

Prosthetics & Orthotics

S.N.	Topic	Contents	Target Group	Resource persons	Duration of CRE
1.	Recent advancement 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)	3 days
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. Orthopaedic Surgeon 2. Senior Prosthetics & Orthotics faculty (national or International)	3 days
3.	Recent advancement 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)	3 days
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)	2 days
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)	2 days
6.	Neurophysiologic Orthoses/ Prosthesis	Medical aspects Fabrication & fitting of recent advance orthoses in neurophysiologic orthoses	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	1. Physiatrist/ Orthopaedic Surgeon 2. Senior Prosthetics & Orthotics faculty/ professionals (national or International)	3 days
7.	CAD-CAM in Prosthetics &	Scanning, carving & fitting of various types of prosthesis &	Only Diploma with 2 years experience/Degree & above	Senior Prosthetics & Orthotics faculty/ professional (National or	3 days (In case of

Prosthetics & Orthotics

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	Orthotics	orthoses	qualification in Prosthetics & Orthotics	International)	hands on - 5 days)
8.	Recent advancement in Cosmetic/ Aesthetic restoration	Casting & fabrication techniques	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	2 days
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/ professional (National or International)	2 days
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)	2 days
11.	Ergonomics principle in P & O field	Implementation of ergonomics principles in & P& O field	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Senior Prosthetics & Orthotics faculty/ professional (National or International)	2 days
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)	3 days

Prosthetics & Orthotics

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13.	Pedagogy in P & O	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	3 days
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)	3 days
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)	3 days
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)	3 days
17	Advancement in Pediatric Orthoses	Congenital & acquired disorders, spinal injuries etc.	Only Diploma with 2 years experience/Degree & above qualification in Prosthetics & Orthotics	Orthopaedic Surgeon/ Physiatrist Senior Prosthetics & Orthotics faculty/professional (National or International)	3 days
18.	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)	3 days
19.	Advancement in Spinal Orthoses	Biomechanics of Spine, role of recent developed orthoses in	Only Diploma with 2 years experience/Degree & above	Senior Prosthetics & Orthotics faculty/professional (National or	3 days

Prosthetics & Orthotics

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		the management of deformities/ conditions	qualification in Prosthetics & Orthotics	International)	