

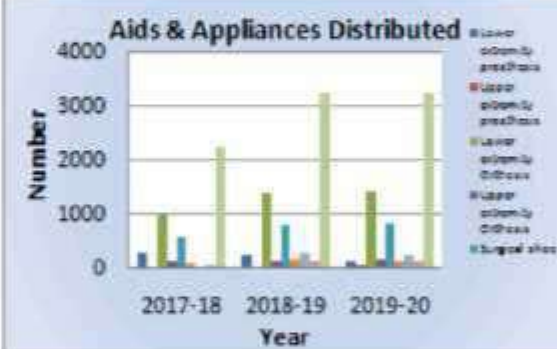


DEPARTMENT OF PROSTHETICS & ORTHOTICS

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Department of P&O involved in major functions like human resource development in both undergraduate and post graduate level and to provide customized aids and appliances and other assistive devices to persons with locomotor disabilities through both Institutional based services and outreach services under ADIP Scheme of Govt. of India. Institutional direct service includes detail assessment and fabrication of customized prosthetic and orthotic devices to indoor and outdoor patients.

The department is equipped with number of advance machineries like Hot Air Thermoplastic oven, low temperature thermoplastic Hot water pan, Router cum dust collector, other imported Router cum dust collector, grinding machine with dust collector, adjustable drilling machine, shearing belt grinder, Air Compressor and various hand tools.



Direct service activity:

No of cases registered	2017-2018	2018-19	2019-2020
New cases	2896	3095	2308
Follow up cases	612	791	735
Total cases	3508	4066	3043

Aids and Appliances Provided:

Appliances wise P & O services	2017-18	2018-19	2019-20
Lower extremity prosthesis	285	267	157
Upper extremity prosthesis	41	35	66
Lower extremity Orthosis	986	1411	1450
Upper extremity Orthosis	148	160	171
Surgical shoe	603	797	867
Spinal orthosis	110	175	156
Mobility aids	--	297	269
Repairing of appliances	76	135	130
Total	2249	3277	3266



Academic Activity :

Department of P&O conducts Bachelor of Prosthetics and Orthotics (BPO) (duration - 4 ½ Yrs.) and Masters of Prosthetic and orthotics (MPO) (duration- 2 years) program in the institute. These academic programs are under affiliation of West Bengal University of Health Sciences and registered under Rehabilitation Council of India (RCI).

Details of admission in Bachelor of Prosthetics and Orthotics (BPO) & MPO during 2019-20 :

Course	Intake Capacity	TOTAL ADMISSION		
		2017	2018	2019
BPO	34	34	33	34
MPO	06	05	04	05

Other important Academic Activities :

- Clinical and academic activities were performed in the department.
- Inter student were directly exposed and interact with patient for better understanding of condition and fabricate P & O devices independently, minimum number of 35 cases in duration of 6 months of internship.
- Final year student prepared project work related with P & O under the guidance of the faculties of the department.
- MPO student prepared thesis related with P & O under the guidance of the faculties of the department.
- Academic classes for both MPO & BPO were conducted by smart learning process.
- MPO students were exposed to gait lab for thesis related work.
- Campus interview conducted for BPO & MPO students.
- BPO & MPO attended OPAI-2020 conference at Bhubaneswar on Feb, 2020
- Study tour, 2019: conducted for BPO final year students in the month of March, 2019, wherein the students were accompanied by two faculties.





- Four post graduate Dissertation work was conducted and submitted to the West Bengal University of Health Sciences, Kolkata under the guidance of faculty members of P&O department:
 1. A comparative study between Patella Tendon Bearing Supracondylar (PTB-SC) and Total Surface bearing (TSB) Socket on energy expenditure in subjects with Transtibial amputees on two surface walking : Manjesh Kumar (MPO18-20)
 2. A comparative study between two different variants of floor reaction orthosis on gait balance and quadriceps muscle profile in subjects with spastic cerebral palsy having crouch gait. Swati Sucharita Giri, (MPO 18-20).
 3. Effect of customized insole on foot pressure distribution and gait kinetic parameters in subject with diabetic neuropathy. Arpita Nayak (MPO 18-20)
 4. A comparative study between William orthosis and moulded lumbo sacral orthosis on gait kinetics parameters and slippage index in subjects with spondylolisthesis: Mrityunjay Kumar (MPO 18-20)



Activities (Workshop/ Seminar/conference) in the Department of Prosthetics and Orthotics attended by faculties/staff/training of staff :



Workshop organized by Department :

Pre alumini workshop organized by Department of P & O on “Advance concept and technique in silicon Prosthesis” in the month of December, 2019.



- ISHT-2019 conference held on September, 2019 at Puri attended by Mr. Abhishek Tripathi.



- Sh. Aratran Patra attended the short term training program to sensitize the stake holders as Resource person at Dimapur-Nagaland, Raidighi-West Bengal, Agartala-Tripura and 1st Annual day of CRC Tripura & IDPD-2020 at CRC Agartala, attended a program for PWDs at B R Ambedkar International Centre, New Delhi, Inspection of 8 acres of land for CRC Tripura with Director, NILD, Kolkata, participated in India International Science Festival, Kolkata.



- Assistive technologies Conclave and Expo for Divyangjan (IISF 2019) held on November, 2019 at Science city, Kolkata, attended by Faculties and students. Poster presentation by students.





- Mr. Abhishek Tripathi attended CRE as a speaker on Lower limb Prosthetics at Patna on January 2020, organized by Department of Physical medicine and rehabilitation, AIIMS, Patna.



- Head of the Department attended as a resource person on International post graduate orthopedic instruction course along with other staffs organized by west Bengal orthopedic association on January, 2020 held at IPGMER & SSKM Hospital, Kolkata.



- Training of Trainers (TOT) program at Bangalore, attended by NILD faculties :





- Chaired a session at IACP National conference at Guwahati, Chairman Scientific Committee at OPAI-2020 National Conference held at Bhubaneswar, attended ISPO World Congress at Kobe Japan.



- Ms. Poly Ghosh attended as a Resource Person for Preconference workshop of OPAI, 2020 on topic of "Fabrication techniques and procedure of maxillofacial and extremity silicone prosthesis, held on 6th February, 2020 at KIIT university, Bhubaneswar.



- Faculties attended national conference of OPAI, 2020 held on February, 2020 at KIIT University, Bhubaneswar.





- Mr. Dhruvi Sundar Das & Ms. Poly Ghosh attended Hands on workshop on "CAD-CAM transtibial socket" on February, 2020 organized by SVNIRTAR, Odisha.



- Course Coordinator meeting at Kolkata attended by faculty (department of P&O) on 28th and 29th February, 2020:



- Sh. Aratran Patra attended camps at Dimapur, Mokokchung, Mankolemba and Kohima in Nagaland, Mamidpally, Toopran, Suryapet, Choutapal in Telangana, Ullikurriki, Chengalpattu in Tamilnadu, Dapar, SAS Nagar in Punjab, Silchar-Assam, Pakur-Jharkhand, NTPC-Dadri, NTPC-Farraka, Katwa, Agradwip, and Bhatpada in West Bengal.





Visits to the department :

- ICRC committee member visited department of Prosthetics & Orthotics on October, 2019



RCI INSPECTION FOR MPO AND BPO COURSE HELD ON JANUARY, 2020 BY TWO RCI EXPERT COMMITTEE MEMBERS. MEMBERS VISITED DIFFERENT DEPARTMENTS/UNITS NAMELY OPD, WORKSHOP, LAB, LIBRARY, HOSTEL AND PLAYGROUND.





DEPARTMENT OF SOCIO-ECONOMIC REHABILITATION(SER)

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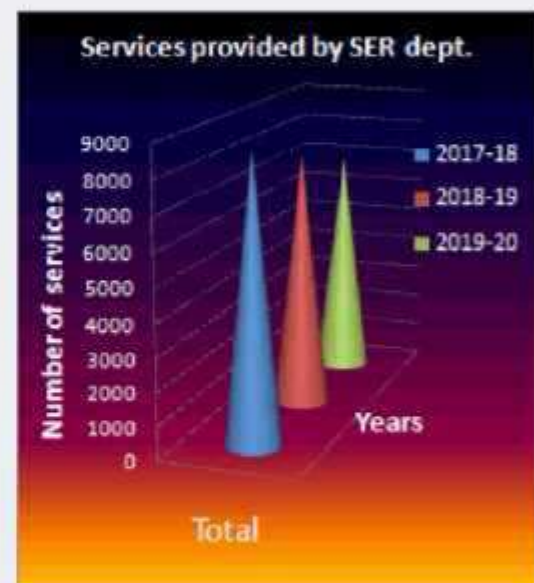
Integration of PwDs into the mainstream of society is a challenge and an important aspect in the process of total rehabilitation for the people with disability. The department with its manpower of Lecturer-SER, Social Worker, Vocational Counsellor, Clinical Psychologist, Special Educator and Extension Service Officer are providing teaching, training and rehabilitation services in institute and outreach.

The department has following unit :

- Social Work
- Vocational Counseling, Guidance & Placement
- Extension Service
- Clinical Psychology
- Special Education

The department is providing socio economic rehabilitation services through indoor, outdoor and outreach services and also activated community based rehabilitation services for the people with disability in different unreached areas of the country.

During the year department rendered its rehabilitation services to 6953 PwDs in respect of 7798 during the year 2018-19.



Type of services provided by the subunit during the last three years:

Services	2017-18	2018-19	2019-20
1. Social Assessment & Facilitation Service	4630	3599	4112
2. Vocational Counseling & Guidance	1429	1380	1002
3. Clinical Psychology	1703	1478	1327
4. Special Education	897	1373	484
5. Placement Service	17	18	28
Total	8676	7848	6953



Various services in the dept of SER



Assessments & Railway Concessions services in OPD



BSW & MSW Students in the department during their Field Work Placement



Psychological Assessment and Group Counselling of parents of children with special need



Academic Activities :

The department conducts a long term academic programs namely "Post Graduate Diploma in Disability Rehabilitation & Management (PGDDRM) of one year duration affiliated under West Bengal University of Health Sciences.

During the last academic sessions 11 students were admitted in PGDDRM course against the intake capacity of 15 students.

Details of admissions and passed out in PGDDRM course during last three years:

Name of Courses	Intake Capacity	Admission			Passed out		
		2017	2018	2019	2017	2018	2019
Post Graduate Diploma in Disability Rehabilitation Management (PGDDRM)	15	13	15	11	14	13	10

Other important Academic Activities :

- Academic activities were performed in the department under supervision of faculty/staff members.
- Students were posted to various institutions as a part of academic posting.
- Dissertation work was conducted and submitted to the West Bengal University of Health Sciences, Kolkata under the guidance of faculty members of department:

Other Activities of Students :

- Students of PGDDRM visited Rehabilitation Centre for Children (RCFC) on 19th September, 2019 as a part of their academic posting.



- Students of PGDDRM visited National Career Service Centre for Differently Abled, Kolkata (Erstwhile Vocational Rehabilitation Centres for Handicapped) on 22nd May, 2019.



Student's placement in the department during the year :

Course	No. of Students	Duration	Practical including Field Work Placement	University/Institution
PGDDRM (2018-19)	15	12-11-18 to 31-07-2019	OPD SER activities	NILD
Bachelor in Social Work (BSW-Semester II)	02	10-04-19 to 10-05-19	Block Placement	Vidyasagar School of Social Work, Vidyasagar University
Master of Social Work (MSW- Sem.-II)	02	10-04-19 to 10-05-19	Block Placement	Vidayasagar School of Social Work, Vidyasagar University
Master of Social Work (MSW Part-II)	01	15-10-19 to 18-12-19	Concurrent field work	Rabindra Bharati University
PGDDRM (2019-20)	11	20.01.2020 to 13.03.2020	OPD SER activities	NILD

Exposure visit from different academic institutes during the year.

Name of the Institution/ University	No. of Visitors/Students	Date	Purpose
Legal Aids Service, West Bengal (LASWEB)	Students (P.G.D.C.C)-30 Staff-01	09.04.2019	Orientation visit
Pingalaxhi Public Welfare Organization, Nimapara, Puri, Odisha	Students [B.Ed S.E (HI)] -24 Faculties-02	11.04.2019	Orientation visit
West Bengal State University	Students (P.G.C.H.D)-05 Faculty-01	20.05.2019	Orientation visit
Rabindra Bharati University	Students (MSW Part-II)-50 Faculties-01	06-08-2019	Orientation visit
Ramakrishna Mission Blind Boy's Academy, Narendrapur, Kolkata	B.Ed. Spl. Edu. (VI)-24 Faculty Members-02	22.08.2019	Orientation Visit
SCPwD Training Program at NIEPID, RC, Kolkata	Trainees- 23 Training Faculty-01	14.11.2019	Orientation Visit
Jagatbandhu Biswa Bharati Sikshya Niketan, Balangir, Odisha	Students [D Ed.Spl.Ed.(HI)]- 26 Faculties-04	03.03.2020	Orientation Visit
Scottish Church College, Kolkata	Students (B.Ed.)- 47 Faculty-01	11.03.2020	Orientation Visit



Used abbreviation :

PGDCC- Post Graduate Diploma Course in Counselling, P.G.C.H.D- Post Graduate Counselling in Human Development, D.Ed. S.E (HI):- D.Ed. Special Education (Hearing Impairment), B.Ed. S.E (HI):- B.Ed. Special Education (Hearing Impairment) B.Ed. S.E (VI):- B.Ed. Special Education (Visual Impairment) & MSW-Master of Social Work



P.G.D.C.C Students from Legal Aids Service West Bengal (LASWEB) Visited NILD, Kolkata

D.Ed.Spl.Ed.(HI) Students from Jagatbandhu, Biswa Bharati Sikshya Niketan, Odisha Visited NILD, Kolkata



Activities attended by faculties/staff of SER Dept :



Disability Awareness Quiz Competition on International Day of Persons with Disabilities, 2019



NILD, Kolkata Participated in the Rojgar Mela organised by Govt. of West Bengal, Department of Women Development & Social Welfare & Office of the Commissioner for PwDs, Kolkata at College Square



NILD, Kolkata participated in the Science & Cultural fair organized by Dewanpara Krira O Sanskritic Sangha at Belgharia, Kolkata



NILD & PwDs Visited to the Statue of Unity at Gujarat organized by DEPwD, MSJ&E



NILD, Kolkata Participated Exhibition-cum-Fair (Ekam Fest), 2020 organized by National Handicapped Finance and Development at New Delhi



Ms. Rini Bhattacharjee is under treatment at NILD, Kolkata was nominated for the National Award under the category of "Outstanding Creative Child with Disabilities" at Departments of Empowerment of PwDs (Divyangjan), Ministry of Social Justice & Empowerment, GOI candidates forwarded by NILD, Kolkata for the year 2019 and got of National Award on 3rd December, 2019.

Guided parents of Mr. Korok Biswas to achieved the Rashtriya Bal Shakti Puraskar (National Award) in the category of Art & Culture in 22nd January, 2020 at Rashtrapati Bhawan, New Delhi.

Brief Report on Training Programme/ Workshops/ Seminars:

- (1) **Seminar** : "Barrier Free environment & RPwD Act 2016"
Date : 3rd October, 2019
Venue : Zila Panchayat Bhawan , Ambedkar Nagar, UP





Oneday Seminar on "Barrier Free environment & RPwDs Act 2016" was organized by the National Institute for Locomotor Disabilities (Divyangjan), Kolkata in collaboration with Samdrishti Kshamta Vikas Evm Anusandhan Mandal Awadh Prant at Ambedkar Nagar, UP. 69 participants namely Members of DPO, Parents, gross root level workers & Anganwari Workers participated the program.

(2) **Seminar** : Program on Mental Health promotion and Suicide Prevention World Mental Health Day, 2019

Date : 10th October, 2019

Venue : Auditorium, NILD, Kolkata



One day orientation and awareness Program on Mental Health promotion and Suicide Prevention was organized by the SER dept of NILD, Kolkata on the occasion of World Mental Health Day with theme of Suicide Prevention on 10th October, 2019. The program was inaugurated by Director (Offg.) at NILD & DDA (O) and HoD of OT Department, NILD, Kolkata. 93 participants namely Members of Faculties, Officials, NILD Employees, Rehab professionals Students, Patients & Caregivers were participated the program.

Skill Development Training Programme :

National Institute for Locomotor Disabilities (Divyangjan), Kolkata initiated to conduct Skill Development Training Programme for Person with Disabilities (PwDs) under National Action Plan under SIPDA Scheme through Empanelled Training Partner (ETP) of DEPwD. All Skill Development courses were complied with National Skill Qualification Framework (NSQF). Training also followed by the common norms for skill development time to time. The NSQF is anchored at the National Skill Development Agency (NSDA) and is being implemented through the National Skills Qualifications Committee (NSQC) which comprises of all key stakeholders. The NSQC's functions amongst others include approving NOSs/QPs, approving accreditation norms, prescribing guidelines to address the needs of disadvantages sections, reviewing inter-agency disputes and alignment of NSQF with international qualification frameworks.

(1) **Skill Development Project for Persons with Disabilities (PwDs) under National Action Plan under SIPDA Scheme:-**

NILD, Kolkata conducted Skill Development Training Program for 1170 Persons with Disabilities (PwDs) under SIPDA Scheme through five empanelled training partners of DEPwDs in various trades as per the norms of Skill Council for PwDs.

Details of Training :

- Skill development training programme for PwDs conducted by NILD, Kolkata through Empanelled Training Partners (ETP) of DEPwD.



- Total no of trainees enrolled: 1170
- Total no of trainees completed training: ...1089
- Total no of selected ETP : 5
- Total no of trade/job roles offered : 15
- Total no of batch: 39
- Batch size: 30 Nos. each
- All skill training programme aligned with NSQF framework.
- All job roles have model curriculum approved by sector skill/ NSDC.
- All job roles have QP code & NSQF level.
- Total no of trainees under SC category :55
- Total no of trainees under ST category : 13
- Total no of trainees under OBC category : 149
- Total no of trainees under General category : 953
- Total no of Male trainees - 819
- Total no of Female trainees - 351
- Intervention states- **West Bengal, Assam, Bihar & Uttar Pradesh.**

Total no. of Training Partner: 5

Name of Empanelled Training Partners	Intervention areas		Total no of trainees
	State	Districts	
Kenduadihi Bikash Society	West Bengal	Bankura	180
Institute for the Handicapped and Backward People	West Bengal	South 24 PGS	60
		South 24 PGS	60
Kendriya Bhandar	Assam	Barpeta	30
		Nalbari	30
		Bongaigaon	30
	West Bengal	Bankura	30
		Murshidabad	30
		Maldah	30
		Howrah	150
SMD Technologies	West Bengal	Birbhum	60
		Maldah	60
	Bihar	Saharsha	330
	Uttar Pradesh	Gorakhpur	60
Badulara Deeshari Society	West Bengal	Bankura	30
Total			1170



Sl no	Name of ETP	Total no of Trainees Enrolled	Training Completed	Types of PwDs trainees		
				OH	HH	VH
1	Badulara Deshari Society	30	30	21	09	0
2	Institute for the Handicapped and Backward People	120	120	78	42	0
3	SMD Technologies	510	429	391	19	19
4	Kendriya Bhandar	330	330	282	39	9
5	Kenduadihi Bikash Society	180	180	121	59	0
Total		1170	1089	893	168	28

All assessment & certification was conducted by SCPwD, a nodal agency of DEPwD, the details given in below :

- Total no. of candidate appeared in assessment- 968
- Total no. of successful candidate- 848
- Total no. of unsuccessful candidate-120
- Total no. of duplicate candidate-81
- Total no. of absent candidate-51

Emolymment Status

- Total Employment - 155
- Self-Employment - 104
- Wage Employment -51

(2) Skill Development Project for Persons with Disabilities (PwDs) under National Action Plan under SIPDA :-

- The project for establishment and accelerate the place of setting up permanent skill development training Centre for PwDs at NILD, Kolkata for imparting placement oriented skill training for PwDs under process

Sl.No.	Name of ETP	Total Enrollment	Total Successful Candidate	Percentage of Passed Candidate
1	Badulara Deshari Society	30	27	90%
2	Institute for the Handicapped and Backward People	120	116	96.67%
3	Kenduadihi Bikash Society	180	150	83.33%
4	SMD Technologies	510	323	63.33%
5	Kendriya Bhandar	330	231	70%



- A meeting on skill development training with Empaneled training partner and NILD done on 25TH February 2020 at NILD conference room for new project.
- The project specific proposal for financial assistance for Skill Development Training Programme of Persons with Disabilities (Divyangjan) under National Action Plan under SIPDA scheme submitted and sent to the Ministry.
- The project for establishment and accelerate the place of setting up permanent skill development training Centre for PwDs at NILD, Kolkata for imparting placement oriented skill training for PwDs under process.

Skill Development Training Registration

Total -105

Male-71

Female-34





Community Based Rehabilitation Services for PwDs

Community Based Rehabilitation Project has been initiated by **National Institute for Locomotor Disabilities (N.I.L.D)**, Kolkata for providing rehabilitation services for the Persons with Disabilities in urban as well as rural even in remote areas emphasizing on reaching the unreached at their door step.

It is a strategy within community development for the rehabilitation, equalization of opportunities and social inclusion of all people with disabilities. The primary objective of CBR is the improvement of the quality of life of people with disability within the community.

Community Based Rehabilitation Project was undertaken by N.I.L.D at West Bengal (Rajarhat) direct intervention of N.I.L.D, Kolkata.

Project Site-Rajarhat West Bengal.

The Rajarhat Block under district of North 24 Parganas (WB) comprising of five Gram panchayats. Rajarhat is a community development block that forms an administrative division in Barasat Sadar subdivision of North 24 Parganas district.

Brief of Project Profile (Rajarhat)

- Target area- Rajarhat block
- The total area of the project - 72.90 square K.M.
- No. of G.P.s:- 5 Nos.
- Total no of identified PwDs - 1287
- Total Population : 189,893
- (Male: 97,623 & Female: 92,270)
- Total no. of families: 834

GP name	Villages	Certificate obtain	Certificate not obtain	Total	Total Number of Survey form	Status
Rajarhat Bishnupur-1	26	121	183	304	304	All forms are kept in CHR project office room at NILD
Chandpur	24	141	297	438	438	
Rajarhat Bishnupur-2	17	69	59	128	128	
Patharghata	21	82	94	176	176	
Jyangra hatiyara	35	87	154	241	241	
Total	114	391	611	1002	1287	



In order to provide rehabilitation services to PwDs through Community Based Rehabilitation Project, an extensive door to door field survey conducted to identify the Persons with Disabilities and their needs with accuracy. Total no of identified PwDs- 1287.

Community is to be involved in problem solving by understanding 'rehabilitation process' and to address the rehabilitation needs of persons with disabilities, **Sensitization & Awareness programme** were conducted across CBR projects to create man power at community level along with resource development. In this regard various workshop/ seminar/ training programme were being conducted at grassroots level. Total no of beneficiaries were 90.

● **Services provided to PwDs -**

Disability certificate issued	391
Enrollment for disability pension	49
Student enrollment in School	50
Scholarship benefits to students	04
Care giver benefits	100
UDID Card	70
Assistive devices	10

- Disabled People Organisation (DPOs) at various areas in CBR Project had formed to provide benefits to PwDs. Total no of group are 10.
- Meeting conducted with various stakeholders at the community level time to time for smooth functioning of project at both project areas. Total no of meeting - 30
- One of the important achievement of the project is to emphasize Person with Disabilities who had participated at International Day of Persons with Disabilities (PwDs) 2019:
- **Important days celebrated in CBR project sites:**

Celebration of International Day of Persons with Disabilities	Total no of beneficiaries were- 110
Celebration of Children's Day	



GLIMPSES OF CBR PROJECT





DEPARTMENT OF REHABILITATION NURSING



Service :

The department of Rehabilitation Nursing Service includes a comprehensive range of inpatient and outpatient services and continuing care for patients who experience debilitating illness or injury. Patients with complains of congenital deformities, fractures, amputations, SCI, multiple trauma or injuries and other musculoskeletal deformities are admitted for surgeries and post operative rehabilitation services.

The services were provided through following units.

- Rehabilitation Ward-29 beds
- Restorative Surgical Unit-21 Beds

The goal of the Rehabilitation Nursing Service unit is to assist individuals with a disability and or chronic illness to attain and maintain maximum function. The Rehabilitation staff nurses assist patients to adapt physically and emotionally to the lifestyle changes and provide care that helps to restore and maintain function and prevent complications. Also the nursing staff extends their services to Operation Theater in assisting all minor and major surgeries.

The department coordinates nursing care activities in collaboration with interdisciplinary rehabilitation team for the achievement of overall goals of rehabilitation.

In addition to documentation of indoor statistics and patient file the department maintains all records and reports of indoor patients.

First hand care on handling of persons with disabilities is given to St. John's ambulance association trainees in batch wise. Students from various institutes belonging from different disciplines such as Nursing, Physiotherapy and Special Education visits the department as a part of their curriculum

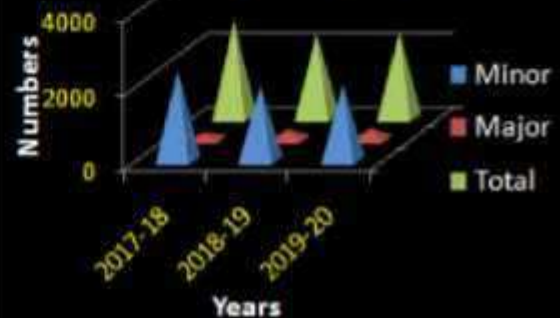
Details of Indoor Admission

WARD	Restorative Surgical Unit (RSU)	Rehabilitation Ward (RW)
	317	184

Reconstructive surgical cases:

Type of surgery	2017-18	2018-19	2019-20
Minor	2436	2006	2050
Major	194	270	289
Total	2630	2276	2339

Reconstructive surgical cases:





NURSING CARE 2019-20



Nursing care for post operative patient at ICU

Assistance in application of Plaster Cast at Minor OT





Academic Activities :

The department conducts a long term academic program of two years duration namely "M.Sc Nursing in Medical Surgical Nursing (Ortho and Rehabilitation)" and various short term training program in the form of educational visit, Clinical placement of PG & UG Nursing students, workshop, seminar, exhibition, health awareness program etc.

M Sc Nursing in Medical Surgical Nursing (Ortho and Rehabilitation) specialty started in the year 2011 with the intake capacity of ten (10) students after obtaining approval of West Bengal Nursing Council and Indian Nursing Council and affiliated to the West Bengal University of Health Science. Besides conducting long term programs the department conducts various programs, workshops, on-job training for nurses and organizes educational visits for diploma/ degree and PG nursing students from different nursing schools/colleges.

During the year 10 students admitted in the course and participated in various departmental and institutional activities. The students also attended state and national level conferences, seminars and workshops.

The faculty of the department attends various academic meetings organized by WBUHS, training for online counseling and process of admission / affiliation related data as per WBUHS and Indian Nursing Council, New Delhi. The faculty attends various workshop, seminars and conferences organized by various institutes locally and nationally. The faculty acts as internal and external examiner in university examinations and WB Nursing Council and other states

Details of admissions and passed out in M Sc. Nursing course during last three years:

Name of Courses	Intake Capacity	Admission			Passed out		
		2017	2018	2019	2017	2018	2019
M. Sc. Nursing (Ortho. & Rehabilitation)	10	10	10	10	09	08	03

Other important Academic Activities :

- Academic activities were performed in the department under supervision of faculty/staff members.
- Students were posted to various institutions as a part of academic posting.
- Dissertation work was conducted and submitted to the West Bengal University of Health Sciences, Kolkata under the guidance of faculty members of department :
 - a. A study to assess the effect of audio visual teaching programme on knowledge regarding care of plaster cast among mothers of Congenital Talipes Equino Varus (CTEV) Patients in selected hospital, Kolkata, West Bengal conducted by: Sreyashree Pramanik.



- b. A study to assess the knowledge, practice, burdens and support needs on care of paraplegic patient's among care givers in a selected hospital, Kolkata, West Bengal. Conducted by: Keren Pongener

A comparative study to assess the quality of life between diabetic and non-diabetic unilateral lower limb amputee patients in selected hospitals in Kolkata. Conducted by: Ms Satabdi Mukherjee



Due to COVID-19 Pandemic attack on 3rd week of March 2020, the students of M.Sc (N) part-I & part-II promptly to fight against corona pandemic to different COVID centre, quarantine & medical colleges to support state and central; government (as per order of DHS West Bengal) Classes from faculty & students (practice teaching) by online (audio assisted) & zoom-meeting (methods) to complete the recommended hours as per INC & WBUHS.

Research Publication:

- ❖ Following research articles were published or indexed in national/international journals by faculty/staff of Nursing Department:-
 - Ms. Peimi jojo, Mrs. Subhra Srimani, Mrs. Toma dey .A study on Prevalence of risk factors of knee osteoarthritis among urban women of Kolkata: IOSR Journal of Nursing and Health Science. 2019.
 - Sabita Basak, Subhra Srimani, Toma Dey. Knowledge and Skills of Auxiliary Nurse and Midwives (ANMS) on identification of Birth defects, developmental delays and disabilities among preschool children in West Bengal: Malaysian Journal of Medical Research, 2020.

Achievements by Students of MSc. (Nursing):

All passed out students achieved above 70% marks at Final University Examination 2019



Other Activities of Students:

1. Short term training program:

One day educational visit - The undergraduate and post graduate students from various Nursing institutions Viz. attends educational from CNMC School & College of Nursing), CNTI, NTS Uluberia SD Hospital, RG Kar School of Nursing, School of Nursing of Basirhat District Hospital, CON IDBG, M Sc Nursing students from other institute attend training for their research requirements.

Sl.no	Participants details	No. of participants	Purpose
1	GNM	439	One day Educational visit
2	Post Basic B. Sc Nursing	47	One day Educational visit
3	M. Sc Nursing	10	Clinical experience (one week)



Educational visit at indoor

Department is conducting a project

Project title :

To explore knowledge gap regarding Disability and Rehabilitation issues among nursing personnel working under NHM followed by need based STT / Continuing Education.

Action Taken: Formal Meeting was done with Chief Medical Officer of Health (CMOH), Dy. CMOH III and District Public Health Nurse (DPHNO) Hooghly. Administrative permission was taken. Area Map of Hooghly district and selected four Blocks was collected for data collection. Preliminary information received about district level disability activities. Meeting conducted with BMOH, Senior PHN and PHN of selected Block primary Health Centre (BPHC). Focus group discussion done to identify needs of PwDs at community levels as perceived by ANMs and ASHA workers of selected BPHC. 1st phase of the project activities has been finished.



Focus group discussion in four blocks

Sl no	Area	Group	Date and Time
1 st round.	Jangipara block	<ul style="list-style-type: none">• 1st anm• 2nd anm• ASHA	11/01/19 11 am onwards
2 nd round	Tarakeswar block	<ul style="list-style-type: none">• 1st anm• 2nd anm• ASHA	24/01/19 11 am onwards
3 rd round	Mogra block	<ul style="list-style-type: none">• 1st anm• 2nd anm• ASHA BPHN & PHN of all blocks	28/01/19 11 am onwards
4 th round	Bolagarh block	<ul style="list-style-type: none">• 1st anm• 2nd anm• ASHA	01/02/19 11 am onwards



Focus group discussion for qualitative data collection

Special programme organized

(A) International yoga Day 2019 celebration

5th International Yoga Day 2019 was celebrated on 21st of June at National Institute for Locomotor Disabilities (Divyangjan), Kolkata in presence of Members of Directors, Departmental Heads, staffs and students.

Speech delivered by eminent speakers from different Institution. Rajogini B.K. Pinki Bahen , Senior Rajyogi teacher from Prajapita Brahma Kumari Iswaria Viswabidhalya, Baranagar,Kolkata stated about **Rajyoga Meditation** in our life. Mrs. Pratima choudhuri, Prof of yoga, World Yoga Society, Salt Lake City, Kolkata make us practice of executive Yoga .



(B) Celebration of National Nutrition Month (RASHTRIYA POSHAN MAH)- September, 2019



RASHTRIYA POSHAN MAH

The department was entrusted with the responsibility to celebrate Rastriya Poshan Maah as per the direction of Ministry of Social Justice and Empowerment (DEPwDs). The department celebrated the same on 24th September 2019 to fortify the knowledge of common man on nutrition so that everyone can live a healthy life by taking healthy diet. Around 102 participants were present in the program. Various events were organized to celebrate the National Nutrition Month.

1. At the Institute demonstration was held on different nutritional foods and their values.
2. Role play at Ananda Ashram Sarada Vidyapith for girls by M.sc Nursing students.
3. Quiz competition was held for the students and prize were distributed.



DEPARTMENT OF REHABILITATION ENGINEERING

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The Department of Rehabilitation Engineering started functioning as a seat of multidisciplinary research and education in the year 2008. The need to integrate the efforts of engineers, scientists and rehabilitation professionals working with different aspects of a design/develop devices, systems to meet a wide range of needs that can assist individuals with mobility and other factors. These tools help people with day-to-day activities related to employment, independent living and education. The department focus in an area to improving the lives of individuals with disabilities by carrying out transformative research, developing innovative and effective rehabilitation and assistive technologies, translating our new knowledge and technologies to stakeholders and educating the next generation of rehabilitation engineering leaders. The department emphasizes providing a holistic approach in engineering principles to develop technological solutions and devices to assist individuals with disabilities and aid the recovery of physical and cognitive functions. The department has resources to address these scientific and engineering problems successfully.

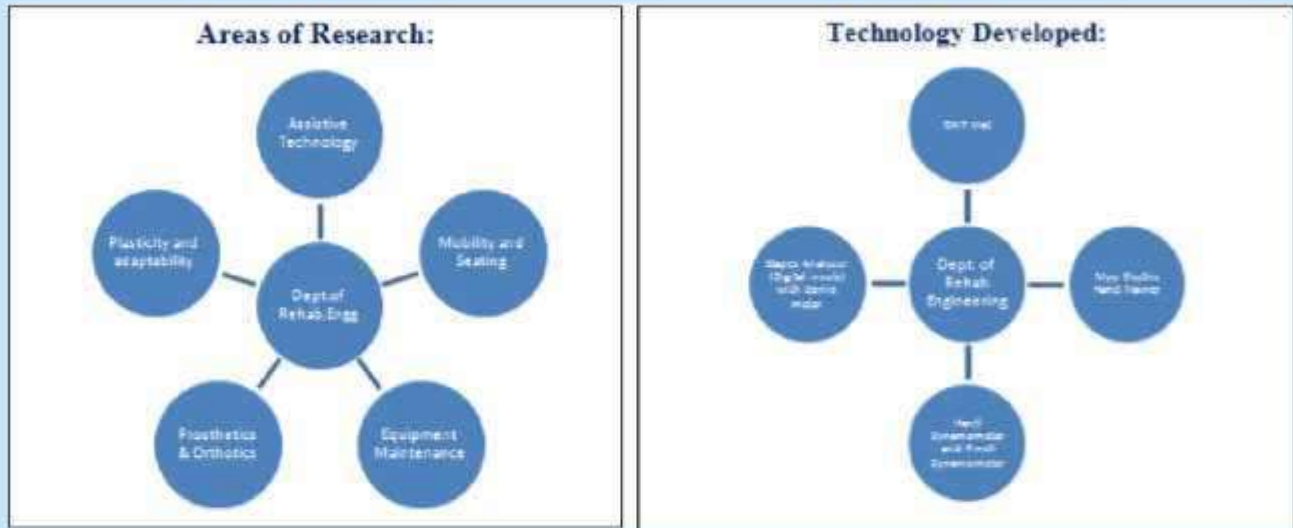
The research and education at Dept. of Rehab Engineering are closely associated with industry and several academic institutions of repute to foster cutting edge research and establish ourselves as a leader in this field. The academic/research facilities and collaboration with premier institutes like, Indian Space Research Organization (ISRO), Indian Institute of Technology (IIT) Kharagpur, Jadavpur University, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Indian Statistical Institute (ISI), Kolkata and University of Calcutta enhance the activities of the department.

laboratories under Department of Rehabilitation Engineering:





All these laboratories are equipped with advance biomechanics, mechatronics instruments, bio-engineering and advance computational facilities. The department of rehabilitation engineering coordinates and participates with other departments of the Institute to develop high level human resource training in the rehabilitation service. The laboratory facilitates with clinical data recording and research studies to the researchers, scholars and post graduate students.



Academic activity :

The department provides teaching service to various undergraduate and postgraduate academic activities of the institute and host practical examinations.

Research activity :

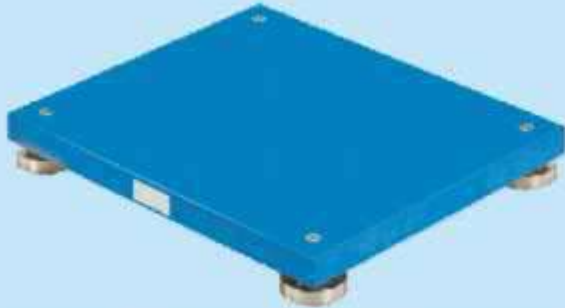
The department host JRF/SRF program of the institute and with Indian Space Research Organization (ISRO) a joint venture project is ongoing.

Clinical activity :

No of patients	Type of Equipment			
	K4B ²	CDG/Gait	Force Plate	EMG/EEG
	21	45	107	13



Divisional Facilities :



3D Force Plate portable (0 - 5kN) by Kistler Instruments (Pte) Ltd



K4b² Portable Metabolic System by COSMED-The Metabolic Company



EEG device with PowerLab data acquisition system by ADInstruments



Functional Electrical Stimulation (FES)

Visit of ISRO team :



ISRO team in Gait lab



Workshop/ Seminar/conference attended by faculties/staff/training of staff:



The Department of Rehab. Engineering actively participated in India International Science Festival (IISF)-2019 in Conclave on Assistive Technologies and Persons with Disabilities (Divyangjan), obtained first prize in poster competition in aforesaid subject by SRF Mr. S.K. Mondal.



Project Assistant -I Mr. Ananda Podder participated in National Conference Advancement in Materials Processing Technology (AMPT) at NIT, Jamshedpur



Dr. P.K. Lenka and Dr. H. Chakraborty participated in an invited lecture at North East Indian Journal of Orthopedics - North East Regional Orthopedic Surgeons' Association's Regional Conference on Research Methodology and Scientific Publication 2020



CHAPTER-II

HUMAN RESOURCE DEVELOPMENT

To meet the requirement of professional manpower required to provide rehabilitation services for the persons with disability & to attain the objective of manpower development, the Institute, immediate after its establishment and registration under Society Registration in 1982, started degree courses (B.Sc Honours) in Physiotherapy, Occupational Therapy of 3 yrs duration with intake capacity of 20 students and a diploma course namely Prosthetics and Orthotics, of two yrs duration with intake capacity of 10 student under affiliation of Jadavpur University.

These courses were upgraded to degree level as Bachelor in Physiotherapy (BPT), Bachelor in Occupational therapy (BOT) & Bachelor in Prosthetics and Orthotics (BPO) under affiliation of Calcutta University in the year 1990. Subsequently, with the establishment of Health University in the State and decision to put all health/paramedical courses under this, in 2004 the courses (BPT, BOT & BPO) being conducted by us were transferred from Calcutta University to the West Bengal University of Health & Sciences.

With the implementation of Persons with Disability Act, 1995, need of professional manager were felt more & new course based on contact teaching cum distance learning methodology 'Post Graduate Diploma in Disability Rehabilitation Management' of 1 year duration was developed and started in collaboration with Department of Family & Child Welfare, TISS, Mumbai in 1998. After two batches from TISS, the course was run in collaboration with Viswa Bharti, Shantiniketan, presently, the course is being run under affiliation with West Bengal University of Health Sciences, Kolkata.

For training to medical professionals, the Institute is accredited with the National Board of Examinations, Ministry of Health, GOI, New Delhi, to impart training for Diplomat National Board-PMR (DNB-PMR) student. There are two seats for DNB Common Entrance Test (CET) pass and an equal number for post diploma students in PMR.



For the academic up-gradation of under graduate professionals of Physiotherapy, Occupational Therapy & Prosthetics & Orthotics Institute started post graduate courses viz Master in Physiotherapy (MPT), Master in Occupational Therapy (MOT) & Master in Prosthetics & Orthotics (MPO) under affiliation of West Bengal University of Health Sciences in the year 2007.

To impart skills and attitude in providing competent orthopedic and nursing care to the persons with chronic disability like stroke, paraplegic, arthritis and elderly a new post graduate course of two year duration "MSc Nursing" was conceptualized and started in the year 2007 with due approval of Indian Nursing Council and West Bengal Nursing Council.

Several Long term and Short term courses are being run at NIOH, Kolkata, its regional centres, and with other Govt. Organizations like -CTTC, Kolkata etc, following the reservation guidelines for SC, ST, OBC and Physically Handicapped laid by the Government of India.

The basic objectives are-

- To bring the available human resource to the optimum standard of usefulness for the work entrusted to the Institute
- To fulfill the need of human resource to work for Persons with Locomotor Disabilities in the country
- To update the knowledge of existing human resource

HRD program in the Institute can be divided into two categories :





A. LONG TERM TRAINING PROGRAM

(i) Post Graduate Courses :

Sl No.	Name of the Course	Duration	Affiliating Body	Department of the Institute	Intake	No. of Admissions	Gender M/F	Cast SC/ST/OBC/PH
1.	Diplomat National Board (PMR) Post MBBS	3 Yrs.	NBE+	Medical Rehabilitation	4	4	2/2	0/1/1/0
2.	Diplomat National Board (PMR) Post MBBS Post Diploma	2 Yrs.	NBE+	Medical Rehabilitation	4	0	-	-
3.	Master in Physiotherapy	2 Yrs	WBUHS*	Physiotherapy	6	6	3/3	1/1/2/0
4.	Master in Occupational Therapy	2 Yrs	WBUHS*	Occupational Therapy	6	6	1/5	1/0/1/0
5.	Master in Prosthetics & Orthotics	2 Yrs	WBUHS*	Prosthetics & Orthotics	6	5	4/1	0/0/1/0
6.	M.Sc. in Nursing (Orthopedic & Rehabilitation Nursing)	2 Yrs	WBUHS* & INC-WBNC@	Rehabilitation Nursing	10	10	0/10	
7.	Post Graduate Diploma in Disability Rehabilitation Management	1 Yr	WBUHS*	Socio Economic Rehabilitation	15	11		



(ii) Under Graduate Courses:

Sl. No.	Name of the Course	Duration	Affiliating Body	Department of the Institute	Intake	No. of Admissions	Gender M/F	Cast SC/ST/OBC/PH
1.	Bachelor in Physiotherapy	4 ½ Yrs.	WBUHS*	Physiotherapy	52	52	28/24	8/4/14/0
2.	Bachelor in Occupational Therapy	4 ½ Yrs.	WBUHS*	Occupational Therapy	51	51	18/33	8/4/14/0
3.	Bachelor in Prosthetics & Orthotics	4 ½ Yrs.	WBUHS* & RCI	Prosthetics & Orthotics	34	34	20/14	5/3/9/0

+National Board of Examinations, Ministry of Health, GOI.

*West Bengal University of Health Sciences, Kolkata

#Rehabilitation Council of India

@Indian Nursing Council & West Bengal Nursing Council

STUDENT'S PLACEMENT CELL :

Students Placement Cell was established in 2010 at NILD with a view to facilitate placement of students for their better professional career and better guidance for their proper placement which may attract the interest of young generation to study in different courses run by the institute. Job opportunity may be generated through interface development of employers and enrolled/registered candidates. The placement cell was scheduled, inter - alia, to collect and coordinate required information relating to details of students; to keep contact with alumni etc which may help as ready reckoner as right choice for right candidate. A good number of activities have been implemented throughout the year. Database for the students, profile of students employed, publication of information brochure, maintenance of employers profile etc were major initiatives of the cell.

Year		OT		PT		P&O	
		U.G	P.G	U.G	P.G	U.G	P.G
2019-20	No. of Students	29	05	37	03	26	05
	Govt. Jobs	--	01	--	01	--	--
	Non - Govt. Jobs	10	03	08	02	16	05
	Admitted for Higher studies/Project	15	--	18	--	04	--
	Self - Employed	03	01	04	--	--	--



Students' Campus Placement Details

Course	Name of the organization	No. of students appeared	No. of students selected	Location
BPT	Inspiring hearing & therapies	25	04	Pune, Jamshedpur, Kerala.
BPT	Anshu hospital	01	01	Odisha
BPT	Paras hospital	07	05	Patna, Darbhanga
BPT	Parijma neuro-diagnostic & rehabilitation	00	00	Hyderabad
BPT	Prism center for child development	00	00	Bangalore
MPT	Paras hospital	01	01	Patna
BOT	Inspiring hearing & therapies	27	09	Pune, Jamshedpur, Kerala.
BOT	Care for autism	05	01	Kolkata
BOT	Tra general hospital & rehabilitation center	01	01	Kolkata
BOT	Bengal therapeutic intervention	00	00	Kolkata
BOT	Sakra world hospital	01	00	Bangalore
BOT	Prism center for child development	00	00	Bangalore
BOT	Parijma neuro-diagnostic & rehabilitation	00	00	Hyderabad
MOT	Inspiring hearing & therapies	00	00	Pune
BPO	Kare prosthetics & orthotics	19	03	Bangalore
BPO	Endolite india ltd	23	16	PAN India
BPO	Dr. Boyner's clinic	00	00	New Delhi
BPO	Evolution healthcare pvt ltd	01	01	
BPO	Team prosthetics pvt ltd	06	02	Kolkata
BPO	Inspire orthopaedics pvt ltd	00	00	Surat



Glimpses of placement program:



(INSPIRING HEARING & THERAPIES)



(CARE FOR AUTISM)



(Endolite india ltd)



(Team prosthetics pvt ltd)



(Inspiring hearing & therapies)

B. SHORT TERM PROGRAMS:

Training constitutes one of the major activities of the Institute. Being an apex organization for training of manpower in the area of locomotor disability, the Institute is responsible for planning, organizing, coordinating and monitoring training on short term basis; building capabilities of various organizations engaged in training and services.

During the period 2019-2020, total 13 different programs were organized benefitting 966 participants.