




MGM INSTITUTE'S UNIVERSITY DEPARTMENT OF PROSTHETICS & ORTHOTICS
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI)
(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A++' Accredited by NAAC

Sector-1, Kamothe, Navi Mumbai-410 209 | Tel.: 022-27437829, 27437620

Email: mgmudpo@mgmuhs.com | Website: www.mgmudpo.edu.in

| Worksheet 1 - Program and Course Outcomes | |
|---|--|
| Step 1: Obtain course & Program outcomes | |
| Program Outcomes (PO) (As per RCI Guidelines) | |
| Program Code | Program Name |
| 101 | BPO |
| PO1 | Rehabilitational Professional |
| PO2 | Healthcare Team Leader and Member |
| PO3 | Communicator with patients and family |
| PO4 | Lifelong Learner |
| PO5 | Professional |
| PO6 | Critical thinker |
| PO7 | Researcher |
| PO8 | Digitally literate (As per workshop) |
| PO9 | Developed Holistically (As per workshop) |
| Course Outcomes (CO) | |
| Course Code | Course Name: Basic Electronics |
| BPO 106 | Basic Electronics (As per RCI Guidelines -) |
| CO1 | Introduction and discussion of Basic Concept, Introduction and terminology used Electricity. |
| CO2 | Defines Resistors and study of resistors connected in series combination and parallel combination. |
| CO3 | Explain the concept of transformers and semiconductors with examples. |
| CO4 | Determine and draw diagrams, symbols of amplifiers, their characteristics, examples and applications. |
| CO5 | To understand Open Loop and Closed loop control systems, and applications in the field of electronics, and also study of measurement parameters and their application in the field of electronics. |
| CO6 | To understand My electrodes, sensors, microcontrollers, and applications in the field of electronics |
| CO7 | To study Bio-electricity and electrical safety while handling electrical equipments. |


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| Course Outcomes (CO) | |
| Course Code | Course Name: Biomechanics-I |
| BPO 105 | Biomechanics-I (As per RCI Guidelines -) |
| CO1 | Describe biomechanical terminology to describe position and motion of the human body |
| CO2 | Utilise temporal spatial, kinematic and kinetic information to distinguish between normal and abnormal function of the upper limbs, lower limbs & Spine. |
| CO3 | Analyse the forces at a skeletal joint for various static and dynamic activities during gait cycle. |
| CO4 | Demonstrate the ability to analyse forces and moments applied to the body by Prosthetic and orthotic devices.. |
| CO5 | Explain Biomechanics of Below Knee Prostheses and Orthoses. |

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| Course Outcomes (CO) | |
| Course Code | Course Name: Biomechanics-II |
| | Biomechanics-II (As per RCI Guidelines -) |
| CO1 | Interpret Knowledge of Biomechanics of HIP & Knee joint. |
| CO2 | Classify various causes of Pathological gait and related biomechanics |
| CO3 | Describe the Trans femoral & Transtibial gait deviation and it's biomechanical causes. |
| CO4 | Relate biomechanics of various Above knee Prostheses and Through knee prostheses. |
| CO5 | Explain Various segments of gait analysis – Instrumental & Observational with its advantages & limitations. |
| CO6 | Explain Biomechanics of KAFO & HKAFO , FRO |

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| Course Outcomes (CO) | |
| Course Code | Course Name: Biomechanics-III |
| | Biomechanics-III (As per RCI Guidelines -) |
| CO1 | Interpret Knowledge of Biomechanics of upper extremity joints and Human Spine |
| CO2 | Able to extent Biomechanics of Spinal Braces for various spinal disorders. |
| CO3 | Acquire knowledge about FES, Biofeedback therapy and Myoelectric mechanism |
| CO4 | Skilled in interpreting design concepts of various Materials & knowledge of their biomechanical application. . |


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| PO3 | Effective Communicator with all stake holders |
| PO4 | Lifelong Learner |
| PO5 | Dynamic Professional |
| PO6 | Critical thinker and problem solver |
| PO7 | Emperical Researcher |
| PO8 | Proficient in use of Digital technology |
| PO9 | Holistically Development as an individual |
| PO10 | Quality Healthcare Services Provider |
| Course Outcomes (CO) | |
| Course Code | Course Name: CRDP |
| BPO 106 | CRDP (As per RCI Guidelines -) |
| CO1 | Illustrate various Musculoskeletal and Neurological conditions with respect to their introduction, etiology, symptoms, types and management. |
| CO2 | Analyse and classify the role of Each Member of Rehabilitation Team and understanding the interdisciplinary and multi-disciplinary approach. |
| CO3 | Categories various disabilities as described by the W.H.O. |
| CO4 | Define and Interpret various laws and welfare schemes for Divyangjan. |

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| PO10 | Quality Healthcare Services Provider |
| Course Outcomes (CO) | |
| Course Code | Course Name: Management & Administration |
| | Management & Administration (As per RCI Guidelines -) |
| CO1 | Explain techniques related to the design, planning, control and improvement of service and manufacturing operations. |
| CO2 | Demonstrate basic knowledge of financial management practices such as cost calculations and accounting processes. |
| CO3 | Analyse issues related to clinic management including, appointment systems and record keeping. Understand the organization of the workplace environment. |
| CO4 | Discuss the importance of quality control and workflow management. Apply appropriate inventory management protocols. |
| CO5 | Utilize the benefits associated with the use of quality assurance systems. |

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| PO10 | Quality Healthcare Services Provider |
| Course Outcomes (CO) | |
| Course Code | Course Name : Orthotics Science-I |
| BPO 108 | Orthotics Science-I (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Lower extremity and correlating it with its fuctional, clinical and radiological aspects. |
| CO2 | Explain Indications and contraindications for Foot and below knee orthoses. Demonstrate the Assessment, fabrication and fitment of Foot orthoses and Below Knee Orthoses. |
| CO3 | Utilize the Anatomical and Pathological conditions of Human Foot, Ankle and Below the Knee portion along with biomechanical principles of Foot and Below Knee Orthoses. |
| CO4 | Acquire the skills of material selection, measurements/ casting, fabrication of all types of Foot and Below Knee Orthoses. |
| CO5 | Analyse check out procedures and taking care of all types of Foot and Below Knee Orthoses. |

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| PO8 | Proficient in use of Digital technology |
| PO9 | Holistically Development as an individual |
| PO10 | Quality Healthcare Services Provider |

Course Outcomes (CO)

| Course Code | Course Name: Orthotics Science-II |
|-------------|---|
| | Orthotics Science-II (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Lower extremity and correlating it with its fuctional, clinical and radiological aspects. |
| CO2 | Explain Indications and contraindications for Knee and above knee orthoses. Demonstrate the Assessment, construction and fitment of Knee and Above Knee Orthoses. |
| CO3 | Utilize the Anatomical, Physiological and Biomechanical principles and functions of Knee and Above Knee Orthoses. |
| CO4 | Acquire the skills of material selection, measurements/ casting, fabrication of all types of Knee and Above Knee Orthoses. |
| CO5 | Analyse Check out procedures and taking care of all types of Knee and Above Knee Orthoses. |

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| PO8 | Proficient in use of Digital technology |
| PO9 | Holistically Development as an individual |
| PO10 | Quality Healthcare Services Provider |

Course Outcomes (CO)

| Course Code | Course Name: Orthotics Science-III |
|-------------|---|
| | Orthotics Science-III (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Upper Extremity and correlating it with its fuctional, clinical and radiological aspects. |
| CO2 | Explain Indications and contraindications for Upper Extremity orthoses. Demonstrate the Assessment, construction and fitment of Upper Extremity Orthoses. |
| CO3 | Utilize the Anatomical, Physiological and Biomechanical principles and functions of Upper Extremity Orthoses. |
| CO4 | Acquire the skills of material selection, measurements/ casting, fabrication of all types of Upper Extremity Orthoses. |
| CO5 | Analyse Check out procedures and taking care of all types of Knee and Above Knee Orthoses. |


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Course Outcomes (CO)

Course Code Course Name: Orthotics Science-IV

Orthotics Science-IV (As per RCI Guidelines -)

| | |
|-----|---|
| CO1 | Explain the normal gross anatomy of human spine and correlating it with its functional, clinical, cross sectional, radiological and living anatomy aspect |
| CO2 | Illustrate the Anatomical and Physiological Principles of spinal Orthoses. |
| CO3 | Utilize the Biomechanical principle and functions of spinal Orthoses. Indications and contraindications for spinal orthosis. |
| CO4 | Acquire the skills of material, measurement/ casting, fabrication and fitting of all types of Spinal Orthoses |
| CO5 | Analyse Check out procedures and taking care of all types of Spinal Orthoses. |


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| Course Outcomes (CO) | |
| Course Code | Course Name: Prosthetics Science-I |
| BPO 107 | Prosthetics Science-I (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Below Knee Lower extremity and correlating it with its fuctional, clinical, radiological and living anatomy aspect. |
| CO2 | Explain the Assessment, Socket Design Technology, Alignment, Suspension of all types of Partial Foot, Symes and Transtibial Prostheses. |
| CO3 | Utilize Biomechanical force system and principles of normal and pathological gait analysis for all types of Partial Foot, Symes and Transtibial Prostheses. |
| CO4 | Acquire the skills of material selection, measurements/ casting techniques, Modification and fabrication techniques of all types of Partial Foot, Symes and Transtibial Prostheses. |
| CO5 | Analyse the Check - out Procedure and taken care of all types of Partial Foot, Symes and Transtibial Prostheses. |

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| Course Outcomes (CO) | |
| Course Code | Course Name |
| | Prosthetics Science-II (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Above Knee Lower extremity and correlating it with its fuctional, clinical and radiological aspects. |
| CO2 | Explain Indications and contraindications for Prosthetic Knee Joints and Hip Joints. Execute the Assessment, Socket Design Technology, Alignment, Suspension, fitment and Donning and Doffing Technique of Knee Disarticulation and Transfemoral Prostheses. |
| CO3 | Utilize the Biomechanical force system and principles of normal and pathological gait analysis for all types of Knee Disarticulation and Transfemoral Prostheses. |
| CO4 | Acquire the skills of material selection, measurements/ casting techniques, Modification and fabrication techniques of all types of Knee Disarticulation and Transfemoral Prostheses. |
| CO5 | Analyse the Check - out Procedure and taken care of Prostheses of Knee Disarticulation and Transfemoral Prostheses. |


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| Prosthetics Science-III (As per RCI Guidelines -) | |
| CO1 | Explain the normal gross anatomy of Upper Extremity and correlating it with its fuctional, clinical and radiological aspects. |
| CO2 | Explain Indications and contraindications for Body Powered Prostheses, Myoelectric Prostheses and Externally Powered Prostheses. Demonstrate the Assessment, Socket Design Technology, Alignment, Harness of all types of Upper Extremity Prostheses. |
| CO3 | Utilize the Anatomical, Prosthetics socket biomechanical force system & principles and functions of Upper Extremity Prostheses. |
| CO4 | Acquire the skills of material selection, measurements/ casting, techniques, Modification, fabrication and fitment of all types of Upper Extremity Prostheses. |
| CO5 | Analyse the Check - out Procedure, Testing and Training Procedure and taken care of all types Upper Extremity Prostheses. |


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| Worksheet 1 - Program and Course Outcomes | |
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| Step 1: Obtain course & Program outcomes | |
| Program Outcomes (PO) (As per RCI Guidelines) | |
| Program Code | Program Name |
| 101 | BPO |
| PO1 | Rehabilitational Professional |
| PO2 | Healthcare Team Leader and Member |
| PO3 | Communicator with patients and family |
| PO4 | Lifelong Learner |
| PO5 | Professional |
| PO6 | Critical thinker |
| PO7 | Researcher |
| PO8 | Digitally literate (As per workshop) |
| PO9 | Developed Holistically (As per workshop) |
| Course Outcomes (CO) | |
| Course Code | Course Name: Prosthetics Science-IV |
| | Prosthetics Science-IV (As per RCI Guidelines -) |
| CO1 | Explain the normal gross anatomy of Hip Disarticulation and Hemiplevictomy amputation, correlating it with its fuctional, clinical, cross sectional and radiological aspects. |
| CO2 | Utilize the Biomechanical force system and principles of normal and pathological gait analysis for Hip Disarticulation, Trans lumbar, and Bilateral Prostheses for Above Knee Level Amputations. |
| CO3 | Explain and acquire the skills of Prescription Principle, material, measurement/ casting, Cast Modification and fabrication of Hip Disarticulation, Trans lumbar, and Bilateral Prostheses for Above Knee Level Amputations. . |
| CO4 | Analyse the Check - out Procedure and taking care of Prostheses for Hip Disarticulation, Translumbar and Bilateral Prostheses for Above Knee Level Amputations. |

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