



Course Specifications

Course Title:	Reproductive
Course Code:	REP232
Program:	Bachelor of Medicine, Bachelor of Surgery (MBBS)
Department:	NA
College:	College of Medicine
Institution:	Alfaisal University

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A. Course Identification

1. Credit hours: 2 (1+2+0)
2. Course type
a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Sem 3, Year 2
4. Pre-requisites for this course (if any): Sem 1 and 2
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	23	53%
2	PBL, Labs	20	47%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	23
2	Laboratory/Studio	
3	Tutorial	20
	Total	43

B. Course Objectives and Learning Outcomes

1. Course Description

The basic objective of this block is to help students comprehend the structure and function of the male and female reproductive systems and how the female reproductive system adapts for pregnancy and childbirth. This includes the structural organization of the male reproductive system, both at the gross and microscopic level, to deliver spermatozoa and of the female reproductive system for the maturation of ova, fertilization, and development of the embryo and fetus. This block will enable students to appreciate the structure and function of the breast, placenta, and pelvis and the structural organization of the various endocrine glands in different parts of the body, control, and effects of hormones on the reproductive system. Students are expected to be able to discuss the basic aspects of the development of the male and female reproductive organs, and the developmental basis of the major malformations seen in the clinics.

2. Course Main Objective

By the end of this course students will be able to describe the embryonic development, fetal maturation, and perinatal changes of the reproductive system, structure and function of the male

and female reproductive organs, including the breast. They should be able to correlate the relationship of hypothalamic-pituitary-gonadal axis to the sex steroids and gestational hormones.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Explain the developmental origins of gonads and sex determination: Embryology	PLO1,3,5
1.2	Describe the structural organization of the male reproductive system, erection and ejaculation: Male Anatomy & Physiology	PLO1,3,5
1.3	Explain the process of spermatogenesis and the hypothalamo-pituitary-gonadal axis: Male Physiology	PLO1,3,5
1.4	Explain the process of oogenesis and the hypothalamo-pituitary-gonadal axis: Female Physiology	PLO1,3,5
1.5	Describe the role of female hormones during the menstrual cycle and pregnancy until lactation: Female Physiology & Histology	PLO1,3,5,22
2	Skills :	
2.1	Identify the gross features of various pelvic organs of female reproductive system: Anatomy	PLO5
2.2	Identify & describe the gross and microscopic features of ovary and uterus at different stages of maturation, menstrual cycle and pregnancy: Histology & Anatomy	PLO5
2.3	Identify & describe the gross and microscopic features of breast at different stages of maturation, pregnancy and lactation: Histology & Anatomy	PLO5
3	Values:	
3.1	Adhere to the attendance policy.	
3.2	Maintain professional conduct with colleagues, faculty and staff.	

C. Course Content

No	List of Topics	Contact Hours
1	Pelvic walls: Organization	1
2	Male reproductive system: Gross structure	1
3	Male reproductive system: Microscopic structure	1
4	Introduction to Sperm Defects	1
5	Male reproductive system: Hormonal control - I	1
6	Male reproductive system: Hormonal control - II	1
7	Sexual arousal and ejaculation: Hormonal control	1
8	LAB: Pelvis: Bone & Muscles	2
9	LAB: Radiology	2
10	PBL: Azoospermia: The Vanishing Sperm/Male Fertility-Clinical	4
11	Female reproductive system: Hormonal control - I	1
12	Female reproductive system: Hormonal control - II	1
13	Menstrual cycle: Hormonal control - I	1
14	Menstrual cycle: Hormonal control - II	1
15	Hormonal control of pregnancy	1

16	Male reproductive system: Development	1
17	Female reproductive system: Gross structure	1
18	Female reproductive system: Microscopic structure	1
19	Principles of Assisted Reproductive Technology	1
20	LAB: Peritoneal folds, uterine support & applied	2
21	LAB: Female reproductive organs/Histology female reproductive system	2
22	PBL: Female Fertility/ Pregnancy	4
23	Parturition: Hormonal control	1
24	Lactation: Role of prolactin and other hormones	1
25	Breast & placenta: Gross & microscopic structure - I	1
26	Breast & placenta: Gross & microscopic structure - II	1
27	Perineum: General Organization	1
28	External genitalia: Gender differences	1
29	Female reproductive system: Development	1
30	LAB: Perineum & Cadaver	2
31	LAB: Histology breast & placenta	2
Total		43

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Explain the developmental origins of gonads and sex determination: Embryology	Lectures, Labs, PBLs	Formative and summative assessments
1.2	Describe the structural organization of the male reproductive system, erection and ejaculation: Male Anatomy & Physiology	Lectures, Labs, PBLs	Formative and summative assessments
1.3	Explain the process of spermatogenesis and the hypothalamo-pituitary-gonadal axis: Male Physiology	Lectures, Labs, PBLs	Formative and summative assessments
1.4	Explain the process of oogenesis and the hypothalamo-pituitary-gonadal axis: Female Physiology	Lectures, Labs, PBLs	Formative and summative assessments
1.5	Describe the role of female hormones during the menstrual cycle and pregnancy until lactation: Female Physiology & Histology	Lectures, Labs, PBLs	Formative and summative assessments
2.0	Skills		
2.1	Identify the gross features of various pelvic organs of female reproductive system: Anatomy	Lectures, Labs, PBLs	Formative and summative assessments
2.2	Identify & describe the gross and microscopic features of ovary and uterus at different stages of maturation, menstrual cycle and pregnancy: Histology & Anatomy	Lectures, Labs, PBLs	Formative and summative assessments

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.3	Identify & describe the gross and microscopic features of breast at different stages of maturation, pregnancy and lactation: Histology & Anatomy	Lectures, Labs, PBLs	Formative and summative assessments
3.0	Values		
3.1	Adhere to the attendance policy.		Continuous assessment
3.2	Maintain professional conduct with colleagues, faculty and staff.		Continuous assessment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	PBL	1,2	5%
2	Final Exam	3	95%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

The CoM program established its own mentorship program that employs all full-time faculty as mentors. Through this program, every medical student in the program is assigned a mentor at the beginning of their first semester of studies. The program has a broad scope covering academic advising and counseling. The mentors handle all aspects related to academic advising, including academic planning, academic performance review, and advice on course drop or withdrawal, study skills, and time management.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ol style="list-style-type: none"> 1. Clinical Anatomy by Regions-Richard Snell 2. Histology: A Text and Atlas by MH Ross & W Pawlina: 6th edition 3. Textbook of Medical Physiology, Guyton & Hall, Thirteenth Edition, Published by Saunders Elsevier, 2016. ISBN: 978-1-4557-7005-2 (13th Edition) 4. Biochemistry By Pamella et al (Lippincott) 5. Langman's Medical Embryology-Sadler, Lippincott Williams and Wilkins 6. Linda S Costanzo, 4th Ed. Human Physiology.
Essential References Materials	
Electronic Materials	PowerPoint presentations uploaded on Alfaisal eLearning portal

Other Learning Materials	
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2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms, Examination Facilities
Technology Resources (AV, data show, Smart Board, software, etc.)	AV (Audio-Visual), Smartboard, Moodle (E-learning Management)
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course and Faculty Evaluation Survey	Students	Survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	