



Semester Course Structure for Post M.Sc. Dip. in MEDICAL PHYSICS

Course Structure for the Program Post M.Sc. Diploma in Medical Physics

Academic Year: 2024 - 25

Department of Physics
Adamas University

Distribution of Papers Semester-wise:

| Semester I | | | | | |
|-------------------|--|------------|------------------|-----------|-------|
| Type of Course | Paper Name | Paper Code | No of Papers | Credit | L-T-P |
| Core (Theory I) | RADIATION PHYSICS & RADIATION GENERATORS | PHY21601 | 1 | 4 | 4-0-0 |
| Core (Theory II) | APPLIED MATHEMATICS AND STATISTICS | PHY21602 | 1 | 4 | 4-0-0 |
| Core (Theory III) | RADIATION DETECTION MEASUREMENTS & INSTRUMENTATION | PHY21603 | 1 | 4 | 4-0-0 |
| Core (Theory IV) | BIOLOGICAL EFFECTS OF IONIZING RADIATION | PHY21604 | 1 | 4 | 2-0-0 |
| Core (Lab) | RADIATION PHYSICS LAB | PHY22605 | 1 | 2 | 0-0-3 |
| | Total | | 4 + 1 = 5 | 18 | |

**All courses will be taught at Adamas University Campus*

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| Semester II | | | | | |
|--------------------------|--|------------|-----------------|-----------|-------|
| Type of Course | Paper Name | Paper Code | No of Papers | Credit | L-T-P |
| <i>Core (Theory I)</i> | RADIATION THERAPY | PHY21606 | 1 | 4 | 4-0-0 |
| <i>Core (Theory II)</i> | RADIATION DOSIMETRY AND STANDARDIZATION | PHY21607 | 1 | 4 | 4-0-0 |
| <i>Core (Theory III)</i> | RADIATION SAFETY TECHNIQUES | PHY21608 | 1 | 4 | 4-0-0 |
| <i>Core (Theory IV)</i> | MEDICAL IMAGING TECHNIQUES | PHY21609 | 1 | 4 | 4-0-0 |
| <i>Core (Lab I)</i> | RADIATION THERAPY & DOSIMETRY LAB | PHY22610 | 1 | 2 | 0-0-3 |
| <i>Core (Lab II)</i> | QUALITY ASSURANCE & RADIATION PROTECTION LAB | PHY22611 | 1 | 2 | 0-0-3 |
| | PROJECT | PHY24612 | 1 | 4 | |
| | Total | | 4+2+1= 6 | 24 | |

**All courses will be taught at NCRI Campus except Medical Imaging Techniques, which will be taught at Adamas University*

TOTAL CREDIT: (18 + 24) = 42