

<b>INSTITUTE</b>	<b>FACULTY OF PHYSIOTHERAPY</b>
<b>PROGRAM</b>	<b>MASTER OF PHYSIOTHERAPY</b>
<b>SEMESTER</b>	<b>2</b>
<b>COURSE TITLE</b>	<b>PHYSICAL AND FUNCTIONAL DIAGNOSIS II</b>
<b>COURSE CODE</b>	<b>17MP0201</b>
<b>COURSE CREDITS</b>	<b>3</b>

**Objective:**

- 1 To learn the skills related to communication , assessment and management and recognize potential adverse outcomes of the various disorders
- 2 To learn the interpretation of clinical skills and diagnostic tools for proper diagnosis of the condition
- 3 To understand the importance of interdisciplinary team work with other team members and health care professionals

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Demonstrate skills related to communication, assessment and management and recognize potential adverse outcomes of the various disorders.
- 2 Interpret the clinical findings & diagnostic tools like laboratory report and imaging studies based on the evidence.
- 3 Integrate diagnostic skill in clinical assessment and management of various conditions.
- 4 Demonstrate an effective interdisciplinary team work and communicate effectively with various stakeholders involved in healthcare.

**Pre-requisite of course:** To have the basic knowledge of common conditions: familiarity with common orthopedic, neurological, and cardiopulmonary conditions

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
1	0	1	50	30	20	50	50

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Psychological aspects of rehabilitation</b> Psychological aspects of rehabilitation in disability, Psychological tests	5
2	<b>Developmental screening</b> Factors affecting motor control assessment, motor control theories, mechanism, patterns of normal development, Specific procedures and test used to assess motor control defects	5

Contents : Unit	Topics	Contact Hours
3	<b>Anthropometry</b> Body measurements - Height - Weight – Circumference , Body Proportion - Body Mass Index (BMI) - Waist Hip Ratio (WHR), Body Composition (i). Somatotyping (ii). Methods of measurement (iii) Skin fold measurement (iv). Water displacement(v) Under water weighing (vi) .Bioelectric Impedance Analysis (BIA)	5
4	<b>Differential diagnosis in Physiotherapy</b> Assessment and special test	10
5	<b>Functional evaluation</b> The concepts of health status impairment; functional limitations; disability and handicap; definition of functional activity and the purposes and components of the functional assessment; selection of activity and roles for an individual based on his or her capabilities and functional limitations , Various forms of functional tests; physical function test and multi dimensional functional assessment instrument, identification of instrument for testing function., Various scoring methods used in functional assessment, Reliability and validity of various functional assessments. Evaluation of aging	15
<b>Total Hours</b>		<b>40</b>

#### Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	<b>Developmental screening</b> Factors affecting motor control assessment, motor control theories, mechanism, patterns of normal development, Specific procedures and test used to assess motor control defects	5
2	<b>Anthropometry</b> Body measurements - Height - Weight – Circumference, Body Proportion - Body Mass Index (BMI) - Waist Hip Ratio (WHR), Body Composition (i). Somatotyping (ii). Methods of measurement (iii) Skin fold measurement	5
3	<b>Differential diagnosis in Physiotherapy</b> Assessment and special test	5
4	<b>Functional evaluation</b> The concepts of health status impairment; functional limitations; disability and handicap; definition of functional activity and the purposes and components of the functional assessment; selection of activity and roles for an individual based on his or her capabilities and functional limitations, Various forms of functional tests; physical function test and multi dimensional functional assessment instrument, identification of instrument for testing function., Various scoring methods used in functional assessment, Reliability and validity of various functional assessments. Evaluation of aging	5
<b>Total Hours</b>		<b>20</b>

**Textbook :**

- 1 Differential Diagnosis Physical Therapists Screening for Referral , Goodman Snyder, Elsevier, 2007
- 2 Illingworth's The Development of the Infant and Young Child Normal and Abnormal, Ronald S Illingworth, Elsevier, 2012
- 3 Physical Rehabilitation, Susan B. O'Sullivan, , F.A. Davis Company, 2014
- 4 Pocket Atlas of Sectional Anatomy , Torsten B. Moeller , Thieme, 2007
- 5 Orthopedic Physical Assessment , David J Magee, Saunders, 2014

**References:**

- 1 Pathology and Intervention in Musculoskeletal Rehabilitation , Pathology and Intervention in Musculoskeletal Rehabilitation , David J Magee, Saunders, 2009
- 2 Motor Control: Translating Research Into Clinical Practice, Motor Control:, Motor Control: Translating Research Into Clinical Practice, Motor Control:, Anne Shumway-Cook, Marjorie H. Woollacott , Wolters Kluwer, 2017
- 3 ACSM'S Guidelines For Exercise Testing and Prescription , ACSM'S Guidelines For Exercise Testing and Prescription , ACSM, Wolters Kluwer, 2013

**Suggested Theory Distribution:**

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
0.00	0.00	35.00	35.00	30.00	0.00

**Instructional Method:**

- 1 Theory + Practical

**Supplementary Resources:**

- 1 NA