

<b>Research and Development - (PMR Department)</b>				
<i>Scientific Papers are published in Professional Journals. (National and International) by Professional Staff of the Institute. The details of the Department wise research and development procedure undertaken at this Institute are as below:</i>				
<b>Sr. No.</b>	<b>Title of project</b>	<b>Year</b>	<b>Name of the student /faculty</b>	<b>Name of the guide</b>
1.	Comparative study of lung function using spirometry in children with and without cerebral palsy.	2017	Dr. Manisha Sambharkar	Dr. Anil Kumar Gaur
2.	Effect of stroke rehabilitation on caregivers in terms of care giving burdened & quality of life.	2017	Dr. Shaily Shah	Dr. Anil Kumar Gaur
3.	A prospective study of effect of common lower extremity surgeries followed by splintage and exercises on spasticity in patients with spastic diplegic cerebral palsy.	2018	Dr. Richa	Dr. Anil Kumar Gaur
4.	A study of prevalence of hip subluxation in spastic cerebral palsy non ambulatory patients and its correlation with spasticity in hip flexor and adductor group of muscles.	2018	Dr. Sentimoa Jamir	Dr. Amit Mhambre
5.	A study of the correlation between body composition (fat percentage, bone mass and muscle mass) and radiographic osteoarthritic changes in knees in males.	2019	Dr. Vaibhav Vira	Dr. Amit Mhambre
6.	Effect of spasticity, selective voluntary motor control and range of motion of the lower extremity on functional mobility in children with spastic Cerebral Palsy: A cross sectional analytical study.	2020	Dr. Roshini Jhaveri	Dr. Anil Kumar Gaur
7.	A comparative study of the scapulothoracic rhythm in adhesive capsulitis and normal shoulder.	2020	Dr. Shweta Gawande	Dr. Amit Mhambre
8.	A study on the radiological correlation in patients with Clinical Subacromial impingement using dynamic ultrasonography	2022	Dr. Vinay Goyal	Dr. Vinay Goyal

<b>ONGOING RESEARCH PROJECTS (PMR Department)</b>				
<b>Sr. No.</b>	<b>Title of Project</b>	<b>Year</b>	<b>Name of the student/faculty</b>	<b>Name of the guide</b>
1.	Evaluation of sexual dysfunction in Spinal Cord Injured Men	2018	Dr. Vinay Goyal	Dr. Vinay Goyal
2.	Dual mode powered wheelchair for persons with locomotor disabilities	2021	Dr. Mahesh Choudhary	Dr. Mahesh Choudhary
3	A comparative study of the therapeutic efficacy of oral clonazepam and oral baclofen on spasms among patients with spinal cord injury: A randomised controlled trial.	2022	Dr. Bharat Pulavarti	Dr. Anil Kumar Gaur
4	The effect of tendon lengthening procedures done in lower limb on balance in 4 to 12 year-old Children with Spastic Cerebral Palsy Diplegia: A prospective interventional study	2022	Dr. Hitharthy Kachariya	Dr. Amit Mhambre
5	Effect of fluoroscopy guided caudal epidural steroid injection on pain and functional outcome in lumbosacral radiculopathy due to prolapsed intervertebral disc: A prospective study.	2023	Dr. Sakshi Gawande	Dr. Vinay Goyal
6	A correlation study of X-ray changes in wrist and knee with serum alkaline phosphatase levels in evaluating progression and activity of Vitamin D deficient rickets in children aged 1-6 years. A prospective analytical study.	2023	Dr. Emmanuel Mathews	Dr. Amit Mhambre
7	Comparison between radiofrequency ablation of genicular nerves and intra articular steroids in patients with advanced OA Knee : Prospective Randomized Study.	2023	Dr. Vinay Goyal	Dr. Vinay Goyal
8	Effect of intra-articular platelet rich plasma injection in patients with osteoarthritis with osteochondral lesions of knee: A prospective interventional study	2023	Dr. Mahesh Choudhary	Dr. Mahesh Choudhary

9	Assessing Palliative Care concerns in patients with Monophasic Chronic Neurological Conditions undergoing inpatient Comprehensive Rehabilitation: a Pilot Study	2023	Dr. Priyanka Saikia	Dr. Priyanka Saikia
10	To compare the efficacies of spinal accessory nerve blockade versus myofascial trigger points (MTrPs) injections in the management of trapezius muscle-related myofascial pain.	2023	Dr. Sumedh More	Dr. Sumedh More

<b>PUBLISHED ARICLES/RESEARCH PUBLICATIONS (PMR Department)</b>					
क्र . /संSr. no.	शोध पत्र का शीर्षक/Title of Research paper	वर्ष /Year	लेखक का नाम/Name of author	सहलेखक का - /नामName of co-author	जर्नल का नाम/Journal name
1	Comparison of pre-operative and post-operative clinical and radiological angles of foot in equinovarus deformity in cerebral palsy hemiplegic.	2017	Dr. Amit Mhambre	Dr. Badrinath Athani	Indian Journal of Applied Research Volume - 7   Issue - 4   April-2017   ISSN - 2249-555X   IF : 4.894   IC Value : 79.96
2	The institutional demographic profile of amputation in Mumbai.	2017	Dr. Amit Mhambre	Dr. Vivek Chawathe Dr. Anil Kumar Gaur Dr. Rajendra Sharma Dr. Vivek Pusnake Dr. Ameya Joshi	Indian Journal of Applied Research Volume - 7   Issue - 8   August - 2017   ISSN - 2249-555X   IF : 4.894   IC Value : 79.96
3	Prevalence of Pain in Medical Representatives using Two-wheeler for daily Commute	2017	Dr. Vivek Chawathe	Dr. Amit Mhambre Dr. Anil Kumar Gaur Dr. Rajendra Sharma Dr. Vivek Pusnake Dr. Nima Wangdi	Journal on Recent Advances in Pain, May-August 2017;3(2):1-5

4	Quality of Life in Spinal Cord Injured patients with Neurogenic Bladder.	2017	Dr. Davis Joseph paracka	Dr. Vinay Goyal Dr. Sreedevi Menon P	Indian Journal of Applied Research Volume - 7   Issue - 4   April-2017   ISSN – 2249- 555X   IF : 4.894   IC Value : 79.96
5	The role of intra-articular injection sodium hyaluronate in rehabilitation of osteoarthritis knee.	2018	Dr. Vivek Chawathe	Dr. Anil Kumar Gaur Dr. Amit Mhambre Dr. Vivek Pusnake Dr. Ameya Joshi Dr. Shaily Shah	Indian Journal of Applied Research Volume-8   Issue-10   October-2018   ISSN - 2249-555X   IF : 5.397   IC Value : 86.18
6	Osteoarthritis knee pain: An unjustified diagnosis	2018	Dr. Mahesh Choudhary	Dr. Aradhana Shukla (Corresponding Author)	International J. of Healthcare and Biomedical Research, Volume: 06, Issue: 04, July 2018, 64 - 70
7	Offloading only as a means of management of neuropathic ulcers: A Case series	2018	Dr. Aradhana Shukla	Dr. Mahesh Choudhary (Corresponding Author)	International Journal of Medical Science and Diagnosis Research (IJMSDR) Volume 2, Issue 4; July-August: 2018; Page No. 141-147
8	Comparison of Neurological Versus Functional Recovery Observed during Rehabilitation , among Paraplegics following Traumatic Spinal Cord Injury	2019	Dr. Amol Khade	Dr. Anil Kumar Gaur	International Journal of Science and Research Volume 8. Issue-9, September 2019
9	Institutional Clinical Profile Of Hemophilic Arthropathy in Trivandrum	2019	Dr. Vinay Goyal	Dr. V K Sreekala	Indian Journal of Applied Research Volume-9   Issue-10   October - 2019   PRINT ISSN No. 2249 - 555X   DOI : 10.36106/ijar

10	It is Never Too Late to Start: Functional Outcomes Following a Delayed Comprehensive Rehabilitation Program for Traumatic Spinal Cord Injury Patients	2019	Sumit Banerjee <sup>1</sup> ,	Amol Khade <sup>2</sup> , Mohammed Y Aijaz <sup>3</sup> , Manish Mishra <sup>4</sup> , Trupti Shende <sup>5</sup> , Rohit Gaikar	Indian Journal of Physical Medicine & Rehabilitation, Volume 30 Issue 4 (October–December 2019) : 91-95
11	Demographic profile and spectrum of ultrasonographic findings in medial knee pain: an observational study	2020	Dr. Ameya Joshi	Dr. Shefali Gupta, Dr. Anil kumar Gaur, Dr. Amit Mhambre, Dr. Aradhana shukla	India Journal of Medical Sciences (IJMS)
12	Comparison of urodynamic parameters with respect to neurological levels in post-traumatic spinal cord injury patients.	2020	Dr. Rohit Ramesh Gaikar	Dr. Anil Kumar Gaur, Dr. Sumedh Narayan More , Dr. Vaibhav Shivram Lokhande, Dr. Amol Babanrao Khade.	International Journal of Research in Medical Sciences pISSN 2320-6071   eISSN 2320-6012 April 2020   Vol 8   Issue 4
13	Prosthetic fitment outcomes in patient with Rotationplasty-A Case series	2020	Lukesh Bhuyar	Dr. Mahesh Choudhary (Corresponding Author)	International J. of Healthcare and Biomedical Research, Volume: 08, Issue: 03, April 2020, 11-16 DOI: 10.36848/IJHBR/2020/12100.51205
14	A cross-sectional study to evaluate the manual wheelchair-related factors associated with median nerve compression by ultrasonography	2020	Shukla A	Gaur AK, Shenoy A, Mhambre A	J Orthop Spine 2020;8:57-64
15	Effect of ultrasound guided pes anserine bursa injection on knee scores: A comparative study	2021 (accepted for publication)	Dr. Mahesh Choudhary	Dr. Richa	Journal of Orthopaedics and Spine

16	Clean intermittent catheterization in long-term management of neurogenic bladder in spinal cord injury	2022	Dr. Ameya Deepak Joshi	Dr. Aradhana Shukla, Dr. Vivek Chawathe, Dr. Anil Kumar Gaur	International Journal of Urology. 2022
17	Improvement in Pain and Quality of Life After Ultrasound-Guided Saphenous Nerve Block in Patients With Knee Osteoarthritis.	2022	Dr Sumedh More	Dr. Rohit Gaikar, Dr. Anuradha Shenoy, Dr. Shefali Gupta.	Cureus 14(5): e25060. DOI 10.7759/cureus.25060, 05/16/2022.
18	Bowel Management in Patients With Chronic Spinal Cord Injury: A Cross-Sectional Survey.	2022	Vinay Goyal	Davis J Paracka, Ravi Gaur, Aradhana Shukla.	Cureus 14(6): e25893. DOI 10.7759/cureus.25893
19	A comparative study of the effectiveness of 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	2022	Manoj Kumar Tiwari,	Yogeeta Madkaikar, <u>Anil Kumar Gaur.</u>	Int J Health Sci Res. 2022; 12(11):140-150. DOI: <a href="https://doi.org/10.52403/ijhsr.20221118">https://doi.org/10.52403/ijhsr.20221118</a>
20	A study of effectiveness of tendon transfers in upper extremity in the management of spastic hemiplegia	2023	Badrinath Athani, Anil Kumar Gaur, Anand Varma		

**SCIENTIFIC PAPER PRESENTATION AT CONFERENCES (PMR Department)**

Sr. No.	Name of the Teacher	Name of the Conference	Place of Conference	Date of Conference
1	Dr. Rajendra Sharma	PMR Refresher Course 2017 Paper I: Arthritis and its Management Paper II: Orthotics Lower Limb	Jaipur	21st to 23rd September, 2017

2	Dr. Anil Kumar Gaur	IAPMR Midterm CME 2017 Paper: Surgical Management of Upper Extremity Deformities.	Bhubaneswar	25th – 27th August 2017
		MAPMRCON 2017 Paper: Rehabilitation Surgery around Shoulder	Mumbai	11th – 12th November 2017
		IAPMR CON-2018 Workshop: Resource Person for Diabetic foot Management Paper: Rehabilitation of Children with Congenital Anomalies of Lower Limbs.	Delhi	18th to 21st January, 2018
		CRE: Fabrication and Fitment of Myoelectric Below Elbow Prosthesis Paper: Transradial Amputation	AIIPMR, Mumbai	3rd to 4th February, 2018
		WCNR- 2018 Paper: Multidisciplinary team approach in Neuro rehabilitation in India.	Mumbai	7th to 10th February, 2018
		CRE: Advances in Orthotic Management of Diabetic foot. Paper: Diabetes a Challenge to Health Care System	AIIPMR, Mumbai	17th to 18th March, 2018
		IAPMRCON-2019 Paper: Pronator rerouting.	Mumbai	18th -20th January 2019
		IAPMRCON-2020 Paper: Upper extremity surgeries in paralytic disorders.	Kozhikode	17th to 19th January 2020
		IAPMR MID TERM CME 2020 Virtual Conference Paper: Rehabilitation Management- Surgical or Non-Surgical.	Patna	31st October- 1stNovember 2020
		IAPMRCON 2022 Paper: Surgical Management in Cerebral Palsy.	Online	27th March 2022

		GATEC 2023 Paper: National level systems for provision of assistive products	Greater Noida	23rd- 25th March 2023.
3	Dr. Vivek Pusnake	MAPMRCON 2017 Paper: Shoulder Arthrodesis & Rehabilitation	AIIPMR, Mumbai	11th – 12th November 2017
		IAPMRCON-2019 Paper: Torticollis-Surgical Release	Mumbai	18th -20th January 2019
4	Dr. Amit Mhambre	IAPMR Midterm CME 2017 Paper: Rehabilitation in Amputation.	Bhubaneswar	25th – 27th August 2017
		MAPMRCON 2017 Paper: Osteoarthritis Shoulder	AIIPMR, Mumbai	11th – 12th November 2017
		WCNR- 2018 Poster Presentation: Comparison of Pre Operative and Post Operative Clinical and Radiological Angles of Foot in Equinovarus Deformity in Cerebral Palsy Hemiplegic.	Mumbai	7th to 10th February, 2018
		IAPMRCON 2019 Paper: FCU to ECRB transfer	Mumbai	18th -20th January 2019
		IAPMR Mid-term CME Paper: Updates on Disability Evaluation.	Bangalore	24th-26th September 2021
5	Dr. Vinay Goyal	IAPMR CON-2018 Paper: Motor Recovery in Stroke.	Delhi	19th to 21st January, 2018
		WCNR- 2018 Poster Presentation: Evaluation of Sexual Dysfunction in Men with Spinal Cord Injury	Mumbai	7th to 10th February, 2018
		IAPMR CON-2019 Paper: Tendoachilles Lengthening	Mumbai	18th -20th January 2019
		CME on Spinal Cord Injury Rehabilitation	Bhopal	5th September 2021



		Lecture- " Bladder management in Spinal cord Injury"		
		IAPMRCON 2023 : Paper: A study on the correlation between clinical and radiological assessment using dynamic ultrasonography in patients with clinical subacromial impingement	IMPHAL	9-12 Feb 2023
		51st annual conference GPA, Greater Bombay Topic: Physical Medical Rehabilitation: comprehensive collaborative care for differently abled and able bodied patients	Mumbai	18th March 2023
6	Dr. Sumedh N. More	MAPMRCON 2017 Paper: Shoulder Disarticulation Prosthesis	AIIPMR, Mumbai	11th – 12th November 2017
		IAPMR CON-2019 Paper: Flexor Pronator Release at Elbow	Mumbai	18th -20th January 2019
		IAPMR MID TERM CME 2022.  Paper Presentation: Debridement and surgical techniques in pressure injury management in SCI.	AIIMS, Nagpur	24th September 2022
7	Dr. Mahesh Choudhary	MAPMRCON 2017 Paper: Degenerative Shoulder	AIIPMR, Mumbai	11th – 12th November 2017
		IAPMR MID TERM CME 2022.  Poster presentation: Watchful waiting: Spontaneous resolution of a rare case of congenital unilateral tibial angular deformity, a case report	AIIMS, Nagpur	24th September 2022

8	Dr. Vivek Chawathe	MAPMRCON 2017 Paper: Uncommon Shoulder Pain Syndromes	AIIPMR, Mumbai	11th – 12th November 2017
10	Dr. Priyanka Saikia Choubey	MAPMRCON 2017 Paper: Recurrent Shoulder Dislocation Rehabilitation	AIIPMR, Mumbai	11th – 12th November 2017
11	Dr. Deepak Kumar Sharma	MAPMRCON 2017 Paper: Periarthritis Shoulder	Mumbai	11th – 12th November 2017
<b>PG students</b>				
1	Dr. Ameya Joshi	MAPMRCON 2017 Paper: Scapular Stabilization	Mumbai	11th – 12th November 2017
		11th World Congress of Neurorehabilitation of World Federation of Neurorehabilitation WFNR 2020. E-poster (video): Treatment of chronic nonhealing neuropathic ulcer using autologous platelet rich plasma (PPRP). E-poster (video): The goal oriented approach is the key in rehabilitation of chronic neurological conditions – a case of post-stroke dystonia.	Lyon, France	7th to 10th October 2020.
2	Dr. Aradhana Shukla	WCNR- 2018 Poster: Ocular cysticercosis masquerading as sixth nerve palsy providing binocular diplopia in benign intracranial hypertension. Poster: Bladder involvement in subacute combined degeneration of spinal cord and bladder rehabilitation.	Mumbai	7th to 10th February, 2018
3	Dr. Anuradha Shenoy	MAPMRCON 2017 Paper: Clinical Examination of shoulder joint	AIIPMR, Mumbai	11th – 12th November 2017
4	Dr. Manisha Shambharkar	MAPMRCON 2017 Paper: Shoulder joint anatomy	Mumbai	11th – 12th November 2017
5	Dr. Shaily Shah	MAPMRCON 2017	Mumbai	11th – 12th November 2017

		Paper: Shoulder joint biomechanics		
6	Dr. Roshini Jhaveri	IAPMR MID TERM CME 2022.  Poster Presentation: Effect of Spasticity, voluntary control and range of motion of the lower extremity on functional mobility in children with spastic cerebral palsy	AIIMS, Nagpur	24th September 2022
7	Dr. Shweta Gawnade	IAPMR MID TERM CME 2022  Paper Presentation: A comparative study of scapulohumeral rhythm in the affected and normal shoulder of adhesive capsulitis	AIIMS, Nagpur	24th September 2022
8	Dr. Richa	IAPMRCON 2023 Poster- Father and son duo - rare case of HAJDU CHENEY SYNDROME	IMPHAL	9th -12th February 2023

**WORKSHOP CONDUCTED(PMR Department)**

<b>Sr. No.</b>	<b>Subject</b>	<b>Place</b>	<b>Date</b>	<b>No. of Participants</b>	<b>Names of Resource Person</b>
1	USG Workshop	AIIPMR, Mumbai	11th November 2017	25	Dr. Shefali Gupta Dr. Sumedh More
2	Surgical Workshop in Rehabilitation	AIIPMR, Mumbai	13th – 18th November 2017	10	Dr. Rajendra Sharma Dr. Anil Gaur Dr. Vivek Pusnake Dr. Amit Mhambre Dr. Vinay Goyal Dr. Sumedh More Dr. Mahesh Choudhary
3	Urodynamic Workshop	AIIPMR, Mumbai	17th January 2019	6	Dr. Amit Mhambre Dr. Vivek Chawathe
4	Surgical workshop	AIIPMR, Mumbai	17th January 2019	6	Dr. Anil Kumar Gaur Dr. Sumedh More

5	Surgical Workshop in Rehabilitation	AIPMR, Mumbai	12th – 17th November 2018	10	Dr. Anil Gaur Dr. Vivek Pusnake Dr. Amit Mhambre Dr. Vinay Goyal Dr. Sumedh More Dr. Mahesh Choudhary
6	Surgical Workshop in Rehabilitation	AIPMR&R, Mumbai	11th to 16th November 2019	10	Dr. Anil Gaur Dr. Vivek Pusnake Dr. Amit Mhambre Dr. Vinay Goyal Dr. Sumedh More Dr. Mahesh Choudhary Dr. Ameys Joshi
7	Upper extremity rehabilitation surgeries	Mumbai Online	27th November 2020 – 7th December 2020	Dr. Anil Kumar Gaur	Upper extremity rehabilitation surgeries

**OCCUPATIONAL THERAPY DEPARTMENT**

**I) Details of Conference, CRE and Workshops held during the period 2017 onwards:**

Departmental faculty conducted workshop on “Driver Rehabilitation” in collaboration with Academic Council of Occupational Therapy on 10th March 2018.

**II) Details of In-service training by the employees : Nil**

**III) Details of published articles :**

<b>RESEARCH PUBLICATION OF OCCUPATIONAL THERAPY DEPARTMENT</b>						
<b>Sr. no</b>	<b>Title of Research paper</b>	<b>Year</b>	<b>Name of author</b>	<b>Name of co-author</b>	<b>Journal name</b>	<b>Indexing</b>
1.	Optimising adaptive seating solution in case of severely disabled cerebral palsy patient, case report.	July 2017	Ms.Swati Kurne	Mrs.Anita Gupta	International Journal of science and research,volume6 ,no -7,July 2017.	
2.	Normative data on test of Visual Perceptual skills in Indian Drivers.	Feb 2019	Ms.Swati Kurne	Mrs.Anita Gupta	International Journal of Science and Research,vol.8,No.2	ISSN No-2319 -7064
3.	Comparison of efficacy of the Test of Visual Perceptual Skills-3 and the Rivermaid Perceptual assessment Battery with Performance of Indian Drivers on Driving simulator for determining off road Perceptual skills: A Pilot study.	Sept - 2019	Ms.Sheetal Gupta	Mrs.Anita Gupta Ms.Sushmita Ahirwal	Indian journal of Occupational Therapy, vol 51,issue 3.	DOI:10.4103/ijoth.ijoth-15-19 ISSN 0445-7706

4.	Assessment of Driving skills of Indian adults on a driving simulator: A pilot study.	Oct 2019	Ms.Sushmita Ahirwal	Mrs.Anita Gupta Ms.Sheetal Gupta	Indian Journal of Occupational Therapy, vol.51,issue -4	DOI-10.4103/ijoth.ijoth-16-19 ISSN 0445-7706
5.	Comparison of visual motor integration skills in between Pre-school children with and without Disability.	Jan 2020	Ms.Pew Majumdar	Mrs.Anita Gupta	International Journal of Health Sciences and Research ,vol.10,issue:1.	ISSN -2249-9571
6.	A descriptive study analysing the performance of typically developing Indian children on Motor Free Visual Perceptual Test (MVPT-4)	Sept 2021	Ms.Sheetal Gupta	Mrs.Anita Gupta Ms.Sushmita Ahirwal	International Journal of Research and Development, volume 6,issue 9.	ISSN:2455-7838 (ONLINE)
7.	Comparison of handwriting legibility for manual handwriting among typically developing Indian children.	Sept 2021	Ms.Sushmita Ahirwal	Mrs.Anita Gupta Ms.Sheetal Gupta	International Journal of Research and Development, volume 6,issue 9.	ISSN:2455-7838 (ONLINE)

**IV) List of the ongoing / completed Projects (Occupational Therapy Department) :**

1. A Comparative Study of the Effect of Desk Top Activity Training in Paraplegics in Sitting Body Position versus Standing Body Position on Standing Wheelchair.(staff)
2. A study to determine Indian norms for handwriting speed in healthy adults aged 17 to 25 years using Detailed Assessment of Speed of Handwriting – (DASH 17+).(staff)
3. Impact of lower extremity amputation on driving performance of Indian Drivers.(staff)
4. A descriptive and comparative study analysing the performance of typically developing Indian children on Motor Free Visual Perceptual Test-4 (MVPT-4).(2017-2020)

5. A study to compare Handwriting Components and to identify the common errors noticed in children from different medicines of school. ).(2017-2020)
6. To find the effectiveness of Occupational therapy intervention in managing childhood obesity in Indian children aged 5-12 years. .(2018-2021)
7. A comparative study to determine the efficacy of hand arm bimanual intensive therapy (HABIT) and conventional Occupational Therapy in children with cerebral palsy. .(2018-2021)
8. A Study of Effectiveness Of Occupational Therapy Task –Oriented Treatment Approach On Trunk On Trunk Control In Children With Cerebral Palsy Spastic Diplegia. .(2019-2022)
9. To Assess the Concurrent Validity of Movement Assessment battery For Children -2 with Box & Block Test for Gross Manual Dexterity in Children with Cerebral Palsy aged 7-10 years. (2019-2022)
10. A study to compare the pressure distribution areas on the sitting surface in children with Cerebral palsy and typically developing children using pressure mapping system.(2020-2023)
11. A study to assess motor performance of typically developing Indian children between age 3-12 years on movement assessment battery for children – 2nd Edition. (2020-2023)
12. A study to assess and compare motor skills in children with cerebral palsy using Peabody Developmental motor scale-IInd edition and Movement assessment battery for children-IInd edition with age group 3-6 years. (2021-2024)

<b>v) List of Scientific Presentations (Occupational Therapy Department) :</b>
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- Lecturer in O.T was speaker for workshop on “Cervical cord injuries and role of Occupational Therapy” at T.N.Medical college & B.Y.L Nair hospital in March 2017.
- HOD & Lecturer of O.T conducted online webinar for fellowship program organized by AIOTA on “Splinting in Neurodevelopmental disorders” in 2018.
- Occupational Therapist did presentation at CRE on “Upper limb prosthetic training” conducted by AIIPMR in collaboration in 2018.
- Departmental staff and MoTh students did presentation in SEC Day school on different aspects of disability and continuing the therapy for adolescent children for parents of disabled children and for children under 12 yrs on 9th Oct and 19th Oct 2019.
- Effectiveness of Standing Wheelchair in Achieving Functional Independence in Patients with Spinal Cord Injury, AIOTA conference in Jan 2020 at Mumbai.
- Use of Jebson Taylor Hand Function Test to Compare the Hand Functions in People with CTS and Healthy Individuals, AIOTA conference in Jan 2020 at Mumbai.
- Graded Occupational therapy Rehabilitation program for Covid-19 Survivor with comorbidities – A case study, AIOTA conference, March 2021.
- A study to assess Performance of Indian Children aged between 9-16 years on Detailed Assessment of Speed of Handwriting Test (DASH) at AIOTA conference March 2021.
- To study the effect of ageing on Gross and fine motor skills of Indian Adults using Bruininks Motor Ability Test (BMAT) at AIOTA conference March 2022.

## DEPARTMENT OF PHYSIOTHERAPY, AIIPMR

<b>Workshop held from 2017 onwards (Physiotherapy Department)</b>			
<b>S.No</b>	<b>Held on</b>	<b>Name of the workshop</b>	<b>Resource Person</b>
1.	14 <sup>th</sup> October 2018	Neuro-Developmental Kinesiology	neha Saravanakumar, Anitha Kumaravelan
2.	27-28 April 2019	Balance – A Physiotherapeutic Perspective	Vimal Telang
3.	29 <sup>th</sup> September 2019	Neuro-Developmental Kinesiology	neha Saravanakumar

<b>Details of in service training by the employee (Physiotherapy Department)</b>				
<b>S. No.</b>	<b>Name of the employee underwent training</b>	<b>Training on</b>	<b>Organised by</b>	<b>Held on</b>
1.	R.Ravindran	Procurement, Tendering and General Financial Rules (GFR)	National Productivity Council, Jaipur	17-21 october 2022
2.	Anitha Kumaravelan	MET-MU Micromix Workshop mixed reality demonstration	Maharashtra University of Health Sciences	07 November 2022
2.	Sheik Abdul Khadir AMK	Big Data Management & Comprehensive Analysis	Centre for Development of Advanced Computing, Mohali	14-18 November 2022



<b>List of ongoing/completed projects (Physiotherapy Department)</b>
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**PROJECT 1:**

Effect of High intensity Laser therapy, Extracorporeal Shockwave therapy and Ultrasound therapy on plantar fasciitis: A randomised controlled study

Investigators: R. Ravindran, Mansi Khochare, Pallavi Kasture

**PROJECT 2:**

EFFECT OF CORE MUSCLE STRENGTHENING ON TRUNK PROPRIOCEPTION AND FUNCTIONAL MOBILITY IN PERSONS WITH CHRONIC STROKE.

Investigators: Vimal Telang, Divyarani Savant, Sheik Abdul Khadir

**PROJECT 3:**

Effect of Trunk Muscle Strengthening by Isokinetic Exercises on Trunk Strength, Endurance, Proprioception and Sitting Balance in Adult Males with Chronic Spinal Cord Injury between D6-D12

Investigators: Vimal Telang, Sheik Abdul Khadir, Divyarani Savant

<b>List of scientific paper presentation (Physiotherapy Department)</b>				
<b>S.No</b>	<b>Paper presented by</b>	<b>Name of the presentation</b>	<b>Co Investigators</b>	<b>Presented on</b>
1	R.Ravindran	Sagittal plane kinematic gait analysis of newly designed trans-tibial squatting prosthesis: A case series	Vaishali Pai, Ashok Indalkar	5th Annual conference of Society of Indian Physiotherapists, Mumbai on 10-12 January 2020
2.	Sneha Saravanakumar	Gait analysis in children with spastic diplegia with crouch in sagittal plane- A retrospective observational study	Anitha Kumaravelan , R.Ravindran	5th Annual conference of Society of Indian Physiotherapists, Mumbai on 10-12 January 2020

3.	R.Ravindran	Normative values of sympathetic skin response in normal healthy adults - a pilot study	Saraswati Iyer	National Research Conference for Physiotherapy teachers, 2020
4	Sheik Abdul Khadir AMK	Goals of Ambulation training in spinal cord injury- A critical review	-----	Spinal cord injury rehabilitation Webinar series and conference held on 17th October 2020.
5	R.Ravindran	A study of Sympathetic Skin Response in persons with Type 2 Diabetes mellitus	Saraswati Iyer	International Conference of Physical Therapy, Mumbai 2023

<b>List of research publications (Physiotherapy Department)</b>				
S. No.	Title of paper	Name/s of the author/s	Year of Publication	Name of the journal
1	Comparison of effects of Balance Training on Foam v/s Sand in individual with stroke; Vol 2, Issue 1, May 2018, Pg- 8-13	Sharvani Chogle, Vimal Telang	2018	Journal of Society of Indian Physiotherapists
2	The effect of binocular peripheral vision blocks (partial and complete) on balance in healthy young Indian adults: An experimental study.	Apeksha Besekar, Vimal Telang	2019	The Journal of Indian Association of Physiotherapists
3	Hamstrings Muscle Tightness influences the posterior pelvic tilt and sitting balance in Children with cerebral palsy spastic diplegia	Vidhi Sangani , Vimal Telang	2019	Journal of the Society of Indian Physiotherapists

4	Sensory- Motor impairments of ipsilesional extremities and its impact on activity limitation following stroke. Vol 26, Issue 2,Pg 1-8	Divyarani Savant, Vimal Telang	2019	International Journal of Therapy & Research
5	Evaluation of hot and cold sensation of hand in type 2 diabetic patients in age group of 40-80 years. 2019;3(2):50-2.	Poonam Sepat, Sandhya Wasnik	2019	Journal of Society of Indian Physiotherapists
6	Caregiver's burden of persons with stroke in India: A narrative review.	Vimal Telang	2019	Indian Journal of Physical Therapy and Research
7	Comparison of immediate effect of lateral wedge and uniform lift on the symmetry of weight-bearing during quiet stance and sit-to-stand activities among individuals with chronic stroke; Vol 14, issue 1, 2020, Pg 26-31	Drashti Nilesh Rughani, R Ravindran	2020	Physiotherapy – The Journal of Indian Association of Physiotherapists
8	Sensory nerve conduction study of median ulnar and radial nerves in type 2 diabetic individuals in the age group 40-80 years. 2020, 6(10):e05318	Poonam Sepat, Sandhya Wasnik	2020	Heliyon
9	Effectiveness of 4 – week backward walking training programme incorporated with	ade D'souza, Sandhya Wasnik	2020	Journal of Indian Association of Physiotherapists

	rhythmic auditory cueing on spatial and temporal gait parameters and balance in subjects with hemiparesis: An experimental randomized control trial.			
10	Comparison of hip extensor strength and lumbopelvic stability in persons with non specific low back pain vs normal healthy persons: An observational study	lina jain, Karen Pavri	2021	International journal of applied research
11	Effect of Pilates exercise on the level of fatigue, cognition and knee proprioception in the elderly population of 60 – 80 years.	hradha Shah, Sandhya Wasnik	2021	Journal of Society of Indian Physiotherapists
12	Effects of Isokinetic (Closed Kinetic Chain) strengthening exercises on crouch gait in children with Spastic Diplegia ( Age group – 6 to 14 years )	ejal Gosavi, , Sandhya Wasnik	2021	Journal of the Society of Indian Physiotherapists
13	A Study of motor imagery training on motor strategies of sit-to-stand task and functional mobility in individuals with chronic stroke. 2021, Vol (15), Issue:1, Pg 17-21.	Devanshi Doshi, R. Ravindran	2021	Physiotherapy – The Journal of Indian Association of Physiotherapists
14	Comparison of electromyographic	Dipti Naik, Vaibhav Dolas	2021	International Journal of

	activity of quadriceps muscle in persons with unilateral traumatic transtibial amputation using patellar tendon bearing supracondylar endoskeletal prosthesis with the unaffected limb in weight bearing positions. 7(2), 1–5.			Clinical and Biomedical Research
15	Sagittal plane gait analysis in children with cerebral palsy spastic diplegia with crouch gait: A retrospective observational study.;;15 (2); 74-80.	Sneha Saravanakumar, Anitha Kumaravelan, R. Ravindran	2021	Physiotherapy – The Journal of Indian Association of Physiotherapists
16	Comparison between Weight Activated and Polycentric Knee Joints on the Gait Performance of Transfemoral Amputees. Vol-11(5), Pf 337-341	Makarand Saraf, Sangita Nayak R. Ravindran	2022	International Journal of Science and Research (IJSR)
17	The Role of Sympathetic Skin Response in assessing Autonomic function in Normal Adults	R. Ravindran, Saraswati Iyer, Deshpande Mangala	2023	International Journal of Clinical and Biomedical Research
18	Upper extremity strengthening for respiratory function as an adjunct to conventional physiotherapy in cerebral palsy spastic diplegia children	Rasika Bombatkar, Sandhya Wasnik	2023	Physiotherapy – The Journal of Indian Association of Physiotherapists

**DEPARTMENT OF PROSTHETICS AND ORTHOTICS**

<b><u>List of Research Publications (and Patents Filed) Prosthetics &amp; Orthotics Dept.</u></b>						
<b>Sr. No</b>	<b>Name of the Research Publication</b>	<b>Name of the Journal</b>	<b>Name of 1<sup>st</sup> Author</b>	<b>Name of 2<sup>nd</sup> Author</b>	<b>Name of 3<sup>rd</sup> Author</b>	<b>Publication Year</b>
1	Scoliosis Management by Milwaukee Brace: A Successful Orthotic Approach	Journal of Orthotic & Prosthetic Association of India	Ms. Sangeeta Nayak	Mr. Lukesh Bhuyar	Mr. A. G. Indalkar	2015
2	Review of Literature in P & O Field	Pre-Eminence : An International Peer Reviewed Research Journal, ISSN: 2249-7927, Vol.6, No.2/Jan-June 2016	Mr. Mohit Gupta	Mr. Girish Gupta		2016
3	Role of Assistive Technology at Developing Countries	Pre-Eminence : An International Peer Reviewed Research Journal, ISSN: 2249-7927, Vol.6, No.2/July-Dec 2016	Mr. Mohit Gupta	Mr. Shivam Gupta		2016
4	Performance Study of Quadrilateral Socket versus Anatomic Socket	Journal of Orthotic & Prosthetic Association of India	Mr. A.G. Indalkar	Mr. Jitendra Narayan		2019
5	Comparative Analysis between Rotationplasty Prosthesis made	Journal of Orthotic & Prosthetic	Mr. A.G. Indalkar	Mr. L.R. Bhuyar		2019

	with Foot in Full Plantar Flexion and Foot in 10 degrees Short of Full Plantar Flexion	Association of India				
6	Prosthetic Fitment 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
7	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
8	Transtibial Prosthesis with Provision for Squatting	Patent CBR No. 22028	Mr. A. G. Indalkar	Mrs. V. K. Pai	Mr. L. R. Bhuyar	2020
9	Anatomical Motion Prosthetic Knee Joint ( AMPKJ)	Patent CBR No. 26522	Mr. L. R. Bhuyar	Mr. Aqeel Maner	Mr. A. G. Indalkar	2020
10	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
11	Dual Mode Powered Wheelchair for Locomotor Disabled	Patent CBR No. 1591	Dr. Mahesh Choudhary	Mr. L.R.Bhuyar	Mrs. Vishakha Meshram	2021

12	Orthotic Management of Patient with Arthrogyposis Multiple Congenita – A Case Study	International Journal of Science and Research	Mrs. Urmila Naukudkar	Mr. Devidas Thakre		2022
13	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. Urmila Naukudkar	Ms. Carina Castello		2022
14	Non-Invasive Pin-less Halo Orthosis :	International Journal of Novel Research and Development	Mr. A.G. Indalkar	Mr. L.R. Bhuyar	Ms. Durgeshwari Kadam	2022
15	Dynamic Progressive Orthosis for Elbow Flexion Contractures	International Journal of Novel Research and Development	Mr. L.R. Bhuyar	Mr. Rushikesh Lipare		2022
16	Comparative Analysis of Solid AFO vis-a-vis Articulated AFO using Flexible Ankle Hinges in Children with Cerebral Palsy Spastic Diplegia with Age Group 5-12 years in Terms of Gait Parameters	International Journal of Health Science and Research	Mr. H.S. Dongare	Mr. Kishan Singh	Mr. L.R. Bhuyar	2022



17	Ambulating the “Different”: A Prosthetic Approach Towards Conservative Management of Congenital Anomalies	International Journal of Novel Research and Development	Mr. L.R. Bhuyar	Ms. Garima Sharma		2022
18	Prosthetic Design for Rotationplasty	Patent CBR No. 747	Mr. A.G. Indalkar	Mr. L.R.Bhuyar		2022
19	A Study of Self Esteem and Behavioural Changes Seen in Old vs New Amputees Using Lower Limb Prostheses	International Journal of Novel Research and Development	Mr. L.R.Bhuyar	Ms. Garima Sharma	Ms. Janvi Pandya Mr. Hritik Pawar	2022
20	3-D Printed Body Powered Cosmo-Functional Partial Finger Prosthesis with DIP and PIP Flexion, Facilitated by the Flexion of MTP Joint with the help of Linkage	International Journal of Innovative Research and Technology	Mr. L.R.Bhuyar	Mr. Neville Joshi		2022
21	Studies on Physiological Changes and Difference in Quality of Life in Dogs Fitted with Artificial Limb Prostheses	International Journal of Novel Research and Development	Mr. J.G.Bapat Mr. G.U.Yadav	Mr. D.U. Lokhande	Mr. A.G.Indalkar Mr. L.R.Bhuyar	2022

22	Studies on Designing and Development of Stump-Socket Prostheses in Dogs with Partially Amputated Limb	International Journal of Novel Research and Development	Mr. J.G.Bapat Mr. G.U.Yadav	Mr. D.U. Lokhande	Mr. A.G.Indalkar Mr. L.R.Bhuyar	2022
23	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
24	Application of Natural Fibers as Composite Materials in Fabrication of Trans-Tibial Prosthetic Sockets	International Journal of Science and Research	Mr. Bhagirath Jana	Mr. Makarand Saraf		2022
25	Lower Limb Orthotics: An Overview	International Journal of Health Sciences and Research	Mr. Manoj Kumar Tiwari			2022
26	A Comparative Study of the Performance of Solid AFO vis-à-vis Dynamic AFO in Hemiplegic Patients	International Journal of Health Sciences and Research	Ms. Monalisha Dash	Mr. Manoj Kumar Tiwari	Mr. Deepak Prabhu	2022

27	A Comparative Study of the Effectiveness of Indigenously Developed Knee Ankle Foot Orthosis with Stance Control Knee and Knee Ankle Foot Orthosis with Drop Lock Knee Joint in Post-Polio Residual Paralytic Patients	International Journal of Health Sciences and Research	Mr. Manoj Kumar Tiwari	Ms. Yogeeta Madkaikar	Mr. Deepak Prabhu	2022
28	Multi-Axial Prosthetic Foot	Patent CBR No. 29331	Mr. Devidas Thakre	Mr. M.K.Tiwari	Mr. Deepak Prabhu	2022
29	Clinical Practice in Prosthetics and Orthotics: A Pilot Study on Students Perception of the Effectiveness of the Integration of Research in the Undergraduate Curriculum	International Journal of Novel Research and Development	Mr. Manoj Kumar Tiwari	Mr. Deepak Prabhu	Ms. Mrunali Kalkotwar	2023
30	Design of an Indigenously Developed Patient Transfer Assistive Device	International Journal of Health Sciences and Research	Mr. Manoj Kumar Tiwari	Mr. Deepak Prabhu	Ms. Anuja Sharma	2023
31	Comparative Study between Indigenously Developed Multi-Axis Prosthetic	International Journal of Health Sciences and Research	Mr. Devidas Thakre	Mr. Manoj Kumar Tiwari	Mr. Deepak Prabhu	2023

	Foot and SACH Foot in terms of Gait Parameters and Energy Expenditure in the Patients with Unilateral Transtibial Amputation					
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<b>Scientific Papers Presented by Faculty of Department of Prosthetics and Orthotics</b>				
<b>Sr. No</b>	<b>Title</b>	<b>Conference/CRE</b>	<b>Presenter</b>	<b>Author</b>
1	Advances in Trans-Radial Socket Technology	CRE on Advancements in Upper Limb Prosthetics, conducted by Orthotics & Prosthetics Association of India and Prosthetic & Orthotic Training Section, Department of PMR Vardhman Mahavir Medical College and Safdarjang Hospital, New Delhi, 25-26th November 2017.	Mr. M.N.Saraf Mr. A.G.Indalkar	Mr. M.N.Saraf Mr. A.G.Indalkar
2	Evolving a Trans-Tibial Prosthetic Design to Suit the Lifestyle of Indian Amputees	XXIVth National Conference of Orthotics & Prosthetics Association of India, 27th to 29th January 2018, Lucknow	Mrs. Vaishali Pai	Mrs. Vaishali Pai, Mr. A.G.Indalkar
3	Role of Prosthetics in Disability Rehabilitation	Two days National Level seminar cum Continuous Rehabilitation Education (CRE) Program on Disability Rehabilitation organized by Red Cross's District Disability Rehabilitation Centre (DDRC) Patiala in association with Indian Association of Assistive Technologists (IAAT) 05th & 06th May 2018	Mr. M.N.Saraf	Mr. M.N.Saraf
4	Biomechanics of Knee Joint		Mr. A.G.Indalkar	Mr. A.G.Indalkar
5	Principles in the Orthotic Management of Knee in Sports Injuries	CRE on Advancement in Orthotic Management of Sports Related Injuries at AIIPMR, 12-13th October 2018	Mr. D.P.Prabhu	Mr. D.P.Prabhu
6	Prosthetic Management of Rotationplasty : A Case Study	1st National Conference of Indian Association of Assistive Technologists, organized by Swami Vivekananda National Institute of Rehabilitation Training & Research (SVNIRTAR) at Bhubaneswar from 22nd to 23rd December 2018	Mr. L. R. Bhuyar	Mr. A.G.Indalkar
7	Biomechanics of Trans-Femoral Prosthetics	CRE on "Advances in Prosthetic Knee Joints" on 13th August 2019 At MGM Institute of Health Sciences, Navi Mumbai	Mr. A.G.Indalkar	Mr. A.G. Indalkar

8	Prosthetic Management of Rotationplasty	CRE on Advances in the Prosthetic Management of Rotationplasty at AIIPMR, Mumbai from 19th – 20th October 2019	Mr. A.G. Indalkar	Mr. A.G. Indalkar
9	Practical Demonstration & Training on Measurement, Fabrication, Alignment and Fitment of Rotationplasty Prosthesis		Mr. D.P.Prabhu Mr.M.N. Saraf Mrs. U.M. Naukudkar	Mr. D.P.Prabhu Mr.M.N. Saraf Mrs. U.M. Naukudkar
10	Challenges in the Prosthetic Management of an Amputee with Spinal Cord Injury	2nd National Conference of the Indian Association of Assistive Technologists at Chandigarh from 22nd-23rd December 2019	Mr. M.N.Saraf	Mr. M.N.Saraf
11	Need Based Product Design	CRE on “Need Based Design” At MGM Institute of Health Sciences, Navi Mumbai on 6th January 2020	Mrs.U.M. Naukudkar	Mrs. U.M.Naukudkar
12	Challenges in the Orth-Prosthetic Management of Congenital Pseudo-Arthrosis of Tibia	25th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneshwar from 7th -9th February 2020	Mr. A.G.Indalkar	Mr. A.G.Indalkar
13	To Study the Efficacy of Custom Moulded Insoles in Reducing Peak Plantar Pressure and Improving Gait Parameters in Diabetic Patients	25th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneshwar from 7th -9th February 2020	Mrs.U.M. Naukudkar	Mrs. U.M.Naukudkar
14	Development of an Externally powered prosthetics Elbow Unit for Humeral Amputees	25th Annual National Conference of the Orthotics & Prosthetics Association of India at Bhubaneshwar from 7th -9th February 2020	Mrs. Deepshikha Raut	Mrs. Deepshikha Raut Mr. D.P.Prabhu
15	Advances in Orthotics & Assistive Technology in Neuro Rehabilitation	Fourth Asia Oceanian Congress of Neuro Rehabilitation 2021	Mr. L. R. Bhuyar	Mr. A. G. Indalkar
16	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 (NIEPMD) on 29th September 2021	Mr. A.G.Indalkar	Mr. A.G.Indalkar
17	Modified Non-Invasive Pin-Less Halo Device	XXVI National Conference Of The Orthotics And Prosthetics Association Of India from 28th to 30th March 2022 at Panjim Convention Centre, Goa	Ms. Durgeshwari Kadam	Mr. L.R.Bhuyar
18	Body Powered Prosthetic Finger for Partial Finger Amputees Using 3D Printing Technology	XXVI National Conference Of The Orthotics And Prosthetics Association Of India from 28th to 30th March 2022 at Panjim Convention Centre, Goa	Mr. Neville Joshi	Mr. L.R. Bhuyar

19	“Ambulating the Different” A Prosthetic Approach Towards Non-Surgical Management of Congenital Anomalies	XXVI National Conference Of The Orthotics And Prosthetics Association Of India from 28th to 30th March 2022 at Panjim Convention Centre, Goa	Ms. Garima Sharma	Mr. L.R.Bhuyar
20	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 from 28th to 30th March 2022 at Panjim Convention Centre, Goa	Mr. Bhagirath Jana	Mr. M.N.Saraf
21	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 25th and 26th April 2022	Mrs. U.M. Naukudkar	Mrs. U.M. Naukudkar
22	Integration of Additive Technology in the field of Prosthetics and Orthotics	Offline CRE On Hands On Training On Use Of Additive Technology In Orthotics held at All India Institute of Physical Medicine & Rehabilitation, Mumbai from 19th to 20th November 2022	Mr. Manoj Kumar Tiwari	Mr. Manoj Kumar Tiwari
23	Overview/ Evolution of Prosthetic Knee Joints	Hands on Workshop on Kadam Prosthetic Knee Joint in collaboration with Society for Biomedical Technology and Mobility India, Bangalore organized by All India Institute of Physical Medicine & Rehabilitation, Mumbai on 23rd & 24th January 2023	Mr. M.N.Saraf	Mr. M.N.Saraf
24	Need and Integration of Microprocessor Controlled Prosthetic Knee Joints in Lower Extremity Prosthetics	CRE on Hands on Training with Microprocessor Controlled Prosthetic Knee Joints at All India Institute of Physical Medicine & Rehabilitation, Mumbai on 25th & 26th February 2023	Mr. M.N.Saraf	Mr. M.N.Saraf
25	Orthotic Management of Spinal Cord Injury”	Annual Conference of Indian Federation of Neuro Rehabilitation on 15th April 2023 at MET, Bandra, Mumbai.	Mrs. U.M. Naukudkar	Mrs. U.M. Naukudkar
26	Microprocessors in Prosthetic Knee Joints: Need and Implementation	Online CRE on Robotics in P & O Field organized by the Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, Divyangjan, New Delhi from 21 June 2023 to 22nd June 2023	Mr. M.N.Saraf	Mr. M.N.Saraf

<b>LIST OF ONGOING AND COMPLETED PROJECTS OF DEPARTMENT OF PROSTHETICS &amp; ORTHOTICS (MPO STUDENTS)</b>				
<b>Sr. No</b>	<b>Dissertation Topic</b>	<b>Name of Student</b>	<b>Name of Guide</b>	<b>Academic Year</b>
1	Effectiveness of Supracondylar Suspension System in Knee Disarticulation Prosthesis	Ms. Shruti Jain	Mr. A.G.Indalkar	2015-2017
2	Comparative Study of Muenster Socket v/s Split Socket with Step up Hinge on Very Short Transradial Amputees	Ms. Rani Kumari	Mr. D.P .Prabhu	2015-2017
3	Effect of Adjustable Socket on Stump Volume Reduction in Transfemoral Stump	Mr. Parthsarathi Swain	Mr. M.N.Saraf	2015-2017
4	Comparative Study of Transfemoral Amputees Using Single Axis Weight Activated Knee Joint v/s Single Axis Knee Joint with Swing Phase Control	Mr. Abdul Mutalib Khan	Mr. M.N.Saraf	2016-2018
5	Design of Appropriate Prosthesis for Elbow Disarticulation Amputees	Mr. Bhabhani Shankar	Mr. D.P .Prabhu	2016-2018
6	The Comparative Analysis Between Rotation Plasty Prosthesis Made With Foot in Full Plantar Flexion and Foot in 100 short of Full Plantar Flexion	Mr. Lukeshkumar Bhuyar	Mr. A.G.Indalkar	2016-2018
7	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
8	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
9	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
10	Development and Testing the Effectiveness of Hands-Free Walker in Children with Cerebral Palsy	Mr. Akshay Babu	Mr. D.P .Prabhu	2018-2020
11	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
12	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

13	Comparative Analysis of the Performance of Solid ankle AFO vis-a-vis with Articulated AFO with Tamarack Ankle Joint in Cerebral Palsy Spastic Diplegic Patients in Terms of Gait Parameters.	Mr. Kishan Singh	Mr. H.S. Dongare	2019-2021
14	Kinematic analysis of Quadrilateral and Ischial Containment Socket for unilateral Transfemoral amputees.	Ms. Jyotiben Vora	Mr. M.N. Saraf	2019-2021
15	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
16	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
17	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
18	Device for analysis of Gait kinematic parameters	Ms. Mrunali Kalkotwar	Mr. M.K. Tiwari	2021-2023
19	Comparative study between PTB socket and CRS socket	Mr. Yashas Chumble	Mrs.U.M. Naukudkar	2021-2023
20	Comparative study between Munster socket and Split socket with step up hinges for short trans-radial stump	Ms. Vaishnavi C. Pawar	Mr. H.S. Dongare	2021-2023
21	Effect of Anterior Floor Reaction Orthosis on Gait Patterns and Energy Expenditure in CP Diplegic Children with Crouch Gait	Ms. Gauri Warik	Mr. H.S. Dongare	2022-2024
22	Comparative Study to Check the Effectiveness Between Anterior Ankle Foot Orthosis and Posterior Ankle Foot Orthosis in Hemiplegic Foot Drop Patients	Ms. Mansi Pathak	Mr. M.K. Tiwari	2022-2024
23	Comparative Study between Multi-Axial Prosthetic Foot and Solid Ankle Cushion Heel (SACH) Foot in terms of Gait Parameters and Energy Expenditure in Adult Unilateral Trans-Tibial Amputees	Mr. Mohib Quadri	Mr. M.N.Saraf	2022-2024



<b>LIST OF ONGOING AND COMPLETED PROJECTS OF DEPARTMENT OF PROSTHETICS &amp; ORTHOTICS (BPO STUDENTS)</b>				
<b>Sr. No</b>	<b>Title of the Project Work</b>	<b>Year</b>	<b>Name of the Student</b>	<b>Name of the Guide</b>
1	Modified HCTO	IV BPO 2017	Mr. Ambareesh A J	Mr.AG.Indalkar
2	Modified Cheneau Brace for Kypho-Scoliosis Correction	IV BPO 2017	Ms. Annapurna Mishra	Mr.AG.Indalkar
3	Limited Motion Ankle Joint	IV BPO 2017	Mr. Anoop S	Mr. D.R.Thakre
4	Adjustable Range of Motion Ankle Joint	IV BPO 2017	Ms. Sudha Rani Bade	Mrs. U.M.Naukudkar
5	Lightweight Prosthetic Foot	IV BPO 2017	Mr. Ravi Barela	Mr. H.S.Dongare
6	Dynamic Flexion Brace for Lumbar Spine	IV BPO 2017	Mr. Srujan Bhalerao	Mr.AG.Indalkar
7	Single Axis Ankle Joint for Syme's Prosthesis	IV BPO 2017	Ms. Sana Damania	Mr. M.N.Saraf
8	Step-Up Hinges with Gear for Below Elbow Protheses	IV BPO 2017	Mr. Deepak Kumar	Mrs. V. K.Pai
9	Hand Splint for Parkinson's disease	IV BPO 2017	Ms. Alisha Dhengre	Mr. L.R.Bhuyar
10	Weight Relieving Ankle Foot Orthosis	IV BPO 2017	Mr. Rohit Gaikwad	Mr. M. K Tiwari
11	Self-Pronation Assist Body Powered Below Elbow Prosthesis	IV BPO 2017	Ms. Prachi Khandekar	Mrs. V. K.Pai
12	Shock Absorbing Pylon with Foot	IV BPO 2017	Mr. Vijay Markad	Mr. Mohit Gupta
13	Extension Orthoprosthesis	IV BPO 2017	Mr. Ashish Awachat	Mr. D.R.Thakre
14	Newly Designed Orthosis for Congenital Dislocations of Hip	IV BPO 2017	Mr.Navraj Sinha	Mrs. U.M.Naukudkar
15	Single Axis Foot with Swing Phase Propulsion Assist	IV BPO 2017	Ms. Ruchira Panchal	Mr. Mohit Gupta
16	Low Profile Socket Adapter for Syme's	IV BPO 2017	Mr. Gaurish Salunke	Mrs. V. K.Pai
17	Load Shifting Brace for Genu Varum for Gradual Correction	IV BPO 2017	Ms. Nupur Sankhye	Mr. M. K Tiwari
18	Static Progressive Pronation & Supination Orthosis	IV BPO 2017	Mr. Shivam Gupta	Mrs. U.M.Naukudkar
19	Modified Philadelphia Collar with Turnbuckle	IV BPO 2017	Ms. Shivangi Tiwari	Mr.AG.Indalkar
20	Modified Moulded Ankle Foot Orthoses	IV BPO 2017	Mr. Sumedh Sugandhi	Mr. D.R.Thakre
21	Dynamic Brace for Scoliosis & Kyphosis	IV BPO 2017	Ms. Trishala Tavishi	Mr.AG.Indalkar
22	Wrist Driven Wrist Hand Orthosis with Ratchet Locking Mechanism	IV BPO 2017	Ms. Veda Halve	Mr. D.P.Prabhu
23	PET Bottle Socket with Quick Change Self Help Devices for Trans-Radial Amputees	IV BPO 2017	Ms. Vandana Rajpurohit	Mrs. V. K.Pai
24	Modified Clavicle Posture Support Brace	IV BPO 2017	Mr. Ashish Sonawane	Mr. L.R.Bhuyar
25	Foot Drop AFO Splint	IV BPO 2017	Mr. Nikhil Padwal	Mr. Kishan Singh
26	Articulated Knee Hyperextension Orthosis in Genu Recurvatum	IV BPO 2017	Mr. Soham More	Mr. H.S.Dongare
27	Walking Aid Elimination Crutches	IV BPO 2017	Ms. Yogeta Madkaikar	Mr. M. K Tiwari
28	Dynamic Exoskeletal Orthosis	IV BPO 2017	Mr. Ameya Kathale	Mr. L.R.Bhuyar
29	Kyphotic Brace with Height and Pressure Adjustment	IV BPO 2017	Mr. Ashutosh Pal	Mr. D.R.Thakre
30	Outside Locking Elbow Joint for Elbow Disarticulation Prosthesis	IV BPO 2017	Mr. Hasnain Khan	Mrs. V. K.Pai
31	Double Axial Orthotic Hip Joint	IV BPO 2017	Dharmendra Kumar	Mr. M. K Tiwari

32	Double Action Spring Loaded Ankle Joint	IV BPO 2018	Ms. Bhagyashree Doiphode	Mr. D.R.Thakre
33	Low Cost Running Prosthesis for Rotationplasty	IV BPO 2018	Mr. Kiran Gade	Mr. M.N.Saraf
34	Trans-Radial Audio Control Prosthesis	IV BPO 2018	Mr. Amol Jadhav	Mr. L.R.Bhuyar
35	Static Progressive Forearm Rotation Orthosis	IV BPO 2018	Mr. K. Abhilash Kumar	Mr. D.P.Prabhu
36	Modified Patellar Tendon Bearing (PTB) Orthosis	IV BPO 2018	Mr. Nehansh Mehta	Mrs. U.M.Naukudkar
37	Dynamic Pylon Foot Assembly of Trans-Tibial Prosthesis	IV BPO 2018	Ms. Maitreyee Nirgun	Mr. L.R.Bhuyar
38	Active CTEV Crawling Brace	IV BPO 2018	Mr. Shridhar Pandey	Mr. M. K Tiwari
39	Compression Release and Stabilized Socket and Casting Apparatus for the Same	IV BPO 2018	Ms. Mizab Tase	Mr. M.N.Saraf
40	Off Loading CROW Orthosis for Healing of Diabetic Foot Ulcer	IV BPO 2018	Mr. Vijay Kumar	Mr.AG.Indalkar
41	Multi-Functional Knee Orthosis	IV BPO 2018	Ms. Akanksha Gupta	Mr. M. K Tiwari
42	Orthoprosthesis with Gait Assistance for Syme's and Partial Foot Amputations	IV BPO 2018	Mr. Sudarshan Raskar	Mr. L.R.Bhuyar
43	Custom Moulded Total Contact Sitting Support Orthosis	IV BPO 2018	Ms. Vaishnavi Shrivastava	Mr.AG.Indalkar
44	Flexion and Extension Control of Orthotic Knee Joint	IV BPO 2018	Mr. Ashiq Ali	Mr. H.S.Dongare
45	Volume Adjustable Socket for Trans-Tibial Amputee	IV BPO 2018	Ms. Pratiksha Shelar	Mr. M.N.Saraf
46	Low Cost Energy Return Trans-Tibial Prosthesis with Interchangeable Pylon for Running and Walking	IV BPO 2018	Mr. Manish Maurya	Mr. L.R.Bhuyar
47	Design of Low Cost Prosthetic Knee Joint for Pediatrics	IV BPO 2018	Ms. Manisha Misal	Mr. L.R.Bhuyar
48	Gradual Correction and Juvenile Adjustable Knee Brace for Varum of the Knee	IV BPO 2018	Ms. Priya Varma	Mrs. U.M.Naukudkar
49	Adjustable Cranial Protection Helmet	IV BPO 2018	Mr. Rupesh Jadhav	Mr. M.N.Saraf
50	Low Cost Photopodscope	IV BPO 2019	Mr. A.V. Vipin	Mr. M. K Tiwari
51	Weight Activated Gait Initiative Prosthetic Hip Joint	IV BPO 2019	Mr. Bibhuti Sarangi	Mrs. U.M.Naukudkar
52	An Analysis on Change in Design of Basic Compression Release Stabilization Socket Casting Frame and its Impact on Trans-Tibial Amputee Stump and Gait	IV BPO 2019	Mr. Yashas Chumbale	Mr. L.R.Bhuyar
53	Single Axis Shoulder Joint using Disc Brake Mechanism for Shoulder Disarticulation Prosthesis	IV BPO 2019	Ms. Shrusha Kamble	Mr. H.S.Dongare
54	Mechanical Four Bar Linkage Polycentric Orthotic Knee Joint with Extension Assist	IV BPO 2019	Ms. Namita Sakhale	Mr. K.S.Meena
55	Modified Partial Foot and Syme's Prosthesis	IV BPO 2019	Ms. Jyoti Singh	Mr. D.R.Thakre
56	Low Cost Sports Prosthesis for the Congenital Case of Tibial Hemimelia	IV BPO 2019	Mr. Pratik Shinde	Mr. M.N.Saraf
57	New Knuckle Bender Splint	IV BPO 2019	Mr. Gulshan Gupta	Mr. A.G.Indalkar
58	Bathing Prosthesis for Trans-Tibial Amputation	IV BPO 2019	Mr. Shubham Karande	Mr. D.P.Prabhu
59	Low Cost Motorized Wheelchair for the Differently Abled & Elderly	IV BPO 2020	Mr. Sushil Dantala	Mr. A.G.Indalkar
60	Tremor Stabilizing Splint for Resting Hand Tremors	IV BPO 2020	Ms. Binish Shawl	Mr. D.R.Thakre
61	Adjustable Ankle Joint for Rehabilitation of Neurological Conditions	IV BPO 2020	Ms. Mrunali Kalkotwar	Mr. D.R.Thakre

62	Anatomical Motion Knee Joint: A New Design Concept of Prosthetic Knee Joint for Knee Disarticulation Amputation Prosthesis	IV BPO 2020	Mr. Aqeel Maner	Mr. L.R.Bhuyar
63	Socket Extractor Tool with Laser Line Apparatus	IV BPO 2020	Mr. Vivek Sharma	Mrs. U.M.Naukudkar
64	Universal Transtibial Prosthetic System for All Activity Levels	IV BPO 2020	Mr. Yogesh Zodge	Mr. M.N.Saraf
65	Knee Orthosis with Genucentric Knee Joint	IV BPO 2020	Ms. Priyanka Patil	Mrs. U.M.Naukudkar
66	Dynamic Torticollis Orthosis	IV BPO 2020	Mr. Nirmal Prasad	Mr. L.R.Bhuyar
67	Functional Dynamic Hand Splint	IV BPO 2020	Ms. Riddhi Shah	Mrs. V. K.Pai
68	Ulnar Deviation Splint with Dial Lock	IV BPO 2020	Ms. Kaveri Hiwale	Mrs. V. K.Pai
69	Low Cost Electric Hand	IV BPO 2020	Mr. Amal Ramanan	Mr. D.P.Prabhu
70	Off Loading Knee Brace	IV BPO 2020	Ms. Rajshri Bhende	Mrs. U.M.Naukudkar
71	Ischial Containment Casting Frame for Unilateral Trans-Femoral Amputee	IV BPO 2020	Ms. Shrutika Ranadive	Mr. M.N.Saraf
72	Pneumatic Foot Prosthesis	IV BPO 2020	Ms. Shreya Singh	Mr. Mohit Gupta
73	Cost Effective Transradial Prosthesis	IV BPO 2020	Ms. Vaishnavi Pawar	Mr. L.R.Bhuyar
74	Neurophysiologic Ankle Foot Orthosis	IV BPO 2020	Ms. Vaibhavi Sawant	Mr. M. K Tiwari
75	Custom Moulded Sitting Support Orthosis	IV BPO 2020	Ms. Rohini Karande	Mr. D.R.Thakre
76	Snapper Cane	IV BPO 2020	Mr. Hridaynath Yadav	Mr. Mohit Gupta
77	Mechanical Dynamic Supination Splint	IV BPO 2020	Ms. Komal Kadolkar	Mr. Mohit Gupta
78	Designing a Dynamic Club Foot Splint for Infants	IV BPO 2020	Ms. Tara Vishwakarma	Mr. H.S.Dongare
79	Spring Loaded Knee Support for Osteo-Arthritis	IV BPO 2020	Ms. Shivani Mule	Mr. D.R.Thakre
80	Wrist Orthosis for Treating Carpal Tunnel Syndrome	IV BPO 2020	Ms. Pratibha Narawade	Mrs. V.K.Pai
81	Adjustable Above Knee Socket for Volume Fluctuation Control	IV BPO 2020	Ms. Neha Tomar	Mr. D.P.Prabhu
82	Crutches Replaces to Prosthesis	IV BPO 2020	Mr. Vaibhav Thakre	Mr. M.N.Saraf
83	Pediatric Posterior Walker	IV BPO 2020	Ms. Vaibhavi Pawar	Mr. D.R.Thakre
84	Comparative Study Between Pre-peg Carbon Fibre AFO and Thermoplastic AFO	IV BPO 2021	Mr. Shail Chavda	Mr. M.N.Saraf
85	Cosmetic Flexion Contracture Elbow Orthosis	IV BPO 2021	Mr. Rushikesh Lipare	Mr. L.R.Bhuyar
86	Prosthetic Socket Fabrication from Natural Fiber Reinforced Polymer Composite.	IV BPO 2021	Mr. Bhagirath Jana	Mr. M.N.Saraf
87	A device for the management of mild foot drop	IV BPO 2021	Mr. Rushikesh Chavan	Mrs. U.M.Naukudkar
88	Multipurpose Dorsiflexion Assist Device for Foot Deformity.	IV BPO 2021	Mr. Shivam Gupta	Mr. D.P.Prabhu
89	AFO for Prevention of Plantar Flexion Contracture	IV BPO 2021	Ms. Samyaka Bavaskar	Mr. D.R.Thakre
90	Weight Relieving KAFO for Tibial Fractures	IV BPO 2021	Ms. Janvi Pandya	Mrs. U.M.Naukudkar
91	AK Socketless Socket.	IV BPO 2021	Ms. Snehal Changule	Mr. M.N.Saraf
92	Shock Absorbing Elbow Crutch	IV BPO 2021	Ms. Yukta Panchal	Mr. M.K.Tiwari
93	Anti -Spasticity Ball Splint for Hand and Wrist Stabilization	IV BPO 2021	Ms. Himani Umale	Mr. H.S.Dongare
94	Gait Initiation and Termination	IV BPO 2021	Ms. Nikita Bagle	Mr. Mohit Gupta

95	Partial Finger Prosthesis	IV BPO 2021	Mr. Neville Joshi	Mr. H.S.Dongare
96	Universally Sustainable Assistive Mobility for Disabled in Developing Country like India - REDO TRICYCLE.	IV BPO 2021	Ms. Mansi Pathak	Mr. M.K.Tiwari
97	Ankle Foot Orthosis Dorsiflexion Assist for Foot Drop	IV BPO 2021	Mr. Shekhar Gupta	Mr. D.R.Thakre
98	Non-Invasive HALO Brace	IV BPO 2021	Ms. Durgeshwari Kadam	Mr. L.R.Bhuyar
99	Pneumatically Modified TLSO System For Idiopathic Scoliosis	IV BPO 2022	Mr. Ajith Kumar V	Mrs. U.M.Naukudkar
100	Orthotic Brace For Humeral Fracture	IV BPO 2022	Mr. Anand Kumar Kishor	Mr. L.R.Bhuyar
101	Static Progressive Orthosis	IV BPO 2022	Ms. Aisha Ansari	Mr. L.R.Bhuyar
102	Partial Hand Prosthesis	IV BPO 2022	Ms. Apoorva Singh	Mr. M.N.Saraf
103	Syme's Prosthesis With Stove Pipe Design	IV BPO 2022	Mr. Hammad Ansari	Mr. M.N.Saraf
104	Elbow Joint for Elbow Disarticulation Prosthesis	IV BPO 2022	Ms. Bhoomiksha Rathore	Mr. M.N.Saraf
105	Hydraulic Control At Ankle Of Trans Tibial Prosthesis	IV BPO 2022	Mr. Dipin Raj R.S	Mr. D.R.Thakre
106	Footwear For Diabetic Ulcers	IV BPO 2022	Ms. Meera Gupta	Mr. D.P. Prabhu
107	Modified Leaf Spring AFO	IV BPO 2022	Ms. Anjali Jamkar	Mr. D.R.Thakre
108	Post- Operative Hinged Elbow Brace	IV BPO 2022	Ms. Sanika Karande	Mr. L.R.Bhuyar
109	Articulating Prosthetic Foot	IV BPO 2022	Mr. Katyayan Sharma	Mr. D.R.Thakre
110	Articulating AFO For Cerebral Palsy	IV BPO 2022	Ms. Kasturi Kaware	Mrs. U.M.Naukudkar
111	Adjustable KAFO	IV BPO 2022	Ms. Riyanka Sah	Mr. H.S. Dongre
112	Articulated Floor Reaction Orthosis For Children With Crouch Gait Pattern In Cerebral Palsy	IV BPO 2022	Ms. Komal Shrivastava	Mrs. U.M.Naukudkar
113	Hinged Convertible AFO	IV BPO 2022	Ms. Neha Mathpati	Mrs. V. K.Pai
114	Foot Imprinter	IV BPO 2022	Ms. Anjali Maurya	Mr. M.K.Tiwari
115	Split Hook Terminal Device	IV BPO 2022	Ms. Vaishnavi Mulmandkar	Mr. Kishan Singh Meena
116	Modified AFO For Foot Ulcer	IV BPO 2022	Ms. Sayali Narkhede	Mrs. U.M.Naukudkar
117	Dynamic Orthotic Device For Foot Drop	IV BPO 2022	Mr. Viraj Patil	Mr. H.S. Dongre
118	Transfer Device For Spinal Cord Injury	IV BPO 2022	Mr. Hritik Pawar	Mr. M.K.Tiwari
119	Detachable KAFO With Knuckle Joint	IV BPO 2022	Ms. Komal Phad	Mrs. V. K.Pai
120	Pressure Relieving AFO For Diabetic Foot	IV BPO 2022	Ms. Rukmini Sonewad	Mrs. V. K.Pai
121	Accommodative Equinus Brace	IV BPO 2023	Ms. Aditi Agare	Mrs. U.M.Naukudkar
122	Manual Stair Climbing C.P. Chair	IV BPO 2023	Ms. Riya Amburle	Mrs. U.M.Naukudkar
123	Modified Walker	IV BPO 2023	Mr. Talib Ahmed	Mr. L.R.Bhuyar
124	Apparatus to measure Limb Length Discrepancy and Heel Equinus Raise	IV BPO 2023	Mr. Krunal Chaudhari	Mr. H.S Dongre
125	Powered Elbow Hinges for Very Short Transradial Prosthesis	IV BPO 2023	Ms. Aasawari Choudhary	Mr. L.R.Bhuyar
126	Myoelectric Wrist Hand Orthosis	IV BPO 2023	Mr. Nikhil Dongre	Mr. L.R.Bhuyar
127	Night Splint with Turnbuckle	IV BPO 2023	Mr. Luyesh Iyer	Mr. Rishabh Gupta
128	Pectus Brace for Pigeon Chest	IV BPO 2023	Ms. Nidhi Khedu	Mr. K.S.Meena
129	Static Progressive Wrist Hand Orthosis with Self Help Attachment	IV BPO 2023	Ms. Rashi Kothari	Mrs. U.M.Naukudkar

130	Scoliosis Brace	IV BPO 2023	Ms. Shivani Mangekar	Mr. D.R.Thakre
131	3D Printed Electric Hand	IV BPO 2023	Ms. Mehala Devi N	Mr. M.K.Tiwari
132	Prosthetic Foot	IV BPO 2023	Mr. Prathamesh Patole	Mr. D.R.Thakre
133	Stance Control KAFO for Polio Patients with Pneumatic Assist	IV BPO 2023	Mr. Abhishek Pawar	Mr. H.S Dongre
134	Spinal Brace for Scoliosis	IV BPO 2023	Ms. Shivani Pawar	Mr. D.R.Thakre
135	Static Progressive Torticollis Brace	IV BPO 2023	Ms. Ritika Rajak	Mrs. U.M.Naukudkar
136	Spinal Orthosis	IV BPO 2023	Mr. Sanwarmal Tard	Mrs. V. K.Pai
137	Ankle Foot Orthosis with Modified Ankle Joint for Stroke Patients	IV BPO 2023	Ms. Krutika Satpute	Mrs. V. K.Pai
138	Pressure Sensitive Device for Precise Heel Positioning in Ankle Foot Orthosis	IV BPO 2023	Mr. Shaikh Mohd. Fardeen	Mr. L.R.Bhuyar
139	Freedom Leg/Hands-free Crutch	IV BPO 2023	Ms. Payal Sharma	Mr. D.R.Thakre
140	Indigenous Two Planar Adjustable PTB prosthesis	IV BPO 2023	Ms. Dnyanada Shitole	Mr. M.K.Tiwari
141	Flexion Wrist Unit	IV BPO 2023	Ms. Pooja Suthar	Mr. M.N.Saraf
142	Turn-Buckle Splint for Genu Valgum	IV BPO 2023	Ms. Samruddhi Swami	Mrs. V. K.Pai
143	Prosthetic Body Powered Finger for Partial Hand Amputation	IV BPO 2023	Mr. Daksh Tiwari	Mr. M.N.Saraf
144	Dynamic Assist Orthosis for Brachial Plexus Injury	IV BPO 2023	Ms. Pallavi Tudamwar	Mr. D.R.Thakre
145	PTB SC Socket with Hook & Loop Suspension	IV BPO 2023	Mr. Ankit Wankhade	Mr. H.S Dongre
146	New Medial Reciprocal Linkage Using a Lower Limb Paralysis Simulator	IV BPO 2023	Ms. Nisha Wankhade	Mr. D.R.Thakre

**List of Seminars / Workshops / Symposia/CREs**  
**Organized by the Department/Institute (P&O Department)**

Sr. No	Conference/Seminar/Workshop	Location/Dates
1	CRE On Fabrication And Fitment Of Myoelectric Trans-Radial Protheses	All India Institute of Physical Medicine & Rehabilitation, Mumbai 3 <sup>rd</sup> -4 <sup>th</sup> February 2018
2	CRE on Advancements in Orthotic Management of Diabetic Foot	All India Institute of Physical Medicine & Rehabilitation, Mumbai 17 <sup>th</sup> & 18 <sup>th</sup> March 2018
3	CRE On Advancement In Orthotic Management Of Sports Related Injuries	All India Institute of Physical Medicine & Rehabilitation, Mumbai 12 <sup>th</sup> & 13 <sup>th</sup> October 2018
4	CRE on Advances in the Prosthetic Management of Rotationplasty	All India Institute of Physical Medicine & Rehabilitation, Mumbai 19 <sup>th</sup> & 20 <sup>th</sup> October 2019
5	CRE on Hands on Training on Use of Additive Technology in Orthotics	All India Institute of Physical Medicine & Rehabilitation, Mumbai 19 <sup>th</sup> & 20 <sup>th</sup> November 2022

6	Hands on Workshop with Kadam Prosthetic Knee Joint in collaboration with Society for Biomedical Technology and Mobility India, Bangalore	All India Institute of Physical Medicine & Rehabilitation, Mumbai 23 <sup>rd</sup> & 24 <sup>th</sup> January 2023
7	CRE on Hands on Training with Microprocessor Controlled Prosthetic Knee Joints	All India Institute of Physical Medicine & Rehabilitation, Mumbai 25 <sup>th</sup> & 26 <sup>th</sup> February 2023

**LIST OF TRAINING PROGRAMMES (CONFERENCES / SEMINARS / CREs / WORKSHOPS) ATTENDED BY CORE FACULTY (P&O Department)**

Sr. No	Conference/Seminar/Workshop	Names of Attendees	Location/Dates
1	CRE on Advancements in Upper Limb Prosthetics, conducted by Orthotics & Prosthetics Association of India and Prosthetic & Orthotic Training Section, Department of PMR Vardhmaan Mahavir Medical College and Safdarjang Hospital, New Delhi, 25-26th November 2017.	1. Mr. M.N.Saraf 2. Mr. A.G.Indalkar	Vardhmaan Mahavir Medical College and Safdarjang Hospital, New Delhi, 25-26th November 2017.
2	XXIVth National Conference of Orthotics & Prosthetics Association of India,	1. Mr. A.G.Indalkar 2. Mr. D.P.Prabhu 3. Mrs. V. K.Pai	27th to 29th January 2018, Lucknow
3	Two days National Level seminar cum Continuous Rehabilitation Education (CRE) Program on Disability Rehabilitation organized by Red Cross's District Disability Rehabilitation Centre Patiala in association with Indian Association of Assistive Technologists (IAAT)	1. Mr. M.N.Saraf	Patiala / 05th & 06th May 2018
4	Specialized Course on Transfemoral Prosthesis with Ischial Containment Socket held at Mobility India, Bangalore in collaboration with the International Committee of the Red Cross (ICRC) and Human Study Germany	1. Mr. M.N.Saraf	Mobility India, 2nd September to 9th September 2018 (Hands on Training & Examination)
5	CRE On Advancement In Orthotic Management Of Sports Related Injuries	1.Mr.A.G.Indalkar 2.Mr.D.P.Prabhu 3. Mr. H.S.Dongare 4. Mr. M.N.Saraf 5. Mr. M.K.Tiwari 6. Mrs. U.M.Naukudkar 7.Mrs.V. K.Pai 8. Mr. Lukesh Bhuyar	All India Institute of Physical Medicine & Rehabilitation, Mumbai / 12th & 13th October 2018
6	1st National Conference of Indian Association of Assistive Technologists, organized by Swami Vivekananda National Institute of Rehabilitation Training & Research (SVNIRTAR)	1. Mr. Lukesh Bhuyar	Bhubaneshwar / 22nd & 23rd December 2018

7	Two Day CRE on “Principles of Amputee Rehabilitation : Current Perspectives”	Mr. H.S.Dongare	Artificial Limb Centre, Pune from 11th -12th May 2019
8	National Conference on Assistive Technology for ALL-2030 organized by Mobility India, Bangalore in collaboration with National Institute for Empowerment of Persons with Disabilities (NIPMED) and International Committee of Red Cross (ICRC).	Mr. H.S.Dongare	NIMHANS, Bangalore from 2nd-3rd August 2019
9	MEDIC – Medical Device Innovation Camp	Mr. A.G.Indalkar Mr. L. R. Bhuyar	Indian Institute of Technology, Bombay, 28th Sept - 2nd October 2019
10	CRE on “Advances in Prosthetic Knee Joints”	Mr. A.G.Indalkar	MGM Institute of Health Sciences, Navi Mumbai on 13th August 2019
11	CRE on Advances in the Prosthetic Management of Rotationplasty	Mr. A.G.Indalkar Mr. D.P.Prabhu Mr. H.S.Dongare Mr. M.N.Saraf Mr. M.K.Tiwari Mrs. U.M.Naukudkar Mrs. V.K.Pai Mr. L. R. Bhuyar Mr. D.R.Thakre	AIIPMR, Mumbai from 19th – 20th October 2019
12	2nd National Conference of the Indian Association of Assistive Technologists	Mr. M.N.Saraf Mrs. Vaishali Pai	Chandigarh from 22nd -23rd December 2019
13	CRE on “Need Based Design”	Mrs. U.M.Naukudkar	MGM Institute of Health Sciences, Navi Mumbai on 6th January 2020
14	25th Annual National Conference of the Orthotics & Prosthetics Association of India	Mr. A.G.Indalkar Mr. D.P.Prabhu Mrs. U.M.Naukudkar	Bhubaneswar from 7th -10th February 2020
15	Webinar on Advances in Adolescent Idiopathic Scoliosis	Mr. A.G.Indalkar	Composite Rehabilitation Centre (CRC) Gorakhpur under National Institute of Empowerment of Persons with Multiple Disabilities (NIEPMD) on 29th September 2021.
16	Current Rehabilitation Methods for Cerebral Palsy	Mrs. U.M.Naukudkar	Organized by International Committee of the Red Cross (ICRC), Human Study, Germany; International Society for Prosthetics & Orthotics (ISPO) and Orthotics & Prosthetics Association of India (OPAI) from 29th October 2021 to 2nd December 2021
17	Grippy : Affordable Semi-Bionic Hand that Feels like a Real Hand	Mr. M.N.Saraf Mrs. U.M.Naukudkar	Online Webinar conducted by Indian Association of Assistive

		Mr. D.R.Thakre	Technologists on 27th November 2021
18	Early Detection of Skeletal Disorders in Children and their Treatment & Impact	Mr. D.R.Thakre	Online Webinar conducted by Composite Regional Centre for Skill Development, Rehabilitation and Empowerment of Persons with Disabilities (CRC)- Lucknow on 1st December 2021
19	Webinar on “Transformation of Indian Healthcare Digitally”	Mr. L. R. Bhuyar	Online Webinar by Indian Institute of Technology, Kanpur on 19th December 2021
20	CRE on Early Intervention in Congenital Anomalies	Mrs. U.M.Naukudkar	Online Webinar organized by the National Institute of Locomotor Disabilities (Divyangjan), Kolkata on 10th and 11th February 2022
21	CRE on Functional Orthoses in Fracture Management	Mrs. U.M.Naukudkar	Online Webinar organized by the National Institute of Locomotor Disabilities (Divyangjan), Kolkata on 3rd and 4th March 2022
22	26th Annual National Conference of the Orthotics & Prosthetics Association of India (OPAI)	Mr. L. R. Bhuyar	Panjim Convention Centre, Goa 28/03/2022 to 30/03/2022
23	Online CRE on Lower Extremity Exoskeleton System	Mr. M.N.Saraf	Online CRE organized by Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 7th and 8th March 2022
24	Online CRE on Advancements in Spinal Orthotics	Mrs. U.M.Naukudkar	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, New Delhi on 25th and 26th April 2022
25	Hand on Workshop on “Kadam” Prosthetic Knee Joint	Mr. M.N.Saraf Mrs. U.M.Naukudkar	Mobility India, Bangalore with DRDO on 08.09.2022 to 09.09.2022 at Mobility India Bangalore
26	CRE on CAD-CAM in Prosthetics & Orthotics (3D Scanning and Basic Functioning of 3D Printing Machine)	Mr. M.N.Saraf Mr. M.K.Tiwari Mrs. U.M.Naukudkar	National Institute of Empowerment of Persons with Multiple Disabilities (NIEPMD) on 22nd & 23rd September 2022
27	Webinar on Exploring Opportunities in Medical Sector with Additive Manufacturing"	Mr. M.N.Saraf Mr. M.K.Tiwari Mrs. U.M.Naukudkar	Online Webinar conducted by National Centre for Additive Manufacturing (NCAM) in association with Orthotics & Prosthetics Association of India on 30th September 2022



28	MUHS MET Mixed Reality Training Workshop	Mr. M.N.Saraf Mrs. U.M.Naukudkar Mr. D.R.Thakre	Maharashtra University of Health Sciences, Nashik on 6th October 2022
29	CRE on Prosthetic Management of Hip Disarticulation Amputee	Mr. H.S.Dongare	MGM Institute of Health Sciences, Navi Mumbai on 7th and 8th October 2022
30	CRE Workshop on Cosmetic Finger Restoration and Maxillofacial Prosthesis	Mr. M.N.Saraf Mrs. U.M.Naukudkar Mr. K. S. Meena	Offline CRE Conducted by Orthotics & Prosthetics Association of India (UP State Branch) at Composite Regional Centre, Lucknow on 5th & 6th November 2022
31	CRE on Hands on Training on use of Additive Technology in Orthotics	Mr. D.P.Prabhu Mr. H.S.Dongare Mr. M.N.Saraf Mr. M.K.Tiwari Mrs. U.M.Naukudkar Mr. L. R. Bhuyar Mr. K. S. Meena	Offline CRE conducted by AIIPMR on 19th & 20th November 2022
32	3rd National Conference of Indian Association of Assistive Technologists	Mrs. V. K.Pai Mr. L. R. Bhuyar Mr. K. S. Meena	MGM Institute of Health Sciences, Navi Mumbai from 22/12/2022 to 23/12/2022
33	Hands on Workshop with Kadam Prosthetic Knee Joint in collaboration with Society for Biomedical Technology and Mobility India, Bangalore	Mr. D.P.Prabhu Mr. H.S.Dongare Mr. M.N.Saraf Mrs. U.M.Naukudkar Mr. L. R. Bhuyar Mr. K. S. Meena Mr. Devidas Thakre	All India Institute of Physical Medicine & Rehabilitation, Mumbai from 23/01/2023 to 24/01/2023
34	CRE on Hands on Training with Microprocessor Controlled Prosthetic Knee Joints	Mr. D.P.Prabhu Mr. H.S.Dongare Mr. M.N.Saraf Mrs. U.M.Naukudkar Mrs. V. K.Pai Mr. L. R. Bhuyar Mr. D.R.Thakre	All India Institute of Physical Medicine & Rehabilitation, Mumbai 25th & 26th February 2023
35	Online CRE on Robotics in P & O Field	Mr. M.N.Saraf Mr. Rishabh Gupta	Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities, Divyangjan, New Delhi from 21 June 2023 to 22nd June 2023

**DEPARTMENT OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

<b>Sr.No</b>	<b>Title</b>	<b>Conference/Workshop</b>	<b>Presenter</b>	<b>Author</b>
1	“Speech Language Pathologist and Occupational Therapist : Coinciding Trails”	Indian Speech and Hearing Association- Maharashtra Branch (MISHACON) 2017 Thane	Mrs. Archana Acharya	Mrs. Archana Acharya
2	“Management of Aphasia”	Indian Association of Physical Medicine and Rehabilitation (IAPMR-CON) 2019	Mrs. Archana Acharya	Mrs. Archana Acharya

**Workshop Attended**

<b>Sr.No</b>	<b>Title</b>	<b>Workshop</b>	<b>Attendant</b>
1	Hands on Implantable Hearing Devices	14 <sup>th</sup> & 15 <sup>th</sup> March 2019 at AYJNINH, Mumbai	Mrs. Archana Acharya
2	Hands on Training on MATLAB “Theory and Practice : Applications in Hearing, Speech and Language	Bharati Vidyapeeth, Pune (Deem University) on 8 <sup>th</sup> & 9 <sup>th</sup> April, 2019.	Mrs. Archana Acharya
3	Workshop on “App Based Rehabilitation in Children and Adults with Communication Disorders	B.Y.L.Nair Hospital, Mumbai 10 <sup>th</sup> & 11 <sup>th</sup> January, 2020.	Mrs. Archana Acharya

**List of ongoing Projects**

<b>Sr.No</b>	<b>Title</b>	<b>Update</b>	<b>Attendant</b>
1	Survey about Hearing Awareness in Public via google forms	Since August, 2020 at AIIPMR, Mumbai  Data collected 700.	Mrs. Archana Acharya
2	Hearing profile of young Adult's age 18-25 yrs. With High Frequently Audiometry	Since March, 2022 at AIIPMR, Mumbai  Data collected 108.	Mrs. Archana Acharya
3	Development of Diagnostic Aphasia Test in Marathi. Test is constructed and due for validation.	Since August, 2021 at AIIPMR, Mumbai  Due for validation.	Mrs. Archana Acharya

**Conferences attended**

<b>Sr.No</b>	<b>Title</b>	<b>Conference</b>	<b>Attendant</b>
1	Teamwork : together we excel ..... let connect the dots.	Indian Speech and Hearing Association- Maharashtra Branch (MISHACON) 2017 Thane	Mrs. Archana Acharya
2	Evidence Based Practice in ASLP, lets learn through cases.	Indian Speech and Hearing Association- Maharashtra Branch (MISHACON) 2019 Pune	Mrs. Archana Acharya
3	Clinical and Academic Updates in Audiology and Speech Language Pathology (ASLP).	Indian Speech and Hearing Association- Maharashtra Branch (MISHACON) 2021 Nashik	Mrs. Archana Acharya

**DEPARTMENT OF VOCATIONAL GUIDANCE**

<b>1</b>	<b>Details of conference, CRE and workshops held during the period 2017 onwards</b>	-	NIL
<b>2</b>	<b>Details of the published articles</b>	-	NIL
<b>3</b>	<b>List of Ongoing/completed projects</b>	-	NIL
<b>4</b>	<b>List of Scientific Paper Presentation</b>	-	NIL

**5. Details of In-service Training by the employees**

<b>Sr.No</b>	<b>In-service Training</b>	<b>Attendant</b>
1	Completed Karmyogi Prarambh Module conducted by DoPT	Shri. Rizwan Hassan Bhat Smt. Sharma Suman Balarambhai

**6. List of Research Publications**

<b>Sr.No</b>	<b>Title</b>	<b>Update</b>	<b>Attendant</b>
1	Paper Title	Internet addiction and Mental Health during Covid-19 pandemic  Journal Name : European online Journal of Natural and social sciences, 2022  Vol.11, No.4. PP.241-1249  ISSN No. 1805-3602	Shri. Rizwan Hassan Bhat