

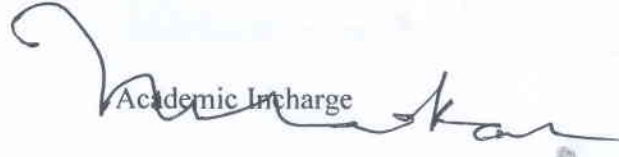
All India Institute of Physical Medicine and Rehabilitation
Time table for I – MPO for Academic Year 2021-2022

DAY / TIME	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9.00 a.m. to 10.00 a.m.	UNDER GRADUATE TEACHING PROGRAMME	Research Methodology & Biostatistics	CLINICAL POSTING IN P & O SECTIONS	Biostatistics & Kinesiology	Mechatronics	FOLLOW – UP CLINICS
10.00 a.m. to 11.00 a.m.		PRACTICALS IN PROSTHETICS		ADVANCES IN LOWER – EXTREEMITY PROSTHETICS & CLINICAL GAIT ANALYSIS		
11.00 a.m. to 12.00 p.m.			Advances In Lower – Extremity Orthotics & Clinical Gait Analysis		P & O PRACTICALS	SEMINARS IN PROSTHETICS AND ORTHOTICS
12.00 p.m. to 1.00 p.m.	.LUNCH BREAK					
1.00 p.m. to 1.30 p.m.	WARD ROUNDS	P & O STUDENTS CLINIC (B.P.O)	CASE CONFERENCE	DIABETICS/ CEREBRAL PALSÝ CLINIC	P & O STUDENTS CLINICS (B.P.O)	-----
1.30 p.m. to 2.15 p.m.						
2.15 p.m. to 3.00 p.m.						
3.00 p.m. to 4.00 p.m.						

M. S. Chakraborty
Academic Incharge

Government of India
All India Institute of Physical Medicine and Rehabilitation
Time table for Final – MPO for Academic Year 2021-2022

DAY / TIME	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9.00 a.m. to 10.00 a.m.	CLINICAL POSTING IN PROSTETIC SECTION	Advances in upper Extremity Prosthetics	CLINICAL POSTING IN ORTHOTIC SECTION	Advances in Spinal Orthotics	UNDER GRADUATE TEACHING PROGRAMME	Pedagogy in P & O Education & Administration, Management & Ethical Issues
10.00 a.m. to 11.00 a.m.		Advances in Upper Extremity Orthotics		DISSERTATION WORK		DISSERTATION WORK
11.00 a.m. to 12.00 noon		PROSTETIC		ORTHOTIC		
12.00 noon to 1.00 p.m.		PRACTICALS		PRACTICALS		
1.00 p.m. to 1.30 p.m.	LUNCH BREAK					
1.30 p.m. to 2.15 p.m.	WARD ROUNDS	P & O STUDENT	DISSERTATION WORK	SEMINARS ON VARIOUS TOPICS PRESCRIBED IN SYLLABUS	P & O STUDENTS CLINIC (B.P.O)	-----
2.15 p.m. to 3.00 p.m.		CLINICS				
3.00 p.m. to 4.00 p.m.		(B.P.O.)				


 Academic Incharge

Annexure – PART III (19A5)

**LIST OF CONFERENCES/SEMINARS/WORKSHOPS ATTENDED BY CORE FACULTY
(MPO)**

Sr. No	Conference/Seminar/Workshop	Names of Attendees	Location/Dates
1.	20th Annual National Conference of the Orthotics & Prosthetics Association of India	Mr. A.G.Indalkar Mr. D.P.Prabhu Mrs. U.M.Naukudkar	Bhubaneshwar from 7 th - 10 th February 2020
2.	Webinar on Advances in Adolescent Idiopathic Scoliosis	Mr.AG.Indalkar	Composite Rehabilitation Centre (CRC) Gorakhpur under National Institute of Empowerment of Persons with Multiple Disabilities (NIEPMD) on 29 th September 2021.
3.	Ischial Containment Socket Technology for Trans-Femoral Prosthesis	Mrs. Urmila Naukudkar	Online Course organised by National Institute of Persons with Multiple Disabilities (NIEPMD) in collaboration with International Committee of the Red Cross (ICRC) and Human Study, Germany Theory Sessions: 3 rd February to 11 th March 2020 and Practical Sessions: 1 st October 2021 to 6 th December 2021
4.	Current Rehabilitation Methods for Cerebral Palsy	Mrs. Urmila Naukudkar	Organized by 29 th October International Committee of the Red Cross (ICRC), Human Study, Germany; International Society for Prosthetics & Orthotics (ISPO) and Orthotics & Prosthetics Association of India (OPAI) from 29 th October 2021 to 2 nd December 2021
5.	Grippy : Affordable Semi-Bionic Hand that Feels like a Real Hand	Mr. Makarand Saraf Mrs. Urmila Naukudkar	Online Webinar conducted by Indian Association of Assistive Technologists on 27 th November 2021

6.	CRE on Early Intervention in Congenital Anomalies	Mrs. Urmila Naukudkar	Online Webinar organized by the National Institute of Locomotor Disabilities (Divyangjan), Kolkata on 10 th and 11 th February 2022
7.	CRE on Functional Orthoses in Fracture Management	Mrs. Urmila Naukudkar	Online Webinar organized by the National Institute of Locomotor Disabilities (Divyangjan), Kolkata on 3 rd and 4 th March 2022
8.	CRE Webinar on Early Intervention in Congenital Anomalies	Mrs. Urmila Naukudkar	National Institute of Locomotor Disabilities, Kolkata on 10 th and 11 th February 2022
9.	CRE webinar on Functional Orthoses in Fracture Management	Mrs. Urmila Naukudkar	National Institute of Locomotor Disabilities, Kolkata on 3 rd and 4 th March 2022
10.	XXVI National Conference Of The Orthotics And Prosthetics Association Of India	Mr. A.G. Indalkar	28-30 March 2022, Panjim Convention Centre, Goa
11.	Online CRE on Lower Extremity Exoskeleton System	Mr. Makarand Saraf	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 7 th and 8 th March 2022
12.	Online CRE on Advancements in Spinal Orthotics	Mrs. Urmila Naukudkar	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 25 th and 26 th April 2022


Lecturer (P&O)


Lecturer & HOD (P&O)


Director

ANNEXURE -PART III (4 & 5)

Scientific Papers Presented by Core Faculty MPO

Sr. No	Title	Conference/CRE	Presenter	Author
1	Need Based Product Design	CRE on "Need Based Design" At MGM Institute of Health Sciences, Navi Mumbai on 6 th January 2020	Mrs. U.M.Naukudkar	Mrs. U.M.Naukudkar
2	Challenges in the Ortho-Prosthetic Management of Congenital Pseudo-Arthrosis of Tibia	25 th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneswar from 7 th -9 th February 2020	Mr. A.G.Indalkar	Mr. A.G.Indalkar
3	To Study the Efficacy of Custom Moulded Insoles in Reducing Peak Plantar Pressure and Improving Gait Parameters in Diabetic Patients	25 th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneswar from 7 th -9 th February 2020	Mrs. U.M.Naukudkar	Mrs. U.M.Naukudkar
4	Development of an Externally powered prosthetics Elbow Unit for Humeral Amputees	25 th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneswar from 7 th -9 th February 2020	Mrs. Deepshikha Raut	Mrs. Deepshikha Raut
5	Advances in Orthotics & Assistive Technology in Neuro Rehabilitation	Fourth Asia Oceanian Congress of Neuro Rehabilitation 2021	Mr. Lukesh Bhuyar	Mr. Lukesh Bhuyar
6	Keynote address on "Advances in Orthotic Management of Adolescent Idiopathic Scoliosis (AIS)"	Webinar on Advances in Adolescent Idiopathic Scoliosis organized by Composite Rehabilitation Centre (CRC) Gorakhpur under National Institute of Empowerment of Persons with Multiple Disabilities (NIEPPMD) on 29/09/2021	Mr.A.G.Indalkar	Mr.A.G.Indalkar

7	Application of Natural Fibres as Composite Reinforcement Materials in Fabrication of Trans-Tibial Prosthetic Sockets	XXVI National Conference Of The Orthotics And Prosthetics Association Of India	Mr. Bhagirath Jana	Mr. M.N.Saraf
8	Recent Trends in Advancement of Spinal Orthotics	Online CRE on Advancements in Spinal Orthotics organized by Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 25 th and 26 th April 2022	Mrs. U.M.Naukudkar	Mrs. U.M.Naukudkar


Lecturer (P&O)


Lecturer & HOD (P&O)


Director

Projects Undertaken by the Department of Prosthetics & Orthotics

1.) Prosthetic Designs for Congenital Pseudo-Arthrosis of Tibia:

Congenital Pseudarthrosis of the Tibia (CPT) is a rare pathological condition characterized by anterolateral bowing of the tibia that typically progresses to loss of continuity of the tibial diaphysis. It is challenging to treat effectively this difficult condition and its possible complications. In the Institute we are frequently presented with patients suffering from this debilitating condition.

Earlier these patients were fitted with AFO with modified footwear with adequate compensation for shortening of the lower limb. Sometimes this shortening may range from 4-6 inches or more than that. In this situation because of the added compensation the footwear becomes extremely heavy and does not offer support to the pseudarthrosed segment of the leg. This results into uncontrolled progression of tibial bowing and the shortening goes on increasing with age and patient finds extremely difficult to use this footwear.

To deal with this problem the special type of prosthesis was designed which can control the anterior bowing of tibia by offering anterior support and partially relieving the weight from the malformed segment. The prosthetic design makes use of prosthetic foot attached to a specially customized socket by means of a custom made extension added between socket and foot. So far more than 5 cases have been fitted with this design of the prosthesis.

2). Development of a Low Cost Sports Prosthesis for Tibial Hemimelia

Tibial hemimelia is a spectrum of deformities characterized by a shortened or absent tibia and relatively unaffected fibula; duplication of the great toe may be the only clinical finding in subtle deformity. Tibial hemimelia is usually associated with lower extremity deformities and other organ system malformations, most commonly of the foot.

Patients suffering from tibial hemimelia are usually fitted with a prosthesis which consists of a socket – to accommodate the residual limb, a distal extension below the socket to make up for the shortened leg, prosthetic knee joints extending up to the thigh and attached to a thigh shell with or without ischial weight bearing.

This type of prosthesis does allow the patients to walk and perform all their activities of daily living up to a near normal level. But it does not allow the persons affected by this disease to participate in any type of sports and athletic activities as it is very bulky in nature and it is very energy consuming for the patient to participate in such activities with these prostheses.

Hence an attempt was made to design a low cost sports prosthesis for a patient suffering from this disease. The prosthesis was made using a piece of especially designed spring steel attached to the base of the socket via an adapter. The patients was successfully able to participate in various sports activities like running and playing cricket.

3). Development of a Low Cost Sports Prosthesis for Rotationplasty:

When a patient has osteosarcoma in the shaft of the femur (thigh bone) in the lower limb, the femur below the head is completely removed and a tibia after rotating at 180° is connected to the femoral head. This surgery is called as the Van Nes rotation plasty.

After this surgery anatomical ankle joint is expected to function as prosthetic knee joint with a specially designed prosthesis so that the patient can lead active lifestyle as majority of them belong to late juvenile or adolescent age group.

Due to their high energy level these patients, who have undergone Rotationplasty are able to participate in sports activities like running, cycling, jumping etc. as their ankle joint is preserved and it functions as a "new knee joint" with the weight distributed evenly on the foot and the ischial tuberosity.

In the Western countries materials like Carbon Fibre and Epoxy Resin combination laminates are used to produce prostheses designed for sports activities. These prostheses are very costly and cannot be afforded by a vast majority of Indian patients. So the department of Prosthetics & Orthotics decided to develop a Low Cost Prosthesis for Sports for Rotationplasty at the Institute by using low cost materials like Spring Steel. This prosthesis was made using the machinery and equipments available at the Institute itself.

4). Study on the Efficacy of Custom Moulded Insoles in Reducing Peak Plantar Pressure and Improving the Gait Parameters in Diabetic Patients:

The number of diabetic persons in India is rapidly on the rise. This has led to many people having insensate feet and in many people this may lead to diabetic neuropathy which if not treated properly may lead to amputations. Insensate feet may lead to development of pressure ulcers due to improper distribution of pressure on their feet which needs to be redistributed and this can be achieved by providing them with appropriate modifications in their footwear.

The department has procured last year a Pedobarometer, Foot casting & Insole Molding Apparatus and Insole Heating Device. This setup is being regularly used for designing of insoles used in footwear for the patients suffering from diabetes and other diseases which may lead to insensate feet in patients. The quality of insoles made with the machine helps to evenly distribute the body weight on the foot than the conventionally made insoles.

A study was conducted by the department to check the efficacy of custom moulded insoles in reducing peak plantar pressure and improving the gait parameters in diabetic patients using custom moulded insoles. 30 patients were inducted as a part of the study and custom moulded insoles were fabricated for these patients using the above mentioned setup. It was found that these custom moulded insoles were efficient in reducing the peak plantar pressure in diabetic patients and improving their gait parameters.

5.) Casting Frame for Compression Release and Stabilized (CRS) Socket :

Standard sockets for trans-radial prosthesis only emphasize on containment and control of soft tissues of the remaining stump but they do not provide a control over the underlying bone (radius). In the Prosthetics & Orthotics department we have made an attempt to fabricate trans-radial sockets using the concept of Compression Release and Stabilized Socket which focuses on controlling the bone lying below the soft tissues of the stump. In a compression/release stabilized (CRS) socket, three or more longitudinal depressions compress and displace tissue between the socket wall and the bone to reduce lost motion when the bone is moved with respect to the socket. Release areas between depressions are opened to accommodate displaced tissue. The CRS socket provides better control of the stump within the socket, and had less slippage.

An attempt was made to design and fabricate a Casting frame for these CRS sockets at the Institute and was fairly successful.

6.) Comparative analysis between Thermoplastic Sockets and Carbon-Epoxy Composite Sockets for Lower Limb Endoskeletal Prostheses.

The major contribution towards successful fitment of prosthesis may be obtained by comprehensive understanding of the biomechanical structure of socket and its material, weight, thickness in particular to fulfill the desirable load distribution on soft tissues and bones of residual limb.

Conventionally the sockets for exoskeletal prostheses are made out of Polyester Resin and Fibre Glass composites using lamination process. When the similar type of sockets were used for endoskeletal prostheses, breakages were observed at the interface between socket and socket adapter. The strength of laminated sockets is influenced more by construction material and fabrication technology.

It has been reported that the basic factors which should be considered in developing countries when selecting socket materials are function, durability, stability, cost, availability, sustainability, climatic conditions, and ease of maintenance. In a survey of ten years (1994-2004) follow up and repair records of Trans Tibial Amputation fitted in one of the National Institutes in India, it was observed that 66% of total replacement/repair of prosthesis occurred due to socket breakage, material failure and deformation.

Lower limb socket fabrication technology has undergone a sea change with the introduction of endoskeletal prostheses. At present these sockets are made using Polypropylene Co-Polymer (PPCP) sheets of 15mm thickness by vacuum forming in this Institute. Whereas Carbon-Epoxy composites are also widely used in the field of Prosthetics & Orthotics for making strong and lightweight prosthetic sockets.

The ideal material for making prosthetic sockets should have the following properties:

- 1) Lightweight,
- 2) Strong under strain,
- 3) Strong under pressure,
- 4) Durable to resist fracture under impact,
- 5) Capable of resisting stress in all planes,
- 6) Cost effective and
- 7) Easy to apply.

Need for Study:

All over the world an attempt is being made to make thin walled, lightweight prosthetic sockets making use of Carbon fibre-Epoxy composites by lamination process to enhance the performance of amputees with prosthesis.

Studies have been conducted to find out the strength of various combinations of composite materials for use in fabrication of prosthetic sockets via the use of uniform specimens of different materials (13).

There also have been studies which have conducted Finite Element Analysis (FEA) using 3D models of prosthetic sockets made by scanning actual sockets using a 3D Laser Scanner and Computer Aided Designing (CAD) software (14). These 3D models have been analysed using various methods to understand their behaviour under different loading conditions.

However no studies have been conducted to find out the actual strength, durability, weight of the prosthesis, energy consumption, gait analysis and comfort with the prosthesis using Thermoplastic sockets made by vacuum forming and sockets made using Carbon Epoxy composites fabricated by lamination technique.

Hence it is proposed to perform the comparative analysis between Thermoplastic Sockets made of PPCP using vacuum forming technique and laminated sockets made out of Carbon-Epoxy composites with respect to the parameters of the study mentioned below for use with Endoskeletal prostheses and validate the selection of a proper material for prosthetic sockets.

Research Question: Is the socket made by using Carbon-Epoxy composites functionally superior in terms of strength, durability and is light in weight in comparison with thermoplastic sockets and made from Polypropylene Co-Polymer (PPCP) having thickness of 15mm?



Lecturer (P&O)



Lecturer & HOD (P&O)



Director

Annexure- Part III (5)

List of Research Publications by the Faculty from Dept. Of Prosthetics & Orthotics (MPO)

Sr. No	Name of the Research Publication	Name of the Journal	Name of 1 st Author	Name of 2 nd Author	Name of 3 rd Author	Publication Year
1	Prosthetic Fimment Outcomes in Patient with Rotationplasty- A Case Series	International Journal of Healthcare and Biomedical Research	Mr. L. R. Bhuyar	Mr. A. G. Indalkar	Dr. Mahesh Choudhary	2020
2	Cost Effective Transradial Assistive Prosthetic Hand	International Journal of Science and Research	Mr. L. R. Bhuyar	Mr. A. G. Indalkar	Ms. V. C. Pawar	2020
3	Transtibial Prosthesis with Provision for Squating	Patent CBR No. 22028	Mr. A. G. Indalkar	Mrs. V. K. Pai	Mr. L. R. Bhuyar	2020
4	Anatomical Motion Prosthetic Knee Joint (AMPKJ)	Patent CBR No. 26522	Mr. L. R. Bhuyar	Mr. Aqeel Maner	Mr. A. G. Indalkar	2020
5	Anatomical Motion Knee Joint-A New Design Concept of Prosthetic Knee Joint for Knee Disarticulation (KD)	International Organization of Scientific Research (IOSR)	Mr. L. R. Bhuyar	Mr. A. G. Indalkar	Mr. Aqeel Maner	2020
6	Dual Mode Powered Wheelchair for Locomotor Disabled	Patent CBR No. 1591	Dr. Mahesh Choudhary	Mr. L.R.Bhuyar	Mrs. Vishakha Meshram	2021
7	Orthotic Management of Patient with Arthrogyroposis Multiple Congenita – A	International Journal of Science and Research	Mrs. Urmila Naukudkar	Mr. Devidas Thakre		2022

	Case Study				
8	Effectiveness of Custom Moulded Insoles in Reducing Peak Plantar Pressure and Improving Gait Parameters in Patients with Diabetic Neuropathy	International Journal of Healthcare and Biomedical Research	Mrs. Urnila Naukudkar	Ms. Carina Castello	2022
9	Comparison Between Weight Activated and Polycentric Knee Joints on the Gait Performance of Transfemoral Amputees	International Journal of Science and Research	Mr. Makarand N Saraf	Ms. Sangeeta Nayak	Mr. R. Ravindran 2022



Lecturer (P&O)



Lecturer & HOD (P & O)




Director

Annexure – Part III (5)

List of Ongoing and Completed Research Projects (Dissertations) of MPO Students

Sr. No	Dissertation Topic	Name of Student	Name of Guide	Academic Year
1	Comparative study between Munster socket and Split socket with step up hinges for short transradial stump	Ms. Vaishnavi C. Pawar	Mr. H.S. Dongare	2021-2023
2	Comparative study between PTB socket and CRS socket	Mr. Yashas Chumble	Mrs. U.M. Naukudkar	2021-2023
3	Device for analysis of Gait kinematic parameters	Ms. Mrunali Kalkotwar	Mr. M.K. Tiwari	2021-2023
4	Comparative Study Between PTB Socket with PU Liner and Total Surface Bearing Socket with Silicon / Gel liner	Mr. Sushilkumar Dantala	Mr. M.N. Saraf	2021-2023
5	A Comparative Study to Check the Effectiveness of Supra-Malleolar Orthosis – Ankle Foot Orthosis vs Solid Ankle Foot Orthosis in Managing Foot Over Pronation and Analysing Gait Parameters amongst Cerebral Palsy Children with Spastic Diplegia	Ms. Garima Sharma	Mr. D. P. Prabhu	2020-2022
6	Comparative Study Between Indigenously Developed Multi-Axial Prosthetic Foot and SACH foot in terms of Gait Patterns and Energy Expenditure in Adult Unilateral Trans-Tibial Amputees	Mr. Devidas Thakre	Mr. M.K. Tiwari	2020-2022
5	Kinematic analysis of Quadrilateral and Ischial Containment Socket for unilateral Transfemoral amputees.	Ms. Jyotiben Vora	Mr. M.N. Saraf	2019-2021
6	Comparative analysis of the performance of solid ankle AFO vis-a-	Mr. Kishan Singh	Mr. H.S. Dongare	2019-2021

	vis with articulated AFO with Tamarack ankle joint in cerebral palsy spastic diplegic patients in term of gait parameters.			
7	Efficiency of articulated dorsiflexion assisting tone reducing ankle foot orthosis in improving gait and postural balance in hemiplegic patients.	Ms. Gauri Panse	Mrs. U.M. Naukudkar	2019-2021
8	Comparative Study Between Indigenously Developed Transradial Myoelectric Prosthetic Hand and Transradial Body Powered Prosthesis with Mechanical Hand	Mr. Akshay Chavan	Mr. A.G.Indalkar	2018-2020
9	Development and Testing the Effectiveness of Hands-Free Walker in Children with Cerebral Palsy	Mr. Akshay Babu	Mr. D.P. Prabhu	2018-2020
10	A Comparative Study of Functional Difference in Gait Parameter and Energy Consumption Between Indigenously Developed Posterior Leaf Spring Ankle Foot Orthosis with Filler and Solid Ankle Foot Orthosis with Filler in Partial Foot Amputation	Mr. Dharendra Yadav	Mr. M.N.Saraf	2018-2020
11	Comparative Study Between Indigenously Developed Knee Ankle Foot Orthosis with Stance Control Knee Joint and Knee Ankle Foot Orthosis with Drop Lock Knee Joint in Post-Polio Residual Paralytic Patients	Ms. Yogeeta Madkaikar	Mr. M.K.Tiwari	2018-2020
12	To Study the Efficacy of Custom Moulded insoles in reducing peak planter pressure and improving gait parameters in diabetic patients	Ms. Carina Castello	Mrs. U.M. Naukudkar	2017-2019


Lecturer (P&O)


Lecturer & MOD (P&O)


Director

Annexure- PART III (4&5)

LIST OF CONFERENCES/SEMINARS/WORKSHOPS ATTENDED BY PG STUDENTS

Sr.No	Conference/Seminar/Workshop	Names of Attendees	Location/Dates
1	25th Annual National Conference of the Orthotics & Prosthetics Association of India	Mr. Kishan Singh Ms. Jyotiben Vora Ms. Gauri Panse	Bhubaneshwar from 7 th - 10 th February 2020
2	Indian Association of Assistive Technologists Webinar on Assistive Device Technology, Quality Assurance by Indian Manufacturers	Ms. Gauri Panse Ms. Jyoti Vora	Online Webinar 27 th June 2020
3	Indian Association of Assistive Technologists Webinar on Multidisciplinary Approach in Rehabilitation for Geriatric and PWDs during COVID-19	Ms. Jyoti Vora Mr. Kishan Singh Ms. Gauri Panse	Online Webinar 25 th July 2020
4	National Institute of Locomotor Disabilities Webinar on Spinal Bracing: A Treatment Option for Children with Spinal Curvature	Ms. Jyoti Vora Mr. Kishan Singh Ms. Gauri Panse	Online Webinar 19 th September 2020
5	Grippy : Affordable Semi-Bionic Hand that Feels like a Real Hand	Mr.Devidas Thakre Ms. Garima Sharma	Online Webinar conducted by Indian Association of Assistive Technologists on 27 th November 2021
6	EARLY DETECTION OF SKELETAL DISORDERS IN CHILDREN AND THEIR TREATMENT AND IMPACT	Mr.Devidas Thakre Ms. Garima Sharma	Online Webinar Conducted On 01/12/2021 By Composite Regional Centre For Skill Development, Rehabilitation And Empowerment Of Persons With Disabilities (CRC), Lucknow
7	Care Of Stump , Maintenance Of Artificial Limbs, Aids And Appliances	Mr.Devidas Thakre Ms. Garima Sharma	Online Webinar Conducted On 13/12/2021 By Composite Regional Centre For Skill Development, Rehabilitation And Empowerment Of Persons With Disabilities (CRC), Lucknow
8	Hand Splinting and Rehabilitation	Mr.Devidas Thakre Ms. Garima Sharma	Online Webinar conducted by Indian Association of Assistive Technologists on 29 th January 2022

9	Initiative in Outer Mobility	Mr. Devidas Thakre Ms. Garima Sharma	Online Webinar conducted by Indian Association of Assistive Technologists on 26 th February 2022
10	Online CRE on Lower Extremity Exoskeleton System	Ms. Garima Sharma	P. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 7 th and 8 th March 2022
11	XXVI National Conference Of The Orthotics And Prosthetics Association Of India	Ms. Garima Sharma	28-30 March 2022, Panjim Convention Centre, Goa
12	GLOBAL REPORT ON ASSISTIVE TECHNOLOGY, WHO	Ms. Garima Sharma	ONLINE WEBINAR CONDUCTED BY WHO ON 16/05/2022

MSA

Lecturer (P&O)

Lecturer & HOD (P&O)

Director

Garima