

**Prosthetics and Orthotics**

S.N.	Title	Content	Target Group	Resource Persons	No. of Days
1	Evidence Based Practice in the Management of Spinal Cord Injury Patient	Medical aspects Orthoses Therapeutic management	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	1. Physiatrist/ Orthopaedic Surgeon 2. Senior Prosthetics & Orthotics faculty (national or International)	3days
2	Functional Fracture Bracing	Fracture, classification of fracture & indication of fracture bracing, History of fracture bracing, Principles of fracture bracing & mechanism of orthotic management	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	1. Physiatrist/ Orthopaedic Surgeon 2. Senior Prosthetics & Orthotics faculty (national or International)	3days
3	Evidence Based Practice in Orthotic Management of Neuropathic feet	Orthotics fabrication & fitting	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	2days
4	Advancement in Orthotic Management of burn Patients (Prevention and Cure)	Prevention & correction of progressive deformity by orthoses. Pressure garments etc.	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	2days
5	Orthotic Management of Sports related injuries.	Medical aspects Fabrication & fitting of recent advance orthoses in sports injuries	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	2days
6.	Neurophysiologic	Medical aspects	Only Diploma with 2	1. Physiatrist/	3days

	Orthoses/ Prosthesis	Fabrication & fitting of recent advance orthoses in neurophysiologic orthoses	years experience/Degree & above qualification in Prosthetics & Orthotics	Orthopaedic Surgeon 2. Senior Prosthetics & Orthotics faculty/ professionals (national or International)	
7.	CAD-CAM in Prosthetics & Orthotics	Scanning, carving & fitting of various types of prosthesis & orthoses	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	3days (In case of hands on - 5 days)
8.	Evidence Based Practice in Cosmetic/ Aesthetic restoration	Casting & fabrication techniques	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	2days
9.	Advanced Prosthetic & Orthotic Knee & Hip joint	Microprocessor prosthetic & orthotic knee joint	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty (national or International)	2days
10	Smart(Advanced) material in P & O field	Different types of smart material such as Piezoelectric material Electro-rheostatic and Magneto-rheostatic Shape memory alloys and Shape memory polymers Magnetostrictive Magnetic shape memory pH-sensitive polymers etc.	Only Diploma with 2 years experience/ Degree & above qualification in Prosthetics & Orthotics	Faculty of material science /technology from IIT/ Engineering Colleges etc. Senior Prosthetics & Orthotics faculty/ professional (National or International)	2days
11	Ergonomics principle in P & O field	Implementation of ergonomics principles in & P& O field	Only Diploma with 2 years experience/	Senior Prosthetics & Orthotics faculty	2days

			Degree & above qualification in Prosthetics & Orthotics	(national or International)	
12	Evidence Based Practice	Management of multiple loco motor disabled persons or management of limb deficient child etc.	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days
13	Pedagogy	A to z of teaching & learning	Teachers of all discipline of RCI run degree & master courses	Senior faculty in the discipline from IIT or other institutions	3days
14	Advancement in upper extremity prosthesis	Fabrication & fitment of microprocessor & touch bionic, etc. prosthesis	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days
15	Robotics in P & O field	Robotic technology	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Faculty of Electronics from IIT/ Engineering Colleges etc. Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days
16	Advance gait analysis technology in P & O field	Biomechanics of normal & pathological gait, Biomechanics of amputee gait Recent equipments available for gait analysis	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Physiatrist Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days
17	Advancement in Pediatric Orthoses	Congenital & acquired disorders, spinal injuries etc.	Only Diploma with 2 years experience/Degree & above qualification in	Orthopaedic Surgeon/ Physiatrist Senior Prosthetics &	3days

			Prosthetics & Orthotics	Orthotics faculty/ professional (National or International)	
18	Latest trend Socketology	Overview of recent development in the socket technology for various amputation levels Biomechanics of sockets and its clinical applications	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days
19	Advancement in Spinal Orthoses	Biomechanics of Spine, role of recent developed orthoses in the management of deformities/ conditions	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	3days