Course Specifications

Course Title:	**Medical Biology-2**
Course Code:	**370211-4**
Program:	**Bachelor's in Clinical Laboratory Sciences (Level-7)**
Department:	**Clinical Laboratory Sciences**
College:	**Applied Medical Sciences**
Institution:	**Taif University**

Table of Contents

A. Course Identification

1. Credit hours: **4 hours**
2. Course type **a.** University ☐ College ☐ Department ☑ Others ☐ **b.** Required ☑ Elective ☐
3. Level/year at which this course is offered: **Level 2/ 1st Year**
4. Pre-requisites for this course (if any)**:** **Medical Biology-1 (370111-4)**
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**	5 hours /week= 75 hours/semester	100%
2	**Blended**	None	0%
3	**E-learning**	None	0%
4	**Correspondence**	None	0%
5	**Other**	None	0%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	45 hours
2	**Laboratory/Studio**	30 hours
3	**Tutorial**	None
4	**Others** (specify)	None
	Total	75 hours
Other Learning Hours*		
1	**Study**	54 hours
2	**Assignments**	None
3	**Library**	None
4	**Projects/Research Essays/Theses**	None
5	**Others**(specify)	None
	Total	54 hours

***The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The Medical Biology (2) course provides an overview of terms, structure and function of body systems.

2. Course Main Objective

This course provides an overview of the structure and function of different human body systems. The main goal of this course is to help the students to understand the anatomy and physiology of body systems such as respiratory, urinary, skeletal etc, and relate how the activities of the systems are integrated to form a functional whole.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge:**	
1.1	Define the structure and function of different human body systems.	K1
1.2	Define the basic anatomy and physiology of body systems, and relate how the activities of the systems are integrated to form a functional whole.	K1
1.3	Identify the basic types of blood cells and relate with their normal values.	K1
2	**Skills :**	
2.1	Recognize the blood components and blood groups on micrograph pictures.	S1
3	**Competence:**	
	None	

C (a) Course Content(Theory)

No	List of Topics Physiology part	Contact Hours	List of Topics Anatomy part	Contact Hours
1	Introduction & Blood	4	Introduction	1
2	Cardio Vascular System 1	2	Bone, joints, skin, fascia & muscles.	1
3	Cardio Vascular System (CVS) 2	2	CVS	2
4	Respiratory system	2	Respiratory	1
5	Gastro Intestinal Tract (GIT)	2	GIT	2
6	Urinary system	4	Urinary	2
7	Nervous system 1	2	Lymphatic system	1
8	Nervous system 2	2	Nervous system 1	1
9	Male Reproduction system	2	Nervous system 2	1
10	Female Reproduction system	2	Male genital system	1
11	Endocrinology system	4	Female genital system	1
12	Muscle & nerve	2	Revision	1
	Total	45		

(b) Course Content (Practical)

No	List of Topics	Contact Hours
1	• **Introduction to Organization of the Human Body**	**4**
2	• Major organ system of the human body	**3**
3	• Introduction to Blood components	2
4	• Identification and calculation of Red blood cells.	**4**
5	• Identification and calculation of white blood cells (WBCs).	**3**
6	• Identification of different types of WBCs	**2**
7	• Blood grouping	**2**
8	• Circulatory system	**2**
9	• Skeletal system	**2**
10	• Urinary system	2
11	• Digestive system	**2**
12	• Nervous system	**2**
Total		30

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**		
1.1	Define the structure and function of different human body systems.	• Lectures	• Exams
1.2	Define the basic anatomy and physiology of body systems, and relate how the activities of the systems are integrated to form a functional whole.	• Lectures	• Exams
1.3	Identify the basic types of blood cells and relate with their normal values.	• Lectures	• Exams
2.0	**Skills**		
2.1	Recognize the blood components and blood groups on micrograph pictures.	• Lectures • Practical sessions	• Exams
3.0	**Competence**		
3.1	**None**		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-Term Exam	8th Week	20%
2	Activity (online quizzes)	Throughout the semester	10%
3	Final Practical Exam	16th Week	20%
4	Final Exam	17th/18th Week	50%
5	**Total**		**100%**

***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 :

- Course instructors are available for individual consultation in their free time. They are usually full-time permanent members present on-campus from 8:00 am to 2:30 pm on all working days. Appointments can be made in person with the instructor through email etc. Days and time availability of each instructor are posted on their doors. Course instructors provide a range of academic and course management advice including course planning and its progression.
- Each student at the department of Clinical Laboratory Sciences has an academic adviser who is available for individual consultation and guidance. Appointments can be made in person with the instructor through email etc. Days and time availability of each adviser are posted on their doors. The academic adviser can provide support with time management, exam preparation, clarification of subject requirements, feedback on performance and dealing with personal issues as well.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	1- Principles of anatomy and physiology, G. J. Tortora & B. H. Derrickson 2- Cell biology and histology, 7th edition, Gartner, Hiatt
Essential References Materials	N/A
Electronic Materials	Websites, Search engines (Saudi Digital Library, PubMed, Google Scholar)
Other Learning Materials	Saudi digital library.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms and Laboratories
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Blackboard and A/V
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**NA**

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student's feedback on effectiveness of teaching and quality of courses.	Students	Indirect: Questionnaire Survey at the end of each semester.
Alignment map of course ILOs with that of program ILOs.	Development and accreditation committee	Direct: Student's Performance.
Availability of learning resources, facilities and equipments related to each course.	Students and faculty	Indirect: Questionnaire Survey at the end of each semester.
Evaluation of teaching	Peer evaluators	Direct: Peer evaluation
Standard of student achievement	Examination Committee	Direct: Students grades
Periodical review of course effectiveness and planning for its improvement.	Teaching staff/ Development and accreditation committee	Indirect: Review by Department Committee

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes,Quality oflearning resources, etc.)
Evaluators (Students,Faculty, Program Leaders,Peer Reviewer, Others (specify)
Assessment Methods(Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	Meeting No.10
Date	10-9-1440