

# National Institute of Rehabilitation Training and Research



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**Swami Vivekanand National Institute of Rehabilitation Training and Research**(S.V. NIRTAR) is an autonomous institute functioning under the [Ministry of Social Justice and Empowerment](#) of [India](#). It is the most prestigious institution in the field of rehabilitation. It is in Olatpur, 30 km from [Cuttack](#).

Swami Vivekanand National Institute of Rehabilitation Training and Research



<b>Type</b>	<a href="#">Research</a> , <a href="#">Autonomous Institution</a> , <a href="#">Govt. of India</a>
<b>Established</b>	1975
<b>Affiliation</b>	<a href="#">Utkal University</a> .
<b>Director</b>	Dr.S.P. DAS
<b>Students</b>	930
<b>Undergraduates</b>	850
<b>Postgraduates</b>	80
<b>Location</b>	Olatpur, <a href="#">Cuttack</a> , <a href="#">Odisha</a> , <a href="#">India</a>
<b>Campus</b>	<a href="#">Rural</a> , Olatpur, 30 km from <a href="#">Cuttack</a> .
<b>Website</b>	<a href="http://svnirtar.nic.in">svnirtar.nic.in</a>

## History

The institute was conceived to provide manpower to the [Artificial Limbs Manufacturing Corporation of India](#) and created in the name of Directorate of Artificial Limbs Fitting Centre (DALFC) in March 1974 and started functioning at [Safdarjung Hospital](#),



[New Delhi](#). When the Institute was shifted to a rented place in Safdarjung Enclave, its name was changed to Central Institute of Prosthetic and Orthotic Training (CIPOT).

Following the offer of available land at Olatpur by former [Odisha](#) Chief Minister [Nandini Satpathy](#) during former Indian prime minister [Indira Gandhi](#)'s visit to [Odisha](#), Indira suggested [Balu Sankaran](#), Professor Emeritus at St Stephens Hospital and family surgeon to Indira Gandhi to study the feasibility of starting the Institute in Olatpur. The Institute was shifted from New Delhi to Olatpur in November 1975 and started functioning from 3 December 1975 following the recommendations of Balu Sankaran. Subsequently, the name of the Institute was changed from CIPOT to National Institute of Prosthetic and Orthotic Training (NIPOT) in 1976.

## Courses and services



The institute offers Bachelor's degrees in Physiotherapy (B.P.T.), Bachelor in Occupational therapy (B.O.T.), Bachelor's degree in Prosthetics and Orthotics (B.P.O.) of 4½ years including 6 months compulsory Internship as per rule of the University/ Rehabilitation Council of India in accredited hospitals, rehabilitation organizations in rural area/district rehabilitation centre, 2 - year Master's degree in Occupational therapy (Neurology, Hand Therapy, Developmental Disabilities & Rehabilitation), Physiotherapy (Neurology, Paediatric, Musculoskeletal Conditions & Rehabilitation), and Master in Prosthetics and Orthotics (MPO) as well as Diplome in National Board of Examination (DNB). It also conducts short orientation courses, Continuing Medical Education courses for rehabilitation professionals, awareness programmes for the functionaries of government and non-government persons with disabilities and their relatives, etc.

## Rehabilitation services



Patients with locomotor/orthopaedic, neurologic, or developmental disabilities due to ailments like poliomyelitis, cerebral palsy, congenital deformities, leprosy, burn contracture, paraplegia, hemiplegia, etc., and hearing and speech disabilities are treated and rehabilitated. People with disabilities requiring artificial limbs and other rehabilitation aids and appliances are provided to prevent the impairment leading to disability and to make them near normal and to carry on their activities for daily living.

The rehabilitation is provided through the following infrastructure:

- 100 bedded hospital.
- [Prosthetic and Orthotic](#) Dept.
- [Physiotherapy](#) Dept.
- [Occupational therapy](#) Dept.
- Physical Medicine and Rehabilitation.
- Two well equipped operation theatres for performing corrective and reconstructive surgeries.
- Microsurgery.
- Assessment Clinic consisting of [Rehabilitation](#) Specialists & professionals to evaluate the patients.
- Radiological and Pathological investigation Units.
- [Cerebral Palsy](#) Clinic.
- Hand Clinic.
- [Speech Therapy](#).
- [Psychological counselling](#).
- [Vocational counselling](#), Training and Guidance.
- Workshop for hand [splints](#).
- [Hydrotherapy](#).
- Modern and Sophisticated Rehabilitation equipments.

- Rehabilitation Park.
- Early Intervention Clinic

## Prosthetics and orthotics



Head of the Department: Dr. Srikant Moharana

**Prosthetics** and **orthotics** science is now one of the world's fastest-growing area of research and development.

Prosthetics is the study of prescribing, designing and fitting artificial replacements (may be any part of a normal human body) by biologically feasible materials, they may be internal (e.g., artificial body implants, internal knee joints used in knee joint replacement surgery, etc.) or external (artificial limbs, aesthetic fingers, etc.). One who is expert in this science is called as a prosthetist and mainly deals with the external replacements. A prosthetist deals with mainly amputees (unilateral, bilateral, trilateral, quadrilateral, etc.), or congenital malfunctioning of limbs or even replacing the missing limbs, etc.

Similarly, orthotics is the study of prescribing, designing and fitting supportive devices to any part of human body with any neuromusculoskeletal disorders and one who is expert in this science is called as an orthotist. Sometime splints are referred as orthosis (the device); they are otherwise used for a short period. Some of the pathologies where orthotists play an important role are all type of paralysis patient (hemiplegics, paraplegics, tetraplegics, quadriplegics, etc.), polio myelitis, muscular dystrophy, CTEV, Cerebral Palsy, Burn injury, fractures (mainly fractures of cervical vertebrae), diabetic foot, leprosy, Perthe's disease, PID, LBP, vertebral deformities (scoliosis, kyphosis, lordosis, spondylolisthesis, etc.), plagiocephalics, any LMN disorders, etc.

Apart from prosthesis and orthosis, a prosthetist and orthotist is the only licensed professional in India to prescribe mobility aids and appliances, i.e., crutch, wheelchair, walker, etc. Their workshops, one is called as the old laboratory which is near about 38 years old meant for production and the latest is a new laboratory meant only for academics and research which is equipped with latest pneumatic technology, with workshop layout by Ottobock healthcare, Germany.

The following aids and appliances are fabricated by department of prosthetics and orthotics at S.V .NIRTAR:

- Endoskeletal Prosthesis: S.V. NIRTAR is the only premiere institute in India to have workshop facility and availability of components for endoskeletal Below Knee and Above Knee prosthesis with soft cosmetic cover.
- Immediate Post Operative Prosthesis (removable and readjustable system)
- Plastic FO, AFO, KAFO
- Metallic AFO, KAFO and HKAFO
- Co-polymer Polypropylene spinal braces
- Aluminum alloy spinal braces
- Wrist driven, Shoulder driven hand and upper arm splints
- Fracture bracing

Expert faculties include: Dr. A. N. Nanda, Jr. Lecturer (Prosthetics), Dr. N. Ojha, Demonstrator (Orthotics), Dr. S. Moharana, Lecturer (Biomechanics), Er. R.C. Acharya (Engineering Drawing), Mr. R. R. Swain, Lecturer (Computer science) & Er. R. Das, Lecturer (Applied Mechanics).

Generally a student after passing out the bachelor's degree, gets campus selection before completion of internship, till date every students passing out from this branch have been appointed in MNCS, Hospitals, NGOs & private clinics. This is the only course that is recognized by the Rehabilitation Council of India (RCI).

## Occupational therapy



Head of the Department: Dr. (Mrs) Anurupa Senapati (Asst. Professor, Occupational Therapy)

Occupational Therapy (OT) is being practiced in India for several decades. OT is one of the important health disciplines.

Occupational Therapists provide services to the individuals whose functional abilities are affected due to physical or mental illness, ageing process, developmental problems, emotional problems. Occupational Therapists use purposeful, goal-oriented activities to achieve its goals that is to help the individual to be functionally independent having satisfactory life. The Department of Occupational Therapy is well equipped to provide services to disabled clients at S.V.NIRTAR.

The following services are available at the Department of [Occupational Therapy](#):

- Evaluation and Management of Functional Deficits
- General Occupational Therapy
- Developmental Therapy
- [Behavioral therapy](#)
- Hand therapy
- ADL Training
- Advice on [Barrier-free Environment](#)
- [Sensory integration therapy](#)
- Aquatic Occupational Therapy
- Small hand Splints (temporary)
- Transfer Training and Mat Activities

## Physiotherapy



Head of the Department: Dr. PatitaPaban Mohanty (Associate Prof. Physiotherapy)

Physiotherapy (PT) is the branch of modern treatment that deals with the diseases and disorders by physical/natural means. It is not merely application of physical modalities, but it includes evaluation, assessment, treatment planning and treatment application, re-assessment, modification of treatment programmes and advice to the client.

The department of P.T. caters services to both out and in patients. Patients are allotted to therapists who evaluate, assess and plan out the treatment and execute the therapy. Difficult and problematic cases are discussed in the departmental meetings and therapeutic measures appropriate for them are given. Suitable "Home exercise programmes" are advised to patients.

The following services are available at Dept. of Physiotherapy.

- Electrotherapy – Electrical stimulation, Interferential therapy, TENS , TECAR THERAPY, DEEP OSCILLATION THERAPY etc.
- Actinotherapy – Ultraviolet, Infrared Radiation, LASER etc.
- Heat therapy – Paraffin wax bath, moist heat, Ultrasound, Short Wave Diathermy, Microwave Diathermy etc.
- Exercise therapy
- Manual therapy including traction and soft tissue Mobilization, manipulation
- Hydrotherapy Units and Cryotherapy
- Misc- CDG-Gait analyser, KIN KOM-Isokinetic unit, Pulsed Electromagnetic energy, Biofeedback, Virtual Reality Rehabilitation, Balance Rehab etc.

The Units of Physiotherapy Dept. are follows:-

- Neurorehabilitation
- musculoskeletal-1
- musculoskeletal-2
- musculoskeletal-3

- paediatrics-1
- paediatrics-2
- stroke Rehabilitation unit

The Physiotherapy department has won many national as well as state level awards for its service. ACADAEMICS- course available - BPT (Bachelor of Physiotherapy, 4year and 6month Duration) MPT (Master of Physiotherapy,2 years Duration )

Faculty members:- 1.Dr.Patita Paban Mohanty, MPT(Rehab), Asso.prof and HOD. 2.Dr.Monalisha Pattnaik, MPT(Cardio pulmonary), Asst.prof.Physiotherapy 3.Dr.Basanta kaumar Nanda, MPT(Rehab)Asst.Prof.Physiotherapy 4.Dr.Chitta Ranjan Mishra, MPT(Rehab), Lecturer, physiotherapy 5.Dr.Pramod Tigga MPT(Rehab), Lecturer, physiotherapy 6.Dr.Sujata Moharathi, MPT(Sports), Demonstrator, Physiotherapy 7.Dr.Binay Kumar, MPT(Rehab), Demonstrator, Physiotherapy 8.Dr.Mamata Manjari Sahu, MPT(rehab), Demonstrator, Physiotherapy 9.Dr biswajit satpathy

## References



 Last edited on 10 January 2020, at 17:05

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