



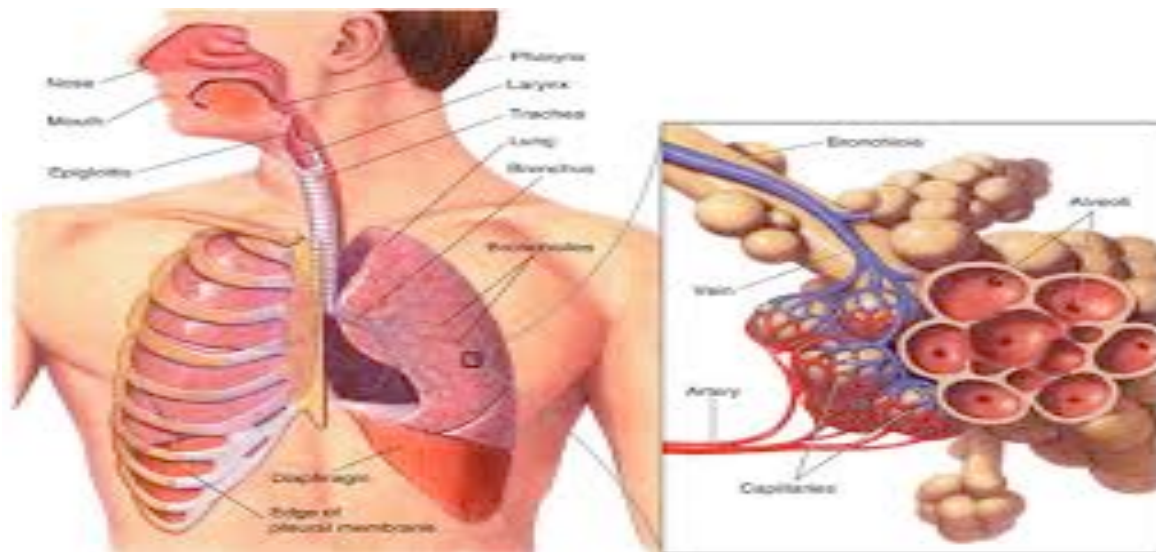
**Collage of Medicine
Physiology Department**

PSL 521 COURSE CURRICULUM

Master Students (MSc)

HUMAN RESPIRATORY PHYSIOLOGY

1441H (2020-2021)



LIST OF RESOURCE PERSONS

- Dr. Abdulrehman Al-Howaikan (**Chairman**)
- Dr. Hana Al-Zamil (**CO-Chairman**)
- Dr. Khalid Al REGAI (**Head of the PG committee**)
- Dr. Aida Korish (**Course Cordinator**)

INSTRUCTORS	FACILITATORS
<ul style="list-style-type: none"> • Dr.Abdelrahman Al Howikan (amalhowikan@gmail.com) • Prof.Sultan Meo (smeo@ksu.edu.sa) • Dr. Aida Korish (iaidakorish@yahoo.com) • Dr. Thamir Alkhelaiwi (tkhlaiwi@gmail.com) • Dr. Mohamed Abdelraheim (mabelraheim@ksu.edu.sa) 	<ul style="list-style-type: none"> • Dr. Ola Mawlana (olamawlana@gmail.com)
RECOMMENDED TEXTBOOK	REFERENCE BOOKS
<ul style="list-style-type: none"> ➤ Textbook of Human Physiology By: Guyton and Hall 13th Edition 	<ul style="list-style-type: none"> ➤ Human Physiology By: Linda S. Costanzo 6th Edition

ADVICE TO STUDENTS

This booklet contains the whole semester program including the integrated course schedule and lecture contents for the academic year 1442 (2020-2021). You are advised to keep this booklet always with you for reference.

Try to practice the following methodical approach:

1. Read the topic in the recommended textbook before coming to class.
2. Regularly attend all classes and regularly assess yourself whether you are running along with the program or lagging behind.
3. You can contact any of the teaching staff or course organizer, if you have questions or difficulties in the course, or you would like additional information.
4. You are advised not to depend on handouts.
5. Any student who is absent for more than 25% of the lectures will not be allowed for the final term exam.

6-Students will be given assignment and presentation topics and will be asked to present them either as a report or as seminars.

(A) LECTURES

Days	Time	Venue
Sunday	9:00 - 12:00 Am	Lectures: online meeting Practical: Physiology Department College of Medicine female campus

(B) EXAMINATIONS

Name of Exam	Marks (Total 100)	Week
Midterm exams	30	7
Presentations & Assignments	20	13
Final Practical Exam	10	14
Final Written Examination	40	15
Total marks	100	

Methods of Assessment:

- 1- Written exams including short essay and MCQs.
- 2- Seminar presentation.
- 3- Assignment.
- 4- Practical Exam.

Specific objectives:

By the end of the course students should be able to:

- 1- Illustrate the functional organization of the respiratory system.
- 2- Discuss the Mechanics of breathing.
- 3- Explain the details of the pulmonary ventilation.
- 4- Outline the basic concepts related to Gas Transfer.
- 5- Describe the forms of Oxygen and Carbon Dioxide Transport.
- 6- Interpret the causes of Hypoxia and cyanosis.
- 7- Calculate the V/Q ratio and justify its clinical importance.
- 8- Discuss the regulation of breathing.
- 9- Summarize the effects of low and high gas pressure on the body.
- 10- Identify the effects of exercise on the respiratory system.

The detailed objectives of each lecture will be stated in the lecture power point presentation presented by the teaching staffs.

DETAILED PSL 521 COURSE CONTENTS

WEEK 1 Registration Week

WEEK 2

Dr.Aida Korish

Date	Day	Time	Lecture No./ Practical	Topic
6/9/2020 18/1/1442	Sunday	9:00-9:30am		Introduction to Course
6/9/2020 18/1/1442	Sunday	9:30-11:00 am	1	Functional organization of the respiratory system

WEEK 3

Dr.-----

Date	Day	Time	Lecture No./ Practical	Topic
13/9/2020 25/1/1442	Sunday	9:00-10:00	1	Mechanics of breathing
13/9/2020 25/1/1442	Sunday	10:15-11:30	1	Respiratory ventilation

WEEK 4**Dr.Thamir Alkhlawi**

Date	Day	Time	Lecture No./ Practical	Topic
20/9/2020 3/2/1442	Sunday	9:00-10:00	1	Gas Exchange and Transfer
20/9/2020 3/2/1442	Sunday	10:15-11:30	1	Oxygen and Carbon dioxide Transport

WEEK 5**Dr.Ola Mawlana**

Date	Day	Time	Lecture No./ Practical	Topic
27/9/2020 10/2/1442	Sunday	9:00-10:30	1	<u>Practical Session</u> Pulmonary function tests
27/9/2020 10/2/1442	Sunday	10:45-12:00	1	<u>Practical Session</u> Dynamic spirometry

WEEK 6**Dr.Thamir Alkhelaiwi**

Date	Day	Time	Lecture No./ Practical	Topic
04/10/2020 17/2/1442	Sunday	9:00-10:00	1	Hypoxia - cyanosis
04/10/2020 17/2/1442	Sunday	10:15-11:15	1	Ventilation perfusion ratio

WEEK 7**Dr.Aida Korish**

Date	Day	Time	
11/10/2020 24/2/1442	Sunday	10:00-11:00	First continuous assessment

WEEK 8**Dr.Mohamed Abdelraheim**

Date	Day	Time	Lecture No./ Practical	Topic
18/10/2020 1/3/1442	Sunday	9:00-10:30	1	Control of Breathing

WEEK 9**Dr.Aida Korish**

Date	Day	Time	Lecture No./ Practical	Topic
25/10/2020 8/3/1442	Sunday	9:00-10:30	1	Effects of low and high gas pressure on the body
25/10/2020 8/3/1442	Sunday	Assignment First draft submission		

WEEK 10**Dr.Abdulrahman Alhowikan**

Date	Day	Time	Lecture No./ Practical	Topic
1/11/2020 15/3/1442	Sunday	9:00-10:00	1	Effects of exercise on the respiratory system

WEEK 11

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Date	Consolidation week
8/11/2020 22/3/1442	

WEEK 12

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Date	Consolidation week
15/11/2020 29/3/1442	

WEEK 13

Dr.Aida Korish

Date	Day	Time	Topic
22/11/2020 7/4/1442	Sunday	10:00-11:00	Student Presentation
22/11/2020 7/4/1442	Sunday		Assignment Submission

WEEK 14**Dr.Ola Mawlana**

Date	Day	Time	Topic
29/11/2020 14/4/1442	Sunday	10:00-11:00	Final Practical Exam

WEEK 15**Dr. Aida Korish**

Date	Day	Time	Topic
6/12/2020 21/4/1442	Sunday	10:00-11:00	Final Theoretical Exam