



## MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai - 410 209

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Programme	Programme Outcome
Bachelor in Prosthetics and Orthotics	<b>The student should be able to meet the following learning objectives:</b>
	PO1 Assess the medical condition of a patient related to their orthotic or prosthetic management using appropriate investigative techniques which include patient history taking and clinical testing.
	PO2. Formulate an optimal prosthetic and orthotic solution using information from the patient assessment, other members of the health care team, medical charts, etc.
	PO3. Communicate and discuss patient goals and expectations and discuss and debate the prosthetic management with the patient, co-workers and other
	PO4. members of the health care team.
	PO5. Reliably measure and capture a positive cast or image of patient / clients' appendage while correctly positioning the body part and if appropriate apply the necessary corrective force system.
	PO6. Identify, prescribe and justify selection of appropriate materials and componentry in the fabrication of the prostheses or orthoses.
	PO7. Construct the prostheses or orthoses using appropriate fabrication techniques in preparation for the initial fitting.
	PO8. Fit the prostheses or orthoses to the patient using static and dynamic functional criteria established from the original assessment.
	PO9. Evaluate the quality of the prostheses or orthoses fit to ensure the appropriate interface contouring, force application and trim lines.
	PO10. Identify problems related to device fit and/or alignment and be able to suggest and implement appropriate correction.
	PO11. Assess and solve prosthetic or orthotic problems as part of short and long term patient care.
	PO12. Maintain accurate records of patient treatment and follow up as well as confidentiality of such information.

	PO13. Communicate effectively with patient, co-workers, and other health care professionals in such a manner that will ensure the highest quality of service and reflect a professional attitude on the part of the student.
	PO14. Educate the patient /client and/or caregiver on use, care and function of the prostheses or orthoses.



**Dr. Rajesh B. Goel**

**Registrar**

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Programme	Programme Specific Outcome
Bachelor in Prosthetics and Orthotics	At the end of the BPO Course, the learner shall be able :
	1. To assess, prescribe and provide comprehensive prosthetic and orthotic
	management to the individual and the community appropriate to his/her position as a
	member of the health care team.
	2. Be competent to take preventive, supportive, corrective and rehabilitative steps in
	respect to the commonly encountered problems related to prosthetics and orthotics.
	3.To carry out Evidence Based Practice in prosthetics and orthotics
	4.Appreciate the psycho-social, cultural, economic, and environmental factors
	affecting health, and develop humane attitude towards the patients/relatives, in discharging one's professional responsibilities
	5.Be familiar with the various National policies and acts related to empowerment of Persons with disabilities
	6. Acquire basic management & administrative skills in the areas of materials,
	financial and human resources related to prosthetics and orthotics
	7. Develop the communication skills to establish effective communication with the stake holders

	8. Practice prosthetics & orthotics ethics in patient care, service delivery, and research.
	9. Develop attitude for self-learning and acquire necessary skills including the use of appropriate technologies.



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Program	Course	Course Outcome (Please refer RCI website links provided above)
Bachelor in Prosthetics & Orthotics	Anatomy	<p>Students are able to meet the following Learning Objectives:</p> <ol style="list-style-type: none"> <li>1. Explain the process of human growth and development.</li> <li>2. Demonstrate competence in identifying and differentiating between surface anatomical structures of the lower limb, upper limb , spine and trunk.</li> <li>3. Understand the inter-relations between the systems described.</li> <li>4. Describe and relate the structure and function of the upper and lower limbs to clinical pathologies.</li> </ol>
Bachelor in Prosthetics & Orthotics	Physiology	<p>Students are able to meet the following Learning Objectives:</p> <ol style="list-style-type: none"> <li>1. Describe and explain cell biology.</li> <li>2. Explain and give examples of basic tissues, their properties and structure</li> <li>3. Compare and contrast the structure and properties of biological substances.</li> <li>4. Describe parts and organs of the body by systems.</li> </ol>
Bachelor in Prosthetics & Orthotics	Workshop Technology & Material Science	<p>Students are able to meet the following Learning Objectives:</p> <ol style="list-style-type: none"> <li>1. Be familiar with the occupational health and safety policy and procedures in the workplace.</li> <li>2. Demonstrate proficiency in the use of hand tools and machine tools.</li> <li>3. Able to Explain the important properties of various types of materials: metals, ceramics, polymers, and composites.</li> <li>4. Describe the basis for the selection of different materials for specific prosthetic</li> </ol>

		and orthotic applications. 5. Demonstrate knowledge of toxicity and safety issues associated with the use of specific materials. commonly used in the fabrication of Prostheses & Orthoses.
		Students are able to meet the following Learning Objectives: 1. Demonstrate an ability to utilize appropriate terminology and units to describe mechanical principles. 2. Apply the mechanical principles of statics and dynamics to quantify and explain linear and angular motion of the human body. 3. Apply the concepts of stress and strain in the analysis of basic structural elements. 4. Determine and draw diagrams for internal forces and bending moments (axial forces, shear forces, moments and torques) in a structural member. 5. Discuss the concepts of work energy and power.
Bachelor in Prosthetics & Orthotics	Applied Mechanics & Strength of Materials	Students are able to meet the following Learning Objectives: 1. Demonstrate an ability to apply principles of tissue mechanics to explain the principles of P&O treatment, (involving various force systems) and the
Bachelor in Prosthetics & Orthotics	Biomechanics I	practical problems encountered in Prosthetics and Orthotics. 2. Use biomechanical terminology to describe position and motion of the human body. 3. Utilise temporal spatial, kinematic and kinetic information to distinguish between normal and abnormal function of the upper limbs, lower limbs & Spine. 4. Analyse the forces at a skeletal joint for various static and dynamic activities. 5. Demonstrate the ability to analyse forces and moments applied to the body by Prosthetic and Orthotic devices. 6. Apply biomechanical principles to generate optimal solutions to clinical problems in Prosthetics and Orthotics.
		Learning The student should be able to meet the following learning objectives:
Bachelor in Prosthetics & Orthotics	Basic Electronics	1. Explain basic concept of electricity and electronics covering following:

		DC circuits, inductance and capacitance, AC circuits, power, supplies, amplifiers,
		feedback, interference rejection techniques, myoelectrodes and bioelectricity
		2.Explain eelectronics measuring system
		3.Explain safety practice of electricity
		Students are able to meet the following Learning Objectives: 1. Compare and contrast strategies for clinical assessment of patients and describe appropriate investigative techniques including patient's history taking and physical examination. 2. Recognize and describe the signs and symptoms of the most common pathologies which require prosthetic solutions including, etiology, clinical presentation, prognosis and appropriate device management. 3. Distinguish between the physical characteristics of the limbs and discuss the relative implication for device design. 4. Describe and compare temporospatial and kinematic characteristics of normal and pathological gait and use this information to justify the selection and design of appropriate devices. 5. Discuss biomechanical force systems and use these principles in generating an appropriate Prosthetic prescription. 6. Describe the mechanics of materials and be able to apply these concepts to the design and construction of devices. 7. Compare and contrast the functional characteristics of Prosthetic components. 8. Formulate appropriate Prosthetic and Orthotic prescriptions for wide range clinical situations.

Bachelor Prosthetics & Orthotics	in Prosthetics Science - I	Students are able to meet the following Learning Objectives: 1.Compare and contrast strategies for clinical assessment of patients and describe appropriate investigative techniques including patient history taking and physical examination. 2.Recognize and describe the signs and symptoms of the most common pathologies which require Orthotic solutions including, etiology, clinical presentation, prognosis and appropriate device management. 3.Demonstrate empathy between Orthotic theory and the environment in which the patient is situated. 4.Distinguish between the physical characteristics of the limbs and discuss the relative implication for device design. 5. Describe and compare temporospatial and kinematics characteristics of normal and pathological gait and use this information to justify the selection and design of appropriate devices. 6.Discuss biomechanical force systems and use these principles in generating an appropriate Orthotic prescription. 7.Describe the mechanics of materials and be able to apply these concepts to the design and construction of devices. 8.Compare and contrast the functional characteristics of orthotic components. 9.Formulate appropriate orthotic prescriptions for
Bachelor Prosthetics & Orthotics	in Orthotics Science 1	Students are able to meet the following Learning Objectives: 1. Derive free body diagrams in order to describe clinical problems and generate treatment solutions.
Bachelor in Prosthetics & Orthotics	Engineering Drawing	The student should be able to meet the following learning objectives.
Bachelor in Prosthetics & Orthotics	Pathology	1. Describe the basic pathological processes that underlie disease (eg: cell
		injury and necrosis, inflammation and healing, ischemia, infarction and
		neoplasia);
		2. Apply knowledge of basic pathological processes to explain the etiology,
		pathogenesis, structural and functional manifestations of diseases commonly
		encountered in clinical practice, including relevant conditions affecting



		locomotion and body systems (musculoskeletal system and nervous system, vascular system).
		The student should be able to meet the following learning objectives:
Bachelor in Prosthetics & Orthotics	Orthopaedics, Amputation Surgery &	1. Have an understanding of different clinical conditions that may indirectly impact on the patients' ability to successfully rehabilitate using the device.
		2. Explain the management of different disabling conditions.
		3. Explain the principles of amputations and revision amputation, types and techniques
		4. Explain the post operative care of the stump and stump hygiene
		5. Describe the stump dermatology and the common skin diseases and management.
		6. Describe and fabricate the post operative fitting in the lower extremity.
		7. Describe common surgical technique and how they may influence prosthetics and Orthotics fit and design
		The student should be able to meet the following learning objectives to
Bachelor in Prosthetics & Orthotics	Community Rehabilitation and Disability	1. recognise members of the clinic team and identify benefits associated with a team approach
		2. Describe and discuss theoretical principles of Physiotherapy & Occupational Therapy
		3. Describe theories related to the psychology of loss and disability;
		4. Discuss the social causes of disability in India and the link between poverty and disability.
		5. Reflect and analyze on their attitude/values and attitudes towards persons with disabilities, their families and the community (Socio-cultural and religious)
		6. Explain the UN convention rights and role as Prosthetist and Orthotist
		The student should be able to meet the following learning objectives:
Bachelor in Prosthetics & Orthotics	Biomechanics II	1. Demonstrate an ability to apply principles of tissue mechanics to explain the principles of P&O treatment, (involving various force systems) and the

		practical problems encountered in prosthetics and orthotics
		2. Use biomechanical terminology to describe position and motion of the human
		body
		3. Discuss mechanical principles governing human motion
		4. Utilise temporospatial, kinematic and kinetic information to distinguish
		between normal and abnormal function of the upper limbs, lower limbs &
		Spine.
		5. Analyse the forces at a skeletal joint for various static and dynamic activities
		6. Demonstrate the ability to analyze forces and moments applied to the body
		by prosthetic and orthotic devices.
		7. Apply biomechanical principles to generate optimal solutions to clinical
		problems in prosthetics and orthotics.
		8. Understand the concepts of differentiation and integration and evaluate
		derivatives and integrals of a function
		The student should be able to meet the following learning objectives
Bachelor in Prosthetics & Orthotics	Psychology and Sociology	1. Recognise members of the clinic team and identify benefits associated with a
		team approach
		2. Describe and discuss theoretical principles of rehabilitation;
		3. Reflect and analyse on their attitude/values and attitudes towards persons
		with disabilities, their families and the community (Socio-cultural and religious)
		4. Explain the different approaches to rehabilitation.
		5. Explain different component of CBR and the guiding principles of CBR
		implementation.
		6. Explain P & O role in a CBR programme
		Knee Joints: Different types of Endoskeletal and exoskeletal knee joints - Single
Bachelor in Prosthetics & Orthotics	Prosthetics Science - II	axis knee joints, Polycentric knee joints, Free knee, Constant friction knee joints,
		Variable friction Knee joint, microchip control knee, hydraulic knee joint, swing Phase
		control knee joints, Stance Phase control knee joints etc.

		Hip Joints: For above knee as well as for hip disarticulation/ hemi- pelvectomy – all
		types of hip joints especially single axis and Swivel type.
		Through Knee Prosthesis: Various types of through knee prosthesis - Through
		knee prosthetic Components. Materials used for through knee prosthesis. Casting
		techniques for through knee prosthesis, Cast modification, Fabrication Techniques of
		through hip prosthesis, through knee Gait analysis and deviations, Through knee
		Check-out Procedures.
		Trans Femoral Prosthesis: Types of Trans Femoral Prosthesis. Trans femoral
		Prosthetic Components. Trans Femoral Socket designs. Casting and measurement
		techniques, Cast modification, Fabrication techniques of Trans Femoral socket.
		Various types of suspension used in Trans Femoral Prosthesis
		Gait Deviations and Analysis: Trans Femoral Gait Analysis, Trans Femoral Checkout
		Procedures,
		Orthotics Components: Prescription principles of various types of Knee Orthoses
Bachelor in Prosthetics & Orthotics	Orthotics Science - II	(KO), Knee Ankle Foot Orthoses (KAFO), Hip Knee Ankle foot Orthoses (HKAFO).
		RGO & ARGO Orthoses
		All types of K.A.F.O., H.K.A.F.O. FRO, RGO & ARGO etc. andalso Orthoses for
		management of C.D.H., C.P., Paraplegics, Legg Calve perthes diseases, Spina
		Bifida, Leprosy and Hemiplegia etc.
		Fabrication: Cast and measurement techniques, appropriate selection of materials
		and components, cast modification, fabrication and alignment technique, using of
		different technologies – its advantages and disadvantages, Accommodation of limb
		length discrepancy while designing orthosis, Gait analysis and checkout procedures.

		Orthotics: Orthoses for sports injury, Reciprocating Gait Orthoses (RGO), Hip
		Guidance Orthoses(HGO), Fracture Cast Bracing, Swivel walker, orthopodium/
		Parapodium. Weight relieving orthoses, Extension orthoses or Ortho-prostheses,
		PTB. Orthoses Orthotic management of Rickets and Knee Arthritis
		<b>Learning objective of : BPO208</b>
Bachelor in Prosthetics & Orthotics	Pharmacology	The student should be able to meet the following learning objectives:
Bachelor in Prosthetics & Orthotics	Computer Science and Graphical Communication	1. Describe the advanced application of computer in prosthetics and orthotics field.
		2. Design various components for prosthetics and orthotics use.
		3. Make use of computer knowledge in the statistics data analysis and documentation.
		4. Describe the principles of computer aided design(CAD) & computer aided
		manufacture(CAM)
		The Students should be able to meet the following objectives : -
Bachelor in Prosthetics & Orthotics	Biomechanics - III	Biomechanics of Hand, wrist complex, elbow complex & shoulder complex.
		Upper Limb: Grasp patterns, grasp forces, mechanical replacement of hand function,
		augmentation of deficient hand function, upper limb prosthetic socket biomechanics
		- all types, Orthosis biomechanics, application of external power, myoelectric control
		of external power and usage of devices.
		Control systems: Introduction to control theory. Application in Prosthetics and
		Orthotics of functional electrical stimulation (FES), hybrid orthosis, myoelectrics and
		bio-feedback.
		Spinal Biomechanics: Motions of the spine, Biomechanics of different region in spinal
		column, Biomechanics Inter vertebral disk, Lumbar Spine loading during normal
		activities and effects of Orthosis on this loads, Biomechanical Principles of spinal
		orthosis, Biomechanics of Corsets, Cervical/ thoraco/lumbar/sacral spinal orthosis.
		Biomechanics of scoliosis correction using different technologies and especially
		using Spinal orthosis.

		Design concept part-I: Buckling, theories in failure/ fatigue/stress concentrations, connections, fluid mechanics and beam deflection.
		Design concept part-II: Shear force and bending moment diagrams, centroids, 2nd
		moment of area and mass, theorem of parallel axes, bending stress, torsional stress
		of circular shafts, combined axial and bending stresses. Combined and torsional
		stresses, . Design test standards/materials/Philadelphia Loads/ISO.
		Design calculations for P&O devices.Practical: Different ways of design tests, use of
		FES and myoelectric control system in P&O devices.
		Combined and torsional stresses, combined axial bending torsional stresses. Open
		and closed helical springs, beam deflection. Designtest
		standards/materials/Philadelphia Loads/ISO. Design calculations for P&O
		devices/BIS. Column of the spine, biomechanics of spinal injuries, follower load,
		Euler's theory of buckling
		The student should be able to meet the following learning objectives:
Bachelor in Prosthetics & Orthotics	Assistive Technology	1. Explain the prescription of commonly used mobility aids like crutches, walking
		stick, and walkers. Assess and prescribe the best possible mobility solution
		for a wheelchair user
		2. Carry out repair and maintenance of wheelchair
		3. Describe the correct use of the wheelchairs, transfers and various
		modifications of wheel chairs
		4. Train users to make the best use of their wheelchair.
		5. Assess, prescribe and fabricate different types of developmental aids
		6. Describe the analysis of gait with the related mobility aids.
		The student should be able to meet the following learning objectives:

Bachelor in Prosthetics & Orthotics	Research Methodology and Bio Statistics	1. Explain the process, types, design, needs, principles of research
		2. Formulate an appropriate research plan in order to solve a clinical problem
		3. Examine the concepts of estimation and hypothesis testing with applications
		to population proportions, means, variances
		4. Describe the sampling, data collection and processing of data
		5. Examine the data by using different measures
		6. Perform effective descriptive statistical analysis as well as statistical inference
		for a variety of mainstream applications
		7. Use appropriate empirical and probability distributions to model data.
		8. Conduct a basic research study in order to solve a clinical problem
		The student should be able to meet the following learning objectives: Upper Limb:
Bachelor in Prosthetics & Orthotics	Prosthetics Science - III	Control systems:
		Upper limb prosthetics:
		Partial Hand: passive, cosmetics and functional types which also includes silicon
		prostheses.
		Prescription Criteria, for following level of amputation types of Partial Hand amputation, Wrist Disarticulation, Trans Radial Amputation, Elbow disarticulation, Trans Humeral Amputation, Shoulder Disarticulation, Four Quarter Amputation.
		Casting and measurement techniques, Cast modifications, Fabrication techniques, alignment techniques, Harnessing, Cable control system and suspension mechanisms, Fitting, donning and doffing techniques. Checkout procedures, Testing and Training for all above mentioned levels of amputation.

		Fabrication techniques of – single wall and double wall, alignment techniques, Harnessing and suspension mechanisms, – body powered and externally powered, Myo Electric Prostheses, Fitting, donning and doffing techniques. Checkout procedures, Testing and Training.
		Control systems: Introduction to control theory, application of Functional Electrical
		Stimulation (FES) in Orthotics,
		Upper Limb Orthotics: Objectives of splinting and principles.
Bachelor in Prosthetics & Orthotics	Orthotics Science -III	Orthotic management of rheumatoid arthritis and burns etc.
		Immobilization/ mobilization,
		Appliances for flail elbows: Measurement/casting and
		Fabrication of Shoulder Orthoses, The shoulder joint braces and splints, Abduction
		splints and braces, Traction splint of Humerus, All types of Shoulder Elbow Wrist and
		Hand Orthoses which also includes both body powered and externally powered. All
		types of fracture Orthoses, Temporary splinting, Feeder and other assistive
		appliances.
		Upper Limb: Orthosis biomechanics, application of external power, myoelectric
		control of external power and usage of devices.
		Principles of Administrative and Management structure, Industrial
		Management, Principles of good organization,
		Type of Organizational setup Workshop Administration and management.
Bachelor in Prosthetics & Orthotics	P & O Workshop Management	Management: Introduction, Discipline, Security, distribution of work, Work sheet,
		Time sheet and staff Welfare. Material Management: Store and store organization.
		Inventory Control. Purchase organization. Introduction to cost accounting. Use of
		computer for effective store management.
		Safety: Industrial accidents, safety and hazards Planning: Planning of Prosthetics
		and Orthotics Departments at various levels, all types of various scales. Layout,

		plant Layout. Costing, billing, documentation especially development of recording
		system to manage individual's records. Leadership. Human resource management &
		Environmental Science: Hospital waste disposal. Role of the International Health
		Agencies
		Economics: Business management practices such as cost calculations, accounting
		process and budgeting address issues related to clinic management including,
		appointment systems and record keeping, Quality control and the use of quality
		assurance system Appropriate code of ethical behaviour of P & O Professionals
		Introduction of administration, Nature and scope of administration, How to be an
		effective administrator, Principles of administration and its applications to Prosthetics
		and orthotics setup. Rules of Professional Conduct.
		The Students should meet the following objectives :
		1.Fabrication of Prosthesis for through hip, double or multiple amputees on
		model/ mannequins,
		2.Fitting of Prosthesis in cases and developing and/or adapting
		new designs.
		Spinal Orthoses: Historical development of spinal orthoses. Anatomical and
		Physiological Principles of construction and fitting of spinal Orthoses. Biomechanical
		principle and Functions of spinal Orthoses. Indications and contraindications for
		spinal orthosis
		Cervical Orthoses: Principle, material, measurement/ casting, fabrication of all
Bachelor in Prosthetics & Orthotics	Prosthetics Science - IV	types of Cervical Orthoses especially different types of cervical collar, semi-rigid/rigid
		cervical orthoses both temporary and permanent. Cervical Traction, HALO traction
		and various types.
Bachelor in Prosthetics & Orthotics	Orthotics Science -IV	Thoraco-Lumbo-Sacral Orthoses: Flexible spinal Orthoses. Rigid spinal orthoses.



		Principle, material, measurement/ casting, fabrication of all types of Thoraco Lumbo
		sacral orthoses (TLSO) especially all types of orthoses for scoliosis& Kyphosis. All
		types of under arm orthoses and variants. Various types of Immobilisers, Fitting,
		donning and doffing techniques. Checkout procedures, Testing and Training. Lumbo
		sacral Orthoses: Principle, material, measurement/ casting, fabrication of all types of
		Lumbo sacral orthoses (LSO) especially Corsets and all types of orthoses for
		Lordosis and scoliosis. Pelvic traction and its uses. Cranial Orthoses Orthotic
		management of spinal deformities / injuries. Orthotic management of Pott's spine
		The student should be able to meet the following learning objectives:
		1. Explain techniques related to the design, planning, control and improvement
		of service and manufacturing operations.
		2. Demonstrate basic knowledge of financial management practices such as
		cost calculations and accounting processes.
		3. Address issues related to clinic management including, appointment systems
		and record keeping.
		4. Discuss the importance of quality control and workflow management.
		5. Apply appropriate inventory management protocols
Bachelor in Prosthetics & Orthotics	Management and Administration	6. Understand and discuss the benefits associate with the use of quality
		assurance systems
		7. Understand the organization of the workplace environment.

		<p>The Student should meet the following objective :</p> <ol style="list-style-type: none"> <li>1. Formulate Appropriate Prosthetic and Orthotic Prescription for any range of clinical situation</li> <li>2. Should represent a case study for any prosthetic case</li> <li>3. Should give solution for assessment to final prescription for any level of amputation.</li> <li>4. Casting and measurement techniques, Cast modifications, Fabrication techniques, alignment techniques, Harnessing, Cable control system and suspension mechanisms, Fitting, donning and doffing techniques. Checkout procedures, Testing and Training for any levels of amputation.</li> </ol>
		<p>The Student should meet the following objective :</p> <ol style="list-style-type: none"> <li>1. Formulate Appropriate Orthotic Prescription for any range of clinical situation</li> <li>2. Should represent a case study for any orthotic case</li> <li>2. Give solution for assessment to final prescription for any physical impairment</li> <li>3. Casting and measurement techniques, Cast modifications, Fabrication techniques, alignment techniques, Fitting, donning and doffing techniques. Checkout procedures, Testing and Training for any orthotic devices.</li> </ol>
Bachelor in Prosthetics & Orthotics	Prosthetics Clinical Practice	<p>The Student should be able to meet following objectives : -</p> <p>shall take a project work under 1. supervision of a guide. Project work</p>
Bachelor in Prosthetics & Orthotics	Orthotics Clinical Practice	<p>has to be well documented and presented in essay form. The major focus will be</p>
Bachelor in Prosthetics & Orthotics	Project Work	<p>trainee's original work which she or he has to present prior to final examination. The</p>
		<p>subject and the guide should be chosen within four weeks from the day of admission</p>
		<p>to the fourth year.</p>



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