

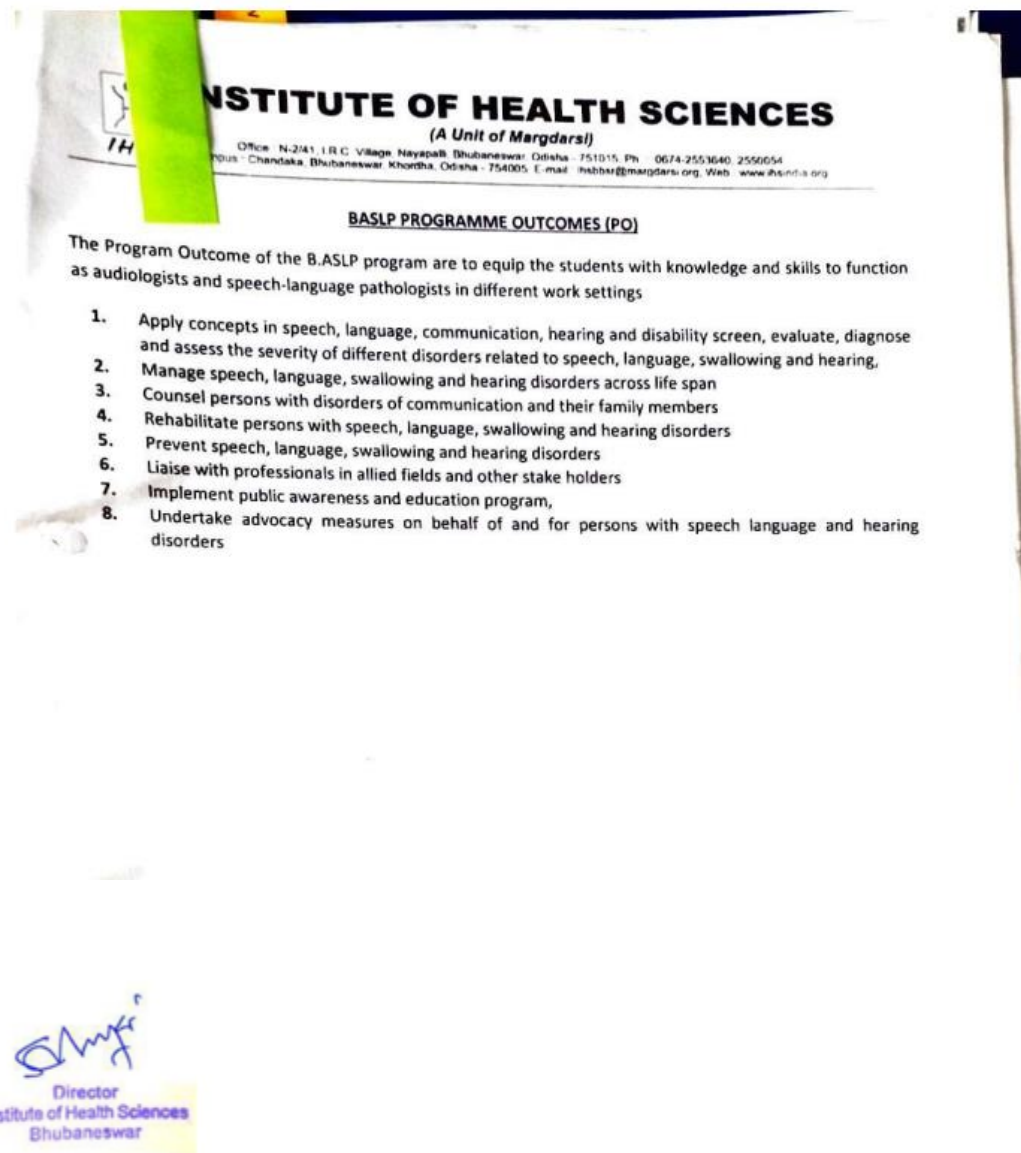


# INSTITUTE OF HEALTH SCIENCES

(A Unit of Margdarsi)

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

## 2.6.1. COURSE OUTCOMES FOR ALL COURSES





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## **BASLP Course Outcome:**

### **B.ASLP 1<sup>st</sup> semester 2019**

#### **Subject: B. 1.1- Communication Sciences**

Students have developed:

- ☐ Knowledge and critical thinking about basic human communication and hearing
  - Sensitivity including knowledge of speech, language, acoustics and typical speech sound production.
  - Speech and Language development.
  - Understanding of the scope of practice
  - History of Audiology speech language pathology practice.

#### **Subject: B.1.2- Anatomy and Physiology of Speech and Hearing**

Students have developed: Demonstrating advanced knowledge of the anatomy and physiology of:

- Basics human embryology
- Hearing and Speech Production
- Swallowing processes.

#### **Subject: B.1.3 Clinical Psychology**

- ☐ Students after completing the course have appreciated the benefits of learning
  - Neuropsychological assessment and rehabilitation.
  - Students have developed foundational knowledge of clinical psychology of normal and abnormal behaviour, cognitive, motor, emotional, social aspects of behaviour, human development, biological aspects of behaviour and psychopathology.
  - Students have demonstrated the ability to perform neuropsychological assessment and rehabilitation.

#### **Subject B.1.4 Linguistics and Phonetics**

  
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## Students have developed:

- Understanding of linguistics and its branches along with language characteristics and functions
- Ability to apply some of the techniques available for analysing morphemes
- Understanding of basic phonetics, phonology, fundamental phonological processes
- Applying distinctive feature theory to speech pathology and therapy
- Knowledge about morphology, applied linguistics and competence of language like syntax, semantics in brief
- Using IPA to accurately transcribe spoken language of typical and disordered speech sample
- Basic knowledge of the process of language acquisition, its theories and models
- Understanding different language families of world and India
- Knowledge about bilingualism and multilingualism along with history and methods of Indian writing systems acquired terminology for discussing language.

## Subject: B.1.5 Electronics & Acoustics

- Students after completing the course have appreciated the benefits of learning fundamentals of
  - Acoustics, audiometric room and its construction and its issues related to audiometric rooms.
  - Students have developed knowledge about basic electronics, components and power supply.
  - Students have demonstrated the ability to evaluate sound proofing in audiometric rooms.
  - Students have a clear-cut idea about instruments used in the field of speech and hearing.
  - Students have basic knowledge about digital signal processing.
  - Students now have more confidence in their knowledge of the subject matter.

## Subject B1.6 Research Methods and Statistics

### Students have developed:

- Knowledge of basics of research methods, need for research, formulating research question.
- Clear understanding of research design in the field of audiology and speech language pathology.
- Introductory idea about statistics and data collection along with application of statistics in speech and hearing field.

  
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## B.ASLP 2<sup>nd</sup> semester 2020

### **Subject: B.2.1 Neurology**

#### **Students have developed:**

- Basic knowledge of anatomy, physiology of nervous system
- Overview of swallowing disorders, demonstrating screening and bedside neurological examination.
- Overall idea about neural organization of speech and hearing processes.
- Associating different neural disorders with speech and hearing disorders.

### **Subject: B.2.2 Otolaryngology**

- Students after completing the course have appreciated the benefits of learning anatomy of ear, larynx, esophagus and its disorders.
- Students have developed knowledge of assessment and management options available in otolaryngology (medical line of treatment).
- Students have demonstrated the ability to apply problem-solving skills.
- Students have a clear-cut idea about oral cavity and its pathological conditions.
- Students have basic knowledge about airway management.

### **Subject: B.2.3 Speech-Language Pathology; 2<sup>nd</sup> sem 2020**

After the completion of the course, the student will be able to understand:

- Basic concepts and methods of diagnostics and therapeutics
- Basic requirement for clinical setup.
- The tools to be used for diagnosis and different assessment principles.
- General principle approaches, planning for speech-language therapy.
- Concept of individual and group therapy.
- Overview of AAC methods of therapy.
- Different protocols for the assessment and management of speech and language disorders.
- Issues related to bi/multilingualism.
- Method of managing child and adult with speech and language disorder.
- Knowledge of different acts, facilities, concessions available for person with speech and hearing issues.

  
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## **Subject: B.2.4- Audiology**

Students have developed: Clear-cut idea about;

- Differential sensitivity.
- Basic concept and taking case history for adults and children.
- Knowledge about tuning fork test.
- Pure tone Audiometry, Speech Audiometry.
- Perform Clinical masking and calibration of instruments (both Objective and Subjective).



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## **BASLP 3<sup>rd</sup> Semester Year 2020-2021**

### **Subject:- B.3.1 Voice And Its Disorders**

After the completion of the course, the student will be able to understand

1. Understand the parameters for development of voice and various voice mechanics.
2. Understand the basic concepts in voice and its production.
3. Understand the classification of voice disorders.
4. Understand the principles and protocols of assessment of voice disorders.
5. Understand the principles and protocols of management of voice disorders.
6. Understand the intervention strategies for voice disorders.

### **Subject:- B.3.2 Speech Sound Disorder**

After the completion of the course, the student will be able to understand

1. Fundamentals of articulatory phonetics- phonetic description of vowels & consonants.
2. Speech sound sampling procedures- issues related to single word and connected speech samples; imitation and spontaneous speech samples, contextual testing, recording of speech samples.
3. Transcription of speech sample- transcription methods- IPA and extension of IPA; broad and narrow transcription.
4. Phonological processes analyses- language specific issues, identification and classification of errors.
5. Assessment of oral peripheral mechanism.
6. Basic consideration in therapy- target selection, basic framework for therapy, goal attack, strategies, organizing therapy sessions, individual vs. group therapy.
7. Motor based treatment approaches- principles of motor learning.
8. Introduction to linguistically based treatment approaches- distinctive feature therapy.

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## Subject:- B.3.3 Diagnostic audiology :Behavioral Tests

After the completion of the course, the student will be able to understand

1. Clear cut idea about differentiating between cochlear and retro cochlear pathology through various special tests selection and administration.
2. Tests to diagnose functional hearing loss
3. Advanced knowledge about central auditory processing disorder, summarization with the tests including special tests available to diagnose CAPD.
4. Assessment of persons with vestibular disorder.
5. Overview of tinnitus and hyperacusis with assessment and management.

## Subject:- B.3.4 Amplification Devices

After the completion of the course, the student will be able to understand

1. Knowledge about historical development of hearing aids
2. Understand the components, classification and types of hearing aids with its function.
3. Understand about technological aspects of hearing aids
4. Knowledge about purpose and parameters to be considered in electro-acoustic measurements for hearing aids
5. Select hearing aids for various hearing loss after examining various aspects of the disabling hearing loss and the individual it effects.
6. To gain knowledge about mechano-acoustic couplers (ear molds) and its effects on hearing aid output

  
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## BASLP 2<sup>nd</sup> year 2019-20

### **Subject: B.2.1 Speech and language diagnostics and therapeutics**

- Understand the role of studying therapeutic and diagnostic in fields of speech language pathology.
- Understand how to build different therapeutics and diagnostics setup.
- Understand to code of ethics to be followed in therapeutics and diagnostics in field of speech language pathology.
- Understand to use of different therapy techniques.
- Understand the importance of reinforcement principles and different strategies in speech and language therapy.

### **Subject: B.2.2 Articulation and phonological disorders**

- Understand the role of studying articulation and phonology in the field of speech language pathology.
- Understand the typical patterns of articulation and phonological development.
- Understand the principles and protocols of assessment and management of articulation and phonological disorder, cleft lip and palate, glossectomy and mandibulectomy.
- understand the prevention program and counselling for person with articulation and phonological disorder, cleft lip and palate, glossectomy and mandibulectomy.

### **Subject: B.2.3 Voice and laryngectomy**

On the completion of this subject, the students will be able to:

- Understand the role of studying voice disorder in the field of audiology, speech language pathology.
- Understand the typical patterns of voice disorder.
- Understand the principles and protocol of assessment of voice disorder.
- Understand the principles and protocol of management of voice disorder.
- Understand the prevention program and counselling for person with voice disorder.

  
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## Subject: B.2.4 Motor speech disorders

On the completion of this subject, the students will be able to:

- Understand the role of studying motor speech disorders in the field of audiology, speech and language pathology.
- Understand the typical patterns of motor speech disorders.
- Understand the principles and protocol of assessment of motor speech disorder.
- Understand the principles and protocol of management of motor speech disorder.
- Understand the prevention program and counselling for person with motor speech disorders.

## Subject: B.2.5 Diagnostic audiology

Students have developed:

- Demonstrating basic knowledge about diagnostic audiology, clear cut idea about differentiating between cochlear and retro-cochlear pathology through various special test selection and administration
- Foundational knowledge about immittance audiometry and its clinical application, ideas about best available and selection of test to detect pseudohypacusis.
- Advanced knowledge about Central auditory disorders, summarization with the test including special tests available to diagnose Central auditory disorders.

## Subject: B.2.6 Technology and amplification devices for persons with hearing impairment

On completion of the course the student will be able to:

- Understand the basic of electricity electronics and digital processing.
- Understand working of various transducers.
- Understanding the components of hearing aids and how they function.
- Identify what type and style of hearing aid to prescribe to an individual.
- The importance of EAC and how they affect the working of a hearing aid.
- Select hearing aids for various hearing loss after examining various aspects of the disabling hearing loss and the individual effects.

  
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## **Subject: B.2.7 Paediatric audiology**

On completion of the course the students will be able to:

- Understand the development of auditory system and relate it to various syndromic conditions for identification of various aspects of diagnosis and rehabilitation
- Understand and the auditory behaviour and their usage in screening for hearing loss at various ages in human development.
- Understand and perform very subjective and objective tests for the diagnosis of paediatric population
- Understand and perform various special tests to identify paediatric population with multiple disabilities CAPD, ANSD and functional hearing loss.

## **Subject: B 2.1.2 Indian Constitution**

After Completion of the course, the students will be able to:

- Understand the preamble and its importance to the Indian constitution.
- The election functioning of various Government officials.
- Rights and Duties of a responsible citizen of India.
- The importance of abiding by the rules and regulations laid in the constitution and the consequences, if failing to do so.



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**BASLP 3<sup>rd</sup> year 2019-20**

## **Subject: B.3.1 Fluency and it's Disorders**

- Understand the role of studying fluency in the field of audiology, speech language pathology.
- Understand the typical patterns of fluency
- Understand the principles and protocols of assessment of fluency disorder.
- Understand the principles and protocols of management of fluency disorder.
- Understand the prevention program and counselling for person with fluency disorder.

## **Subject: B.3.2 Neurological language disorders**

On the completion of this subject, the students will be able to,

- Understand the role of studying adult neurogenic language disorders in the field of audiology and speech language pathology.
- Understand the types of adult neurogenic language disorders.
- Understand the principles and protocol of assessment of adult neurogenic language disorders.
- Understand the principles and protocol of management of adult neurogenic language disorders.
- Understand the prevention program and counselling for person with adult neurogenic language disorders.

## **Subject: B.3.3 Rehabilitative audiology learning outcomes**

- Basic knowledge about speech reading, factors influencing it.
- Insight to auditory training its method and strategies.
- Idea about managing hearing impaired individual with special needs.
- Overall idea about assistive listening devices, its classification and selection.
- Familiarisation with implantable devices like MEI, CI, BAHA, ABI. Demonstrating knowledge about utilisation of technology/devices in tinnitus, hyperacusis management.

## **Subject: B.3.4 Noise management and hearing conservation learning outcomes**

- Overall idea about noise its sources and types. Knowledge about auditory and non-auditory effects of noise exposure. Adminstrating different physical test in noise induced hearing loss (NIHL).
- Measuring noise and vibration instrumentation and procedure. Advanced knowledge about hearing conservation, summarization with their protective devices (E-PDs).



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- Understanding legislation related to noise, different Indian and American acts, studies, standards along with the claims of hearing loss, its law and evaluation process.

## **Subject: B.3.5 Community oriented professional practice in speech language and hearing**

On completion of the course students will be able to:

- Understand the epidemiology incidence and prevalence of various speech language and hearing disorders and plan prevention accordingly
- Understand the models of service delivery and use them appropriately for community-based rehabilitation
- Understand the legislative support for rehabilitation and abide by it
- Understand the importance of documentation and ethics of an ASLP
- Transfer their skill appropriately to different medical and non-medical personnel.
- Write a proposal for funds with evidence of viability and sustainability.

## **Subject: B.3.6 Basics statistics & research enquiry in audiology and speech language pathology**

- Students will be proficient in statistical in computation.
- Students will have the skills to carry out research.
- Can distinguish between quantitative research and qualitative research.
- Can analyse the quantitative facts better
- Better understanding of research designs.

## **Subject: B.3.1.3 Environmental Studies**

After completion of this subject, the students will be able to:

- Understand the importance of conservation of environment
- Plan for various conservation programs.
- Acquire an attitude of concern for the environment
- Will use the knowledge about noise and air pollution against NIHL and other factors responsible for various speech and hearing problems.



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## Bachelors of Audiology Speech Language Pathology

**BASLP 1<sup>st</sup> semester**

**Subject: B.1.1; Communication Sciences**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	M	L	L	M	L	L	L	L
2	M	H	M	M	L	L	M	L
3	H	H	H	H	M	M	M	M
4	M	L	L	L	L	L	L	L

**Subject: B.1.2- Anatomy and Physiology of Speech and Hearing**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	M	M	M	M	M	L	M	L
2	M	M	M	M	M	M	M	L
3	M	M	M	M	M	M	M	L

**Subject: B.1.3- Clinical Psychology**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	H	H	M	H	M	M	L	L
2	M	M	H	M	M	L	M	L
3	H	H	H	H	M	L	L	L

  
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## Bachelors of Audiology Speech Language Pathology

**BASLP 1<sup>st</sup> semester**

**Subject: B.1.1; Communication Sciences**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	M	L	L	M	L	L	L	L
2	M	H	M	M	L	L	M	L
3	H	H	H	H	M	M	M	M
4	M	L	L	L	L	L	L	L

**Subject: B.1.2- Anatomy and Physiology of Speech and Hearing**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	M	M	M	M	M	L	M	L
2	M	M	M	M	M	M	M	L
3	M	M	M	M	M	M	M	L

**Subject: B.1.3- Clinical Psychology**

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	H	H	M	H	M	M	L	L
2	M	M	H	M	M	L	M	L
3	H	H	H	H	M	L	L	L

  
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## Subject: B.1.4 Linguistics and Phonetics

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	H	L	L	M	L	L	L	L
2	H	H	M	M	L	L	L	L
3	H	H	H	H	M	L	L	L
4	H	H	M	M	L	M	L	L
5	H	H	H	H	L	M	L	L
6	M	L	L	L	L	L	L	L
7	H	H	H	H	M	M	M	L
8	M	H	H	H	L	M	H	M
9	H	M	H	H	L	M	M	M

## Subject: B.1.5 Electronics and Acoustics

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	H	L	L	M	L	M	L	L
2	H	H	M	L	L	L	L	L
3	H	H	H	H	M	L	L	L
4	H	H	M	M	L	M	L	L
5	H	H	H	H	M	M	L	L
6	M	L	L	L	L	L	L	L

  
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**Subject:** B.1.6; Research Methods and Statistics

Course Outcome↓	1	2	3	4	5	6	7	8
Program Outcome→								
1	L	L	L	L	L	L	L	L
2	L	L	L	L	L	L	L	L
3	L	L	L	L	L	L	L	L

  
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## B.P.T. PROGRAMME OUTCOMES (PO)

- PO1: Capability of demonstrating comprehensive knowledge of physiotherapy.  
PO2: Ability to analyze the results and apply them in various problems.  
PO3: Ability to employ critical thinking in understanding the concepts in every area of BPT programme.  
PO4: Capability to solve problems by using research-based knowledge and research methods and can set short term and long term goals for rehabilitation.  
PO5: Possess knowledge of the values and beliefs of multiple cultures and a global perspective and capability to effectively engage in a multicultural society and interact respectfully with diverse groups. Create, select, and apply appropriate techniques and resources.  
PO6: Ability to identify unethical behavior and adopting objective, unbiased and truthful actions in all aspects of their programme.  
PO7: Ability to work independently and with various multidisciplinary in hospitals and community centres.  
PO8: Ability to communication effectively and flexibly in a manner that is appropriate for the patients and other healthcare professionals.  
PO9: Develop a sense of research to predict cause-and-effect relationships..

  
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## SEMESTER- I

### BPT COURSE OUTCOMES

#### Psychology

After the completion of the subject, students will be able to perform the following:

1. Student describes the definition and scope of Psychology
2. Student understands the different branches of Psychology.
3. Student describes the main psychological processes of psychology like learning, memory, perception, emotion and motivation.
4. Student will be able to understand the importance of heredity and environment in the development of personality and intelligence.
5. Student will be able to understand the practical importance of studying child Psychology for rehabilitation services.
6. Student knows how important is the importance of Industrial Psychology – human factors of engineering, decision making process, stress and mental health

#### Sociology

After the completion of the subject, students will be able to perform the following:

1. Demonstrate knowledge of core sociological concepts.
2. Demonstrate knowledge of how to use theory to conceptualize a sociological problem.
3. Develop an ability to use social scientific research methods to address sociological questions.
4. Demonstrate the ability to communicate sociological knowledge to others.
5. Develop the knowledge, skills, and attitudes necessary to be engaged members of the community.
6. Possess analytical skills in areas such as policy analysis, administration management, communication, quantitative analysis and problem solving.

#### Therapeutic I

1. Student's benefits basic concept of physiotherapy.
2. Student benefits basic concept of exercise therapy & electrotherapy.
3. Students learns the movement pattern, classification of movements
4. Students benefits the techniques of free exercises.
5. Learns the alignment of posture and its correction techniques
6. Relaxation techniques like massage, assistive techniques RPM Different electrical modalities their use and therapeutic effects.



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## **SEMESTER- II**

### **Anatomy**

On completion of this subject, the students will be able to perform the following:

1. Apply concept and knowledge of bones, joints, muscles, systems and functions of body organs.
2. Identify and locate the body structures in a human body.
3. Evaluate health information and medical research.

### **Physiology**

On completion of this subject, the students will be able to perform the following:

1. Have an enhanced knowledge and appreciation of mammalian physiology;
2. Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems;
3. Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail;
4. Be able to perform, analyse and report on experiments and observations in physiology;
5. Be able to recognise and identify principal tissue structures.

### **Biochemistry**

On completion of this subject, the students will be able to perform the following:

1. Demonstrate knowledge and understanding of the molecular machinery of living cells;
2. Demonstrate knowledge and understanding of the principles that govern the structures of macromolecules and their participation in molecular recognition;
3. Demonstrate knowledge and understanding of the principles and basic mechanisms of metabolic control and molecular signalling;
4. Use basic laboratory skills and apparatus to obtain reproducible data from biochemical experiments;
5. Implement experimental protocols, and adapt them to plan and carry out simple investigations;
6. Analyse, interpret, and participate in reporting to their peers on the results of their laboratory experiments;
7. Participate in and report orally on team work investigations of problem-based assignments;
8. Build on their knowledge and understanding in tackling more advanced and specialised courses, and more widely to pursue independent, self-directed and critical learning.



# INSTITUTE OF HEALTH SCIENCES

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## SEMESTER- III

### Community Medicine

1. Apply the principles and process of health management to enhance the effectiveness and efficiency of the national health programs
2. Plan, organize, implement, monitor or evaluate outcome and impact of health care programs and services.
3. Acquire the epidemiological know how and understand the dynamics of transmission of common communicable diseases for necessary measures to prevent and control diseases
4. Identify through community diagnosis, the social, cultural, environmental and psychological factors influencing health behavior and apply these principles in community level intervention programs.
5. Integrate the know-how of diagnosis and management of health issues with the science of public health practice and expertise of health communication.
6. Critically appraise National health policies, priorities and approaches.
7. Plan, organize, implement and evaluate teaching/learning sessions for medical and paramedical personnel. Design research protocols, collect and analysis data on bio-medical, epidemiological, social and health service issues.

### Biomechanics

1. Student defines basic concepts of clinical biomechanics.
2. Student describes the phases and determinants of gait correct.
3. Student lists the characteristics of normal and pathological gait.
4. Student describes the basics of biomechanics of tissues, their rebuilding and healing
5. Student is able to practically determine the weight and position of centre of gravity section body and overall centre of gravity of man.
6. Student analyzes and evaluates the movement in the joints.
7. Student is estimated adaptable to performance locomotor disabilities.
8. Student recognizes the determining factors in practice the opportunity to take rehabilitation.
9. Student knows how important is the importance of biology tissue in the patient's adaptation to the state after damage to the musculoskeletal system.

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## SEMESTER- IV

### Surgery

Students will be able to perform the following

1. The student will be able to manage different postoperative emergencies and complications.
2. The student will successfully demonstrate directed history and physical examinations on the surgical patient, with emphasis on preoperative planning and decision-making.
3. The student will become familiar with ward procedures.
4. The student will participate in patient care activities.

### Medicine 1:

Students will be able to perform the following

1. Diagnose and manage common health problems of the individual and the community
2. Commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels. Using his/her clinical skills based on history, physical examination and relevant investigations

### Medicine 2

Students will be able to perform the following

1. After completion of lectures and demonstrations, in addition to clinics the student will be able to demonstrate a understanding of the diseases that therapists would encounter in their practice
2. In addition, the student will be able to demonstrate proficiency by written, oral and practical internal evaluation.

### PCPC

Students will be able to perform the following

1. Apply biomedical and behavioral scientific knowledge to the physiotherapy evaluation and management of complex pulmonary and cardiovascular dysfunction
2. Effectively assess and treat complex paediatric cardiopulmonary disorders.
3. Appropriately select, modify as necessary, and correctly demonstrate measurement and testing procedures commonly used in assessing patients with complex cardiopulmonary dysfunction.



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## **SEMESTER- V**

### **Alternative medicine**

On completion of this subject, the students will be able to :

1. To apply yoga, naturopathy and acupressure as an adjunct treatment for various condition.
2. To understand the utility of above therapy in aiding in healing and relaxation.

### **Physiotherapy in surgical condition**

#### **GENERAL SURGERY**

On completion of this subject, the students will be able to

1. Demonstrate a general understanding of the surgical condition further understanding its etiology and pathology, the patient's symptoms and the resultant functional disability.
2. Understand the limitations imposed by various surgical condition on any therapy.
3. surgical conditions in which physical therapy will be an important component of overall management
4. physiotherapeutic techniques for various conditions

#### **PLASTIC SURGERY AND BURN**

On completion of this subject, the students will be able to

1. A deep insight on post operative case of graft and flap and burn patients that therapists would encounter in their practice.
2. Understand the etiology and pathology, the patient's symptoms and the resultant functional disability.
3. Understand the limitations imposed by various reconstructive surgical conditions on any therapy.
4. Reconstructive surgical conditions in which physical therapy will be an important component of overall management
5. Physiotherapeutic techniques for various conditions

#### **OBSTETRICS AND GYNAECOLOGY**

On completion of this subject, the students will be able to

1. Understand the anatomy, physiology and various conditions in Obstetrics and Gynaecological conditions relevant to Physiotherapy.
2. Assess and provide physiotherapeutic techniques in Obstetrics and Gynaecological
3. Conditions for relief of pain, relaxation, conditioning and posture.
4. Physiotherapeutic techniques for various conditions



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## SEMESTER –VI

### Medicine III

On completion of this subject, the students will be able to

1. Demonstrate a general understanding of the neurological condition further understanding its etiology and pathology, the patient's symptoms and the resultant functional disability.
2. Understand the limitations imposed by various surgical procedures
3. A deep insight on post operative case of laminectomy etc patients that therapists would encounter in their practice.

### Surgery II

1. On completion of this subject, the students will be able to
2. Demonstrate a general understanding of the orthopedic condition further understanding its etiology and pathology, the patient's symptoms and the resultant functional disability.
3. Understand the limitations imposed by various orthopedic conditions on any therapy.

### Medicine IV

1. On completion of this subject, the students will be able to
2. Demonstrate a general understanding of the neuro- psychiatric condition further understanding its etiology and pathology, the patient's symptoms and the resultant effect on prognosis.

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## SEMESTER -VII

### Rehab Science

1. After completion of the course the student shall be conversant with the various aspects of rehabilitation and its importance in total rehabilitation of the disabled. Like
2. Conceptual framework of rehabilitation, team members, importance of each member in the field of rehabilitation.
3. Epidemiology and Preventive aspects of disability .Its implications- individual, family, social, economic and the state.
4. Community based Rehabilitation and out each programs to Rehabilitate persons with disabilities living in rural area.
5. Statutory provisions, Scheme of assistance to persons with disability.
6. Management of communication and behavioral problems, mental retardation, visual impairments.
7. Knowledge of various mobility aids, splints, orthosis and prosthesis.

### Personal Management & Ethics

On completion of this subject, the students will be able to :

1. Understand the ethical principles of physiotherapy profession.
2. Understand principles of management in personal management, time management and
3. Administration including budgeting.

### PDPF

1. By acquiring the knowledge of the above, the student shall be competent to evaluate interpret the clinical findings and plan a suitable management programme for the patients attending the clinic,
2. The skills of the various manual therapy techniques and neurological approaches shall enhance the therapeutic skills of the students.



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## **SEMESTER – VIII**

### **PT NEUROLOGICAL CONDITIONS**

On completion of this subject, the students will be able to:

1. Ability to evaluate, diagnose and treat various neurological conditions
2. Proficiency in the application of various therapeutic approaches in the management of neurological conditions.

### **PT ORTHOPAEDIC CONDITIONS**

1. On completion of this subject, the students will be able to :
2. Enhancement of skills in evaluation ,diagnosis and selection of appropriate therapeutic protocols for various orthopaedic disorders

**Marking: 'H' is High (100%), 'M' is Medium (100-30%) and 'L' is Low (less than 30%)**

  
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## BACHLOR OF PHYSIOTHERAPY

### 1<sup>ST</sup> SEMESTER

#### PSYCHOLOGY

PO CO	1	2	3	4	5	6	7	8	9
1	M	L	L	L	M	H	L	M	L
2	M	L	L	L	M	H	L	M	L
3	M	L	L	L	M	H	L	M	L
4	L	L	L	L	L	L	M	L	L
5	H	L	L	L	M	H	L	M	L
6	M	L	L	M	M	H	L	M	L

#### SOCIOLOGY

PO CO	1	2	3	4	5	6	7	8	9
1	L	L	L	L	M	M	L	M	L
2	M	L	L	L	M	M	M	M	M
3	M	L	L	H	M	M	M	M	H
4	M	L	L	L	M	H	H	M	L
5	M	M	L	L	M	M	M	M	L
6	M	M	L	M	M	H	M	H	H

#### Therapeutics-1

PO CO	1	2	3	4	5	6	7	8	9
1	H	M	H	L	M	L	L	L	L
2	L	M	M	M	H	M	H	M	H
3	L	M	M	M	H	M	H	M	H
4	L	M	L	L	H	M	M	L	L
5	L	L	M	L	H	M	M	L	H
6	L	L	H	H	L	H	H	M	M

  
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