-2024-25

NAAC A+

## Semester-I

| Sl. | Program | Course Code | Course Category | Subject Name | Teaching Hours/Periods/Credits | | | | | | | Sessional (Theory) | Sessional (Practical) | DDA (Theory) | DDA (Practical) | ESE | | Total | Duration / Mode | Course Attributes | | | | | | | Sustainable Development Goals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L | T | P | E (CR) | R (RP/DS) | Total | C | | | | | T | P | | | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics | |
| 1 | MSc Medical Physics | MPCC101 | CC | Basic Nuclear Physics | 3 | 0 | 4 | 0 | 0 | 7 | 5 | 1st Sessional - 50<br>2nd Sessional - 50 | 1st Sessional - 50<br>2nd Sessional - 50 | 100 | 100 | 100 | 100 | 600 | 3 hrs/Theory<br>3 hrs/Practical | √ | | √ | √ | √ | | | 7 |
| | | MPCC102 | CC | Principles of Radiological Physics | 3 | 0 | 4 | 0 | 0 | 7 | 5 | 1st Sessional - 50<br>2nd Sessional - 50 | 1st Sessional - 50<br>2nd Sessional - 50 | 100 | 100 | 100 | 100 | 600 | 3 hrs/Theory<br>3 hrs/Practical | √ | √ | √ | √ | √ | | | 3 |
| | | MPCC103 | CC | Mathematical Physics and Quantum Mechanics | 3 | 0 | 4 | 0 | 0 | 7 | 5 | 1st Sessional - 50<br>2nd Sessional - 50 | 1st Sessional - 50<br>2nd Sessional - 50 | 100 | 100 | 100 | 100 | 600 | 3 hrs/Theory<br>3 hrs/Practical | √ | | √ | √ | | | | 4 |
| | | MPCC104 | CC | Solid State Physics and Thermodynamics | 3 | 0 | 4 | 0 | 0 | 7 | 5 | 1st Sessional - 50<br>2nd Sessional - 50 | 1st Sessional - 50<br>2nd Sessional - 50 | 100 | 100 | 100 | 100 | 600 | 3 hrs/Theory<br>3 hrs/Practical | √ | | √ | √ | | | | 9 |
| | | MPCC105 | CC | Atomic and Molecular Physics | 3 | 0 | 4 | 0 | 0 | 7 | 5 | 1st Sessional - 50<br>2nd Sessional - 50 | 1st Sessional - 50<br>2nd Sessional - 50 | 100 | 100 | 100 | 100 | 600 | 3 hrs/Theory<br>3 hrs/Practical | √ | | √ | √ | | | | 9 |
| | | | | **Total** | **15** | **0** | **20** | **0** | **0** | **35** | | | | | | | | | | | | | | | | | |