**Mangalayatan University**

**Beswan,Aligarh–202145**

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**Curriculum**

B.Voc in Radiology

**Institute of Vocational Studies**

**2022**

**TotalProgramCreditsforB.Voc**

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| --- | --- | --- |
| **S.N.** | **Semester** | **Credits** |
| **1** | **I** | **26** |
| **2** | **II** | **28** |
| **3** | **III** | **26** |
| **4** | **IV** | **24** |
| **5** | **V** | **30** |
| **6** | **VI** | **24** |
| **Total** | | **158** |

**InductionProgram**

ConductionofinductionprogramasperUGC/RegulatoryBody‘sguideline.

**CourseStructure**

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| --- | --- | --- | --- | --- |
| **I – Year** | | | | |
| **Semester-I** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| 1 | BVORAD-101 | Functional English | General Academic Component | 4 |
| 2 | BVORAD-102 | General Human Anatomy & Physiology | Skill Development Component | 4 |
| 3 | BVORAD-103 | Fundamentals of Radiology and  Imaging | Skill Development Component | 4 |
| 4 | BVORAD-104 | Orientation in Para clinical science | Skill Development Component | 4 |
| 5 | BVORAD-105 | Medical Ethics and Patients Care | Skill Development Component | 4 |
| 6 | BVORAD-106 | Basic diagnostics (Lab) | Skill Development Component | 6 |
| **Total Credits** | | | | 26 |

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| **Semester-II** | | | | | | | | |
| **S. No.** | | **Course Code** | | **Course Title** | | **Course Type** | **Credits** | |
| 1 | | BVORAD-201 | | Professional Communication | | General Academic Component | 4 | |
| 2 | | BVORAD-202 | | Human Anatomy & Physiology-II | | General Academic Component | 4 | |
| 3 | | BVORAD-203 | | Patient positioning & clinical Radiography | | General Academic Component | 4 | |
| 4 | | BVORAD-204 | | Special Radiographic Procedure | | Skill Development Component | 4 | |
| 5 | | BVORAD-205 | | Dark room techniques | | Skill Development Component | 4 | |
| 6 | | BVORAD-206 | | Radiation Physics | | Skill Development Component | 4 | |
| 7 | | BVORAD-207 | | Basic Imaging Practical Lab | | Skill Development Component | 4 | |
| **Total Credits** | | | | | | | 28 | |
| **Exit Option- Diploma in Radiology** | | | | | | | | |
| **Semester-III** | | | | | | | | | | |
| **S. No.** | | **Course Code** | | **Course Title** | | **Course Type** | | | **Credits** | |
| 1 | | BVORAD-301 | | Environment Science | | General Academic Component | | | 4 | |
| 2 | | BVORAD-302 | | Principles of CT and Mammography | | Skill Development Component | | | 4 | |
| 3 | | BVORAD-303 | | Component of CT and  Mammography | | Skill Development Component | | | 4 | |
| 4 | | BVORAD-304 | | CT procedure and Imaging Process | | Skill Development Component | | | 4 | |
| 5 | | BVORAD-305 | | Advanced CT and Mammography | | Skill Development Component | | | 4 | |
| 6 | | BVORAD-306 | | Fault analysis & Repairs - Lab | | Skill Development Component | | | 6 | |
| **Total Credits** | | | | | | | | | 26 | |

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| **Semester-IV** | | | | | |
| **S. No.** | **Course Code** | **Course Title** | | **Course Type** | **Credits** |
| 1 | BVORAD-401 | Professional Communication | General Academic Component | | 4 |
| 2 | BVORAD-402 | MRI Principle and Physics | General Academic Component | | 4 |
| 3 | BVORAD-403 | MRI Component and Procedure | General Academic Component | | 4 |
| 4 | BVORAD-404 | Ultrasound imaging | Skill Development Component | | 4 |
| 5 | BVORAD-405 | Organization and Management of  imaging department | Skill Development Component | | 4 |
| 6 | BVORAD-406 | Electronics Devices Circuits Lab | Skill Development Component | | 4 |
| **Total Credits** | | | | | 24 |

**Exit Option-Advance Diploma in Radiology**

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| **III – Year** | | | | |
| **Semester-V** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| 1 | BVORAD-501 | Economics | General Academic Component | 4 |
| 2 | BVORAD-502 | Dental radiography and BMD | General Academic Component | 4 |
| 3 | BVORAD-503 | Quality Control and Safety Measure | General Academic Component | 4 |
| 4 | BVORAD-504 | Radiation hazard and safety | General Academic Component | 4 |
| 5 | BVORAD-505 | Angiography | Skill Development Component | 4 |
| 6 | BVORAD-506 | MRI, Image Processing and Recording | Skill Development Component | 4 |
| 7 | BVORAD-507 | INTERNSHIP-I | Skill Development Component | 6 |
| **Total Credits** | | | | 30 |

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| **Semester-VI** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| 1 | BVORAD-501 | Advancement In imaging Modalities | General Academic Component | 4 |
| 2 | BVORAD-502 | Interventional Radiography | General Academic Component | 4 |
| 3 | BVORAD-503 | Doppler Ultrasound and PET Scan | General Academic Component | 4 |
| 4 | BVORAD-504 | INTERNSHIP-II/Practical Training | General Academic Component | 6 |
| 5 | BVORAD-505 | Project Report | Skill Development Component | 6 |
| **Total Credits** | | | | 24 |