**Mangalayatan University**

**Beswan, Aligarh – 202145**

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**Curriculum**

B.Voc in Cardiac Care

**Institute of Vocational Studies**

**2022**

**Total Program Credits for B.Voc**

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| --- | --- | --- |
| **S.N.** | **Semester** | **Credits** |
| **1** | **I** | **24** |
| **2** | **II** | **24** |
| **3** | **III** | **24** |
| **4** | **IV** | **24** |
| **5** | **V** | **28** |
| **6** | **VI** | **20** |
| **Total** | | **144** |

**Induction Program**

**Conduction of induction program as per UGC/Regulatory Body‘s guideline.**

**Course Structure**

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| --- | --- | --- | --- | --- |
| **I – Year** | | | | |
| **Semester-I** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| **1** | BVOCCT-101 | Functional English | General Academic Component | 4 |
| **2** | BVOCCT-102 | Human Anatomy | General Academic Component | 4 |
| **3** | BVOCCT-103 | Physiology | General Academic Component | 4 |
| **4** | BVOCCT-104 | Biochemistry | Skill Development Component | 4 |
| **5** | BVOCCT-105 | Principles of Electrocardiography | Skill Development Component | 4 |
| **6** | BVOCCT-106 | Advanced ECG & Exercise Physiology | Skill Development Component | 4 |
| **Total Credits** | | | | **24** |

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| **Semester-II** | | | | | | | | |
| **S. No.** | | **Course Code** | | **Course Title** | | **Course Type** | **Credits** | |
| 1 | | BVOCCT-201 | | Pathology | | General Academic Component | 4 | |
| 2 | | BVOCCT-202 | | Microbiology | | General Academic Component | 4 | |
| 3 | | BVOCCT-203 | | Pharmacology | | General Academic Component | 4 | |
| 4 | | BVOCCT-204 | | Fundamentals of Computer Science | | Skill Development Component | 4 | |
| 5 | | BVOCCT-205 | | Hospital Service Orientation/ Infection Control | | Skill Development Component | 4 | |
| 6 | | BVOCCT-206 | | Basic patient Care Techniques | | Skill Development Component | 4 | |
| **Total Credits** | | | | | | | **24** | |
| **Exit Option- Diploma in Cardiac Care** | | | | | | | | |
| **II-Year** | | | | | | | | | | |
| **Semester-III** | | | | | | | | | | |
| **S. No.** | | **Course Code** | | **Course Title** | | **Course Type** | | | **Credits** | |
| **1** | | BVOCCT-301 | | Applied Pathology | | General Academic Component | | | 4 | |
| **2** | | BVOCCT-302 | | Professional Communication | | General Academic Component | | | 4 | |
| **3** | | BVOCCT-303 | | Applied Microbiology | | General Academic Component | | | 4 | |
| **4** | | BVOCCT-304 | | Basic Cardiac Care Technology | | Skill Development Component | | | 4 | |
| **5** | | BVOCCT-305 | | Echocardiography Basic Techniques | | Skill Development Component | | | 4 | |
| **6** | | BVOCCT-306 | | Cardiac Emergency and CPR Techniques | | Skill Development Component | | | 4 | |
| **Total Credits** | | | | | | | | | **24** | |

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| **Semester-IV** | | | | | |
| **S. No.** | **Course Code** | **Course Title** | | **Course Type** | **Credits** |
| **1** | BVOCCT-401 | Basic Patient care | General Academic Component | | 4 |
| **2** | BVOCCT-402 | Environmental Sciences | General Academic Component | | 4 |
| **3** | BVOCCT-403 | Basics Cardiac Evaluation | General Academic Component | | 4 |
| **4** | BVOCCT-404 | Basics of Medical Disorders | Skill Development Component | | 4 |
| **5** | BVOCCT-405 | Coronary Angiography | Skill Development Component | | 4 |
| **6** | BVOCCT-406 | ICCU Techniques | Skill Development Component | | 4 |
| **Total Credits** | | | | | **24** |

**Exit Option-Advance Diploma in Cardiac Care**

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| **III – Year** | | | | |
| **Semester-V** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| 1 | BVOCCT-501 | Cardiac Evaluation | General Academic Component | 4 |
| 2 | BVOCCT-502 | Basic Cardiac Evaluation and Therapies | General Academic Component | 4 |
| 3 | BVOCCT-503 | Advanced Echocardiography Techniques | General Academic Component | 4 |
| 4 | BVOCCT-504 | Organization and services in Cath lab | General Academic Component | 4 |
| 5 | BVOCCT-505 | Cardiac Pacemakers and Defibrillators | Skill Development Component | 4 |
| 6 | BVOCCT-506 | Internship-I | Skill Development Component | 8 |
| **Total Credits** | | | | **28** |

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| **Semester-VI** | | | | |
| **S. No.** | **Course Code** | **Course Title** | **Course Type** | **Credits** |
| 1 | BVOCCT-501 | Interventional cardiology & cardiac Electrophysiology | Skill Development Component | 4 |
| 2 | BVOCCT-502 | Recent Advances in Cardiac  Imaging | Skill Development Component | 4 |
| 3 | BVOCCT-503 | Biomedical & e-Waste Management | Skill Development Component | 4 |
| 4 | BVOCCT-504 | Internship-II | Skill Development Component | 8 |
| **Total Credits** | | | | **20** |