

**Kingdom of Saudi Arabia**

**The National Commission for Academic  
Accreditation & Assessment**

**COURSE SPECIFICATION**

<b>Institution:</b>	College of Applied Medical Sciences.
<b>Department:</b>	Rehabilitation Sciences Department - Physical Therapy.

#### A Course Identification and General Information:

**Course title and code:** Physiotherapy for Pediatrics (RHS 326).

**Credit Hours:** 2 Theory + 1 Practical

**Program(s) in which the course is offered:** Pediatric program.

**Name of faculty member responsible for the course:** Dr. Samia Abdel Rahman, Mrs. Arwa Alnegimshi.

**Level/year at which this course is offered:** Level 6/ Third year.

**Pre-requisites for this course:** -----

**Co-requisites for this course:** RHS 336

#### B Objectives

<p>1. Summary of the main learning outcomes for students enrolled in the course.</p> <p>Upon the completion of this course, students should have a clear understanding of the followings:</p> <ol style="list-style-type: none"> <li>1. Evaluation in pediatrics.</li> <li>2. Normal growth and development.</li> <li>3. Different treatment measures for neuro-pediatric problems.</li> <li>4. Different treatment measures for orthopedic problems in children.</li> <li>5. Different treatment measures some genetic disorders.</li> </ol>
<p>2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field)</p>

#### Course Description:

This course introduces the students to the evaluation and treatment of different pediatric problems.

1. Topics to be Covered	No. of Weeks	Contact Hours	
		lecture	Practical
Orientation to the Course.	1	2	-
Evaluation in pediatrics.	1	2	1
Normal growth and development.	1	2	1

Cerebral palsy: Introduction, evaluation and treatment.	3	6	3
Spina bifida: Evaluation and treatment.	1	2	1
Peripheral nerve injuries: Facial nerve lesions and brachial nerve lesions (Evaluation and treatment).	2	4	2
Muscle disease.	1	2	1
Poliomyelitis.	1	2	1
Orthopedic Disorders: Congenital hip dislocation, Foot deformities and Muscular torticollis.	2	4	2
Genetic disorders.	1	2	1

<b>2 Course components (total contact hours per semester):</b>				
Lecture: 28 hours	Tutorial: 13 hours	Laboratory	Practical/Field work/Internship	Other:

### 3. Additional private study/learning hours expected for students per week.

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### 4. Development of Learning Outcomes in Domains of Learning:

#### a. Knowledge:

(i) Description of the knowledge to be acquired:

- 1- List the normal stages of growth and development.
- 2- List the common neuro-pediatric disorders.
- 3- List the common orthopaedic disorders in paediatrics.
- 4- Describe the physical therapy procedures used in paediatric disorders.
- 5- Outline the common genetic disorders requiring physical therapy.

(ii) Teaching strategies to be used to develop that knowledge:

- Lectures.
- Practical sessions.

(iii) Methods of assessment of knowledge acquired:

- Written Examinations.
- Quizzes.

<ul style="list-style-type: none"> <li>– Practical procedures evaluation.</li> <li>– Assignments.</li> </ul>
<b>b. Cognitive Skills:</b>
<p>(i) Cognitive skills to be developed:</p> <p>1- Integrate the data obtained from the symptoms, signs and evaluation into meaningful problems outcomes with the appropriate treatment procedures.</p> <p>2- Explain different physical therapy strategies provided for common paediatric disorders.</p>
<p>(ii) Teaching strategies to be used to develop these cognitive skills:</p> <ul style="list-style-type: none"> <li>- Take home: Students will be given an assignment.</li> </ul>
<p>(iii) Methods of assessment of students' cognitive skills:</p> <ul style="list-style-type: none"> <li>- Annual oral questions following the lectures.</li> </ul>
<b>c. Communication, Information Technology and Numerical Skills:</b>
<p>(i) Description of the skills to be developed in this domain: <b>NA</b></p>
<p>(ii) Methods of assessment of students numerical and communication skills: <b>NA</b></p>
<b>d. Interpersonal Skills and Responsibility</b>
<p>(i) Description of the interpersonal skills and capacity to carry responsibility to be developed: <b>NA</b></p>
<p>(ii) Teaching strategies to be used to develop these skills and abilities: <b>NA</b></p>
<p>(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility: <b>NA</b></p>
<b>e. Psychomotor Skills (if applicable)</b>
<p>(i) Description of the psychomotor skills to be developed and the level of performance required</p> <ol style="list-style-type: none"> <li>1. Perform reflexive evaluation.</li> <li>2. Apply Bobath technique.</li> </ol>

3. Apply Fay technique.
4. Apply facial massage.
5. Perform stretching exercises.

(ii) Teaching strategies to be used to develop these skills

- Practical sessions

(iii) Methods of assessment of students psychomotor skills

- Practical examination.

#### 5. Schedule of Assessment Tasks for Students During the Semester

Assessment	Assessment task	Week due	Proportion of Final Assessment (%)
1	1 <sup>st</sup> Midterm (written exam)	6 <sup>th</sup> week	15
2	2 <sup>nd</sup> Midterm (written exam)	12 <sup>th</sup> week	15
3	Assignment and Quizzes	One Assignment in 2 <sup>nd</sup> week One quiz in 4 <sup>th</sup> week 2 <sup>nd</sup> quiz in 11 <sup>th</sup> week	10
4	Practical exam	14 <sup>th</sup> week	20
5	Final exam (written exam)	18 <sup>th</sup> week	40

#### D. Student Support:

1. Arrangements for availability of faculty for individual student consultations and academic advice:
  - About 2 hours per week.

#### E. Learning Resources:

1. Required Text(s):

- Tecklin J (1994): Pediatric Physical Therapy. 2<sup>nd</sup> ed. Philadelphia. J. B. Lippincott Company.

2. Essential References:

- Fiorentino M (1990): Reflex Testing Methods for Evaluating C.N.S Development. U.S.A. Charles C Thomas Publisher.

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List):

- Scrutton D (1984): Management of Motor Disorders of Children with Cerebral Palsy. Oxford, Blackwell Scientific Publications.
- Pellegrino L (1997): Children with Disabilities. 4<sup>th</sup> ed. Baltimore, Paul H. Brookes Publishing Co.
- Bobath B and Bobath K (1975): Motor Development in different Types of Cerebral Palsy. London,

Heinemann Medical.
- Lecture notes: handout notes prepared by course instructor.
4-.Electronic Materials, Web Sites etc
- <b>Faculty Web site: <a href="http://faculty.ksu.edu.sa/71757/default.aspx">http://faculty.ksu.edu.sa/71757/default.aspx</a></b>
5- Other learning material such as computer-based programs/CD, professional standards/regulations

#### F. Facilities Required:

1. Accommodation (Lecture rooms, laboratories, etc.):
- Twenty four seats are required at least.
- Twelve plinths (bed) are required for practical sessions.
2. Computing resources:
- One is required with audiovisual materials.
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)
- Mats
- Dolls
- Mirror

#### G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
- Evaluation and questionnaire regarding the course as a whole at the end of the semester using NCAAA checklist and the university electronic evaluation.
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department
- Discussion and feedback during the lectures and tutorials activities.
- Personal interview.
3 Processes for Improvement of Teaching
- Attending workshops on medical education.
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4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
- Review written exams by one independent staff.
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.