



# INSTITUTE OF HEALTH SCIENCES

(A Unit of Margdarsi)

Office : N-2/41, I.R.C. Village, Nayapalli, Bhubaneswar, Odisha - 751015, Ph. : 0674-2553640, 2550054  
Campus : Chandaka, Bhubaneswar, Khordha, Odisha - 754005, E-mail : ihsbbsr@margdarsi.org, Web : www.ihsindia.org

## 4.2.3 Detailed report of laboratories utilities for the benefit of students as learning resources

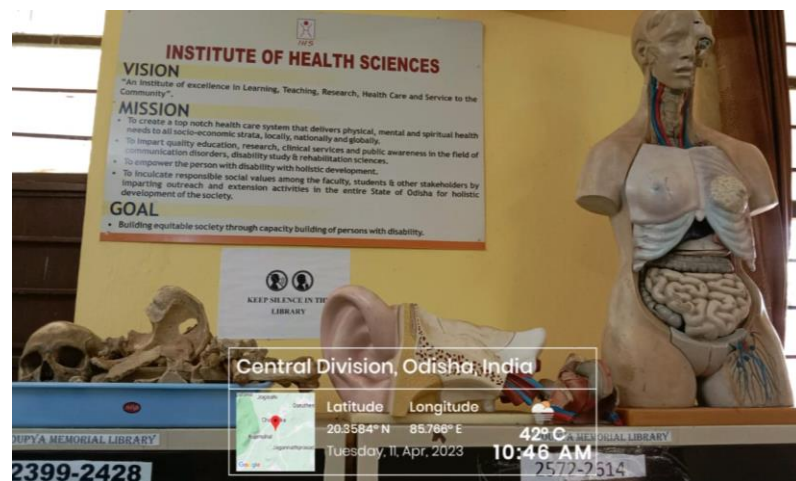
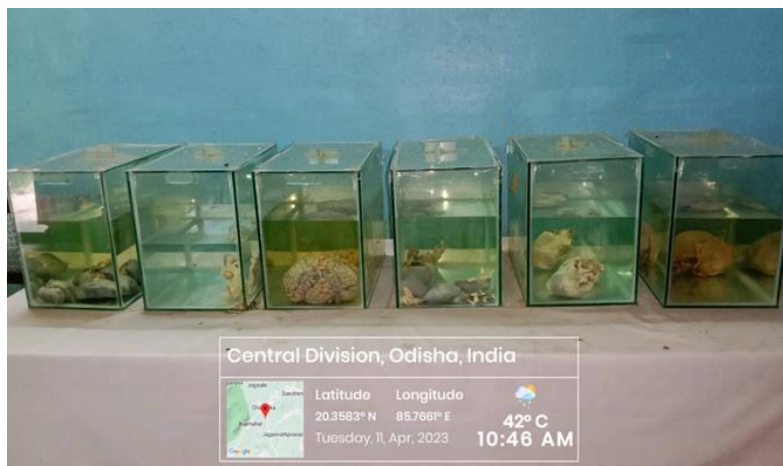
### ANATOMY LAB

#### Objectives:

1. Identification and description of all anatomical structures
2. The learning of anatomy is by demonstration only through dissected parts, slides, models, charts, etc.
3. Demonstration of dissected parts (upper extremity, lower extremity, thoracic & abdominal viscera, face, and brain).
4. Demonstration of the skeleton- articulated and disarticulated.
5. During the training more emphasis is given to the study of bones, muscles, joints, nerve supply of the limbs, and arteries of limbs.
6. Surface anatomy: surface landmark- bony, muscular and ligamentous. Surface anatomy of major nerves, arteries of the limbs
7. Points of palpation of nerves and arteries.

#### Outcomes:

The students are enabled to learn in detail about the body parts and their anatomy, thereby enabling them to diagnose the affected part with proficiency.





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## **PHYSIOLOGY LAB**

### **Objectives:**

1. Examination of pulse, B.P., and Respiratory rate.
2. Reflexes
3. Spirometry to measure various lung capacities & volumes, Respiratory rate, Tidal volume, IRV, IC, ERV, EC, and residual volume on Spirometry.
4. Estimation of Haemoglobin, R.B.C., W.B.C., TLC, DLC, ESR count.
5. Blood indices, Blood grouping, Bleeding & Clotting time.

### **Outcomes:**

The students lead with better clarity of all the physiological processes and the abnormalities associated with it leading to a disorder/disease and the parameter associated with it.





## **PHYSIOTHERAPEUTIC LAB:**

### **Objectives:**

This lab focuses on imparting students with in-depth knowledge of various electro-modalities and exercises and their equipment. Here we cater to various approaches and assessments of various disorders. Further here they are taught focused on these points:

### **Exercise therapy:**

1. Goniometry – measurement of joint ROM.
2. Identify muscle work of various movements in the body at different angles. Identify normal and abnormal posture.
3. Normal gait with its parameters and abnormal gait with the problems in it and its training and aids used.
4. Starting positions and derived positions.
5. Range of motion (PROM, AROM, AAROM) exercises to all joints.
6. Suspension exercise to all major joints.
7. Massage – upper limb, lower limb, back, and face.
8. Manual muscle testing of individual muscles.
9. Coordination exercises, and balancing exercises.
10. Joint Mobilization to the individual joint.
11. Stretching of individual and group muscles.
12. PNF patterns to the upper and lower limb.
13. Various types of breathing exercises, chest mobilization exercises postural drainage.

### **Electrotherapy:**

1. Identify basic electrical components in electrotherapeutic equipment.
2. Reading medical records, and identifying indications and contraindications for electrotherapy. Stimulation of motor points, stimulation of individual muscle and group muscle.
3. Application of Ultrasound for different regions-various methods of application.
4. Demonstrate treatment techniques using SWD, IRR, and Microwave diathermy.
5. Demonstrate the technique of UVR exposure for various conditions – calculation of test dose.
6. Calculation of dosage and technique of application of LASER.
7. Technique of treatment and application of hydrocollator packs, cryotherapy, contrast bath, and wax therapy.





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## Outcomes:

The students get well versed with the instrument, various techniques, and approaches and further can diagnose a patient with proper assessment and appropriate diagnosis.





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## **SPEECH LAB:**

### **Objectives:**

Speech and Language Assessment and Intervention on Persons with Communication Disorders and how to do diagnosis and treatment for different disorders in clinical practice.

1. Introduction to the diagnostic process.
2. Terminologies in the diagnostic process.
3. General principles for Speech and Language Diagnosis and Therapy.
4. Approaches to Speech and Language Diagnosis and Therapy.
5. Techniques for Speech and Language therapy.

### **6. Equipment and Devices**

- a. Dr Speech
- b. Speech trainer
- c. Endoscope
- d. Spirometer
- e. Praat
- f. Tape recorders
- g. Headphone with microphone with good noise cancellation

### **Outcomes:**

The outcome is to provide a platform for the students to demonstrate a thorough clinical understanding of the diagnostic and rehabilitative protocols in detail.





## **AUDIOLOGY LAB**

In the Department of audiology, students are trained to administer proper assessments and interventions to their respective clients. Each year as a part of the clinical training students:

- Perform a normative assessment of their classmates
- Perform assessments on clients under clinical supervision
- Learn various intervention protocols in a clinical setting and apply them to clients in a clinically supervised setting

Tests that the students learn and administer in a clinical setting range from being as basic as:

- A tuning fork test
- A pure tone audiometry
- Behavioral Observational Audiometry, etc.

Too complex and complicated tests such as

- Oto Acoustic Emissions
- Brainstem Evoked Response Audiometry
- Acoustic Reflex Decay tests, etc.

During the clinical run students also learn to differentially diagnose similar-looking conditions, also they understand which tests are to be administered on a child vs on an adult depending on the condition they have.

In the intervention part, the students are trained in various parameters

- A Hearing aid Selection
- Hearing aid Trial
- Auditory Verbal Therapy
- Programming a hearing aid
- Alternatives to a hearing aid, etc.

This intense clinical exposure aims to mould an individual into a competent clinician who can confidently cater to the needs of the clients they are working to rehabilitate.

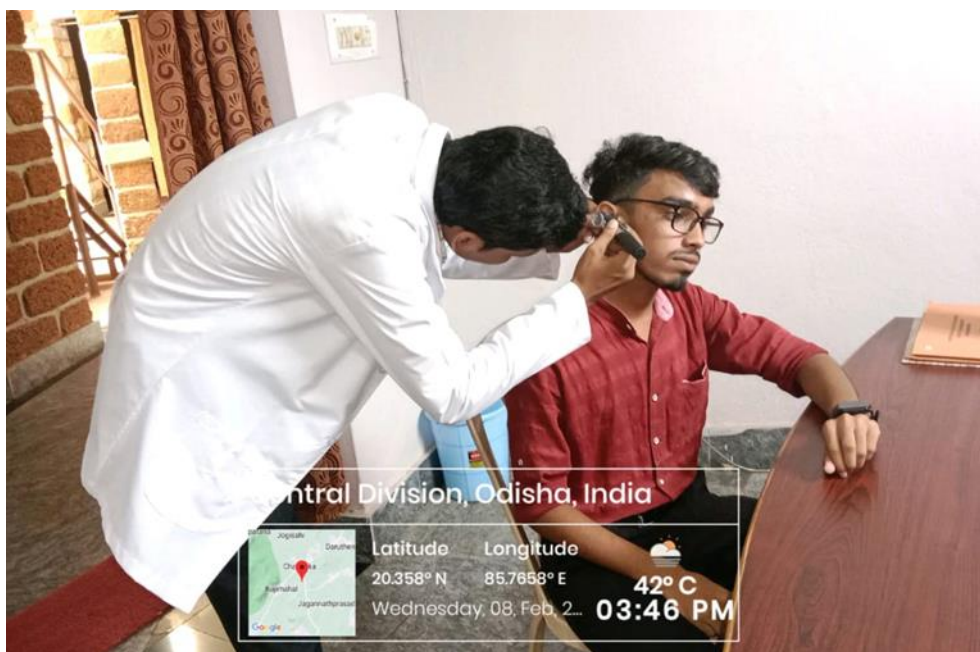




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Pioneer Institution imparting Bachelor & Master's Degree in Audiology and Speech Language Pathology and Physiotherapy  
Modern Diagnostic & Complete Treatment center for Hearing Impairment, Multi Modal Therapy for CP, MR,  
Autism, Learning Disability, Therapy for speech Defects, Musculo, Skeletal Disorders and Neurological Problems.




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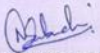
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
## Timetable for BASLP Clinics


 **INSTITUTE OF HEALTH SCIENCES** w.e.f- 13.03.2023  
BASLP- 2<sup>nd</sup> SEM (Batch 2022-23)  
TIME TABLE

Day	10am-11:15 am	11:15 am-12:30 pm	12:30 pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm
Monday	AUD	SLP	L	AUDIO PRACT.	OTOLARYNG	OTOLARYNG
Tuesday	AUD	SLP	U	SPEECH PRACT	NEUROLOGY	NEUROLOGY
Wednesday	AUD	SLP	N	AUDIO PRACT.	OTOLARYNG	OTOLARYNG
Thursday	AUD	SLP	C	SPEECH PRACT	NEUROLOGY	NEUROLOGY
Friday	AUD	SLP	H	AUDIO PRACT.	OTOLARYNG	OTOLARYNG
Saturday	AUD	SLP		SPEECH PRACT	NEUROLOGY	NEUROLOGY

B.2.1: NEUROLOGY: DR. SMRUTI RANJAN NAYAK  
B.2.2: OTOLARYNGOLOGY: DR. KAUSHIK SARANGI  
B.2.3: SPEECH-LANGUAGE PATHOLOGY: MR. VIVEK KUMAR AND MS. NIKITA SUBUDHI  
B.2.4: AUDIOLOGY: MRS. SUBHASMITA SAHOO AND MR. RAJ SHEKHAR  
B.2.5: PRACTICALS (SPEECH- LANGUAGE PATHOLOGY): MR. VIVEK KUMAR AND MS. NIKITA SUBUDHI  
B.2.6: PRACTICALS (AUDIOLOGY): MRS. SUBHASMITA SAHOO AND MR. RAJ SHEKHAR

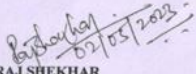
  
MS. NIKITA SUBUDHI  
Class Teacher


  
PRINCIPAL  
Principal  
Institute of Health Sciences  
Bhubaneswar

 **INSTITUTE OF HEALTH SCIENCES** w.e.f- 10.4.2023  
BASLP- 4<sup>th</sup> SEM (Batch 2021-22)  
TIME TABLE

Day	10-11am	11am-12pm	12-1pm	1-1:30pm	1:30-2:30pm	2:30-3:30pm	3:30-4:00pm
Monday	DA	Clinical Practicum	LDC	L	IHD	MSD	LIBRARY
Tuesday	DA	Clinical Practicum	LDC	U	IHD	MSD	LIBRARY
Wednesday	DA	Clinical Practicum	LDC	N	IHD	MSD	LIBRARY
Thursday	DA	Clinical Practicum	LDC	C	IHD	MSD	LIBRARY
Friday	DA	Clinical Practicum	LDC	H	IHD	MSD	LIBRARY
Saturday	DA	Clinical Practicum	LDC		IHD	MSD	LIBRARY

B.4.1: MOTOR SPEECH DISORDERS IN CHILDREN: MS. NIKITA SUBUDHI  
B.4.2: CHILD LANGUAGE DISORDERS: MR. VIVEK KUMAR  
B.4.3: DIAGNOSTIC AUDIOLOGY- PHYSIOLOGICAL TESTS: MS. SUBHASMITA SAHOO  
B.4.4: IMPLANTABLE HEARING DEVICES: MR. RAJ SHEKHAR  
B.4.5: CLINICALS IN SPEECH LANGUAGE PATHOLOGY: MS. NIKITA SUBUDHI / MR. VIVEK KUMAR  
B.4.6: CLINICALS IN AUDIOLOGY: MS. SUBHASMITA SAHOO / MR. RAJ SHEKHAR

  
MR. RAJ SHEKHAR  
Class Teacher

  
PRINCIPAL  
Principal  
Institute of Health Sciences  
Bhubaneswar





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## Timetable for BPT Clinics

**INSTITUTE OF HEALTH SCIENCES**  
BPT 6<sup>TH</sup> SEMESTER (Batch: 2020-21)  
TIME TABLE

w.e.f- 27.05.2023

DAYS	10.00 AM	11.00 AM	12.00 PM	12:30	1.00PM	2.00 PM	3.00 PM
	11.00 AM	12.00 PM	12.30 PM	1:00pm	2.00PM	3.00 PM	4.00 PM
MONDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	Orthopedic	Neurology 2
TUESDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	MMM	Psychiatry
WEDNESDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	Neurology 2	Neurology 2
THURSDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	Orthopedic	LIB
FRIDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	Neurology 2	Sports
SATURDAY	Psychiatry (SD)	Clinic	Lunch	Clinic	Psychiatry (PM)	Psychiatry	Psychiatry

Orthopaedics- Prof. S S Rau (Ortho 1), Dr. Susith Kant Raul (External)  
Neurology: Dr. Smruti Ranjan Nayak (External), Dr. Subhasmita Dwivedi (Neuro 1)  
Psychiatry: Mr. Bishnu Prasad Sahoo/ Ms. Priyanka Mishra/ Dr. Subhasmita Dwivedi

*S. Sahoo*  
PRINCIPAL  
Principal  
Institute of Health Sciences  
Bhubaneswar

*Dr. Subhasmita Dwivedi*  
Head of the Department  
(Dept of Physiotherapy)  
Institute of Health Sciences  
RHUBANESWAR-15

*Dr. Subhasmita Dwivedi*  
Class Teacher

**INSTITUTE OF HEALTH SCIENCES**  
BPT 8<sup>TH</sup> SEMESTER (Batch: 2019-20)  
TIME TABLE

w.e.f- 27.05.2023

Day	9am-10am	10am-11am	11am-12:30pm	12:30pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm	4pm-5pm
Monday	Clinic	Clinic	Clinic	Lunch	Clinic	PT Ortho	PT Neuro	PT Neuro
Tuesday	Clinic	Clinic	Clinic	Lunch	Clinic	PT Ortho	PT Neuro	PT Neuro
Wednesday	Clinic	Clinic	Clinic	Lunch	Clinic	PT Ortho	Project	Library
Thursday	Clinic	Clinic	Clinic	Lunch	Clinic	PT Ortho	PT Neuro	PT Neuro
Friday	Clinic	Clinic	Clinic	Lunch	Clinic	PT Ortho	PT Neuro	PT Neuro
Saturday	Clinic	Clinic	CASE PRESENTATION	Lunch	Clinic	PT Ortho	JC	Sports

PT ORTHO- Prof. SS Rau, PT NEURO –Dr. Ritu Parna Mohanty

*S. Sahoo*  
Principal  
Principal  
Institute of Health Sciences  
Bhubaneswar

*Dr. Ritu Parna Mohanty*  
Head of the Department  
(Dept of Physiotherapy)  
Institute of Health Sciences  
RHUBANESWAR-15

*Dr. Ritu Parna Mohanty*  
Class Teacher











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## BPT Clinical Attendance

TOTAL PRESENT DURING THE MONTH		PERCENTAGE ATTENDANCE		ATTENDANCE		REGISTER									
NUMBER OF WORKING DAY		AVERAGE ATTENDANCE		FOR THE		MONTH OF..Mar									
No.	NAME	20-2-23	21-2-23	22-2-23	23-2-23	24-2-23	25-2-23	26-2-23	27-2-23	28-2-23	29-2-23	30-2-23	31-2-23	Days present	Days of absence
1	Mam Swain	A	A	A	A	A	A	A	A	A	A	A	A	14	2
2	Ankita Rawaray	A	A	A	A	A	A	A	A	A	A	A	A	14	2
3	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
4	Anurag Kumar	A	A	A	A	A	A	A	A	A	A	A	A	14	2
5	Anurag Kumar	A	A	A	A	A	A	A	A	A	A	A	A	14	2
6	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
7	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
8	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
9	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
10	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
11	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
12	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
13	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
14	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
15	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
16	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
17	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
18	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
19	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
20	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
21	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
22	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
23	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
24	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
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38	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
39	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
40	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2
41	Anshu Mishra	A	A	A	A	A	A	A	A	A	A	A	A	14	2





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