



Course Specification

— (Bachelor)

Course Title: **Biomedical Sciences (1)**

Course Code: **MDS26111**

Program: **Health track**

Department: **Basic Medical Sciences**

College: **Applied Medical Sciences**

Institution: **University of Bisha**

Version: **7**

Last Revision Date: **24 August 2023**





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A. General information about the course:

1. Course Identification

1. Credit hours: 4 (3+1)

2. Course type

- A. University College Department Track Others
 B. Required Elective

3. Level/year at which this course is offered: (1st level / 1st year)

4. Course general Description:

The course introduces the students to the basics of human body structure and functions including body's fluids, cell structure, and functions, types of the body tissues and organ and systems of the human body.

5. Pre-requirements for this course (if any):

NA

6. Pre-requirements for this course (if any):

NA

7. Course Main Objective(s):

- Describe the basic macro- and microstructure of the human body organs and systems
- Describe the basic functions of the human body organs and systems

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	41	55%
2	E-learning	4	5%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4	Practical	30	40%
5	Distance learning		



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	41
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify) E-learning	4
6.	Self-learning	75
Total		150

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define terminology of human body structure and functions.	K1	Lectures, Group discussion and e-learning	Written exam, Blackboard Assignments, Seminars
1.2	Demonstrate the human body organization, cell structure and function and organs and systems of the human body.	K2		
1.3	Explain the relation between the organs and systems of the human body.	K2		
1.4	Relate the structure of the human body to its function.	K2		
2.0	Skills			
2.1	Properly use a light microscope to identify tissue types using histological slides	S1	Lab demonstration	Practical exam



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.2	Use software to study the macrostructure and functions of human body organs and systems	S2		
2.3	Apply safety measures when dealing with human bodies and lab equipment and solutions.	S4		
3.0	Values, autonomy, and responsibility			
3.1	Exhibit a sense of commitment toward ethical regulations when dealing with human body and specimens.	V1	Practical and seminars	In-class evaluation , In-lab evaluation
3.2	Demonstrate teamwork spirit	V3		

C. Course Content

No	List of Topics- Theory	Contact Hours
	Them 1: Cell structure and function	
1	Animal cell and the cell theory, Cell size, Cell membrane structure and function	6
2	Cellular organization, The cell organelles	3
	Theme 3: Types of tissue	
3.	Epithelial Tissue, Connective Tissue	6
4.	Muscular Tissue, Nervous Tissue	3
	Theme 3: Body fluids	
5.	Body Membranes, Homeostasis, Principle of water movement,	6
6.	Diffusion and Osmosis, Bulk flow, Selective permeability, Passive transport and Active transport	3
	Theme 4: Organs and systems	
7.	Different human body regions, planes, and position, Organization and regulation of body systems	6
8.	Digestive System and Nutrition, Respiratory System	6
9.	Heart and Blood Vessels & Blood cells, Urinary System, Reproductive System and life cycle	3
	The skeleton & Muscular System, Nervous System	3
	Total theory	45



No	List of Topics- Practical	Contact Hours
1	Microscope , cell organelles	4
2	Connective Tissue	2
3	Epithelial Tissue	2
4	Nervous Tissue and Muscular Tissue	4
5	Digestive System	2
6	Respiratory System	2
7	Heart and Blood Vessels & Blood cells	4
8	Urinary System & life cycle and Reproductive System	4
9	The Skeleton and Muscular System	4
10	Nervous System	2
Total practical		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments and E-Learning activities	All through	10 marks
2.	Midterm exam	8 th	20marks
3.	Final practical exam	End of semester	20 marks
4.	Final theory exam	End of semester	50 marks

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	<ol style="list-style-type: none"> 1. Sylvia Mader and Michael Windelspecht, Human Biology 14th Edition. ISBN-13: 978-0073525464, ISBN-10: 0073525464 2. Sylvia Mader , Lab Manual for Human Biology 13th Edition. ISBN-13: 978-0077596026, ISBN-10: 0077596021 3. Daniel Chiras, Human Biology 7th. Ed.
Supportive References	1. Sylvia Mader and Michael Windelspecht, Human Biology 14th Edition. ISBN-13: 978-0073525464, ISBN-10: 0073525464
Electronic Materials	<ol style="list-style-type: none"> 1. https://onlinemeded.org/ 2. Learning uploaded on the blackboard
Other Learning Materials	Saudi electronic library

2. Required Facilities and equipment





Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	1. 2 Class rooms 30 students each 2. Small group discussion rooms 5 3. DR (anatomy) 4. Museum (anatomy) 5. Physiology lab
Technology equipment (projector, smart board, software)	1. Smart board 2. Audiovisual aids 3. High speed internet 4. Blackboard
Other equipment (depending on the nature of the specialty)	1. Light Microscopes 2. Complete set of histological slides 3. X-ray Boxes

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students, Faculty staff members, Program Leaders, Peer Reviewers	Direct / Indirect
Effectiveness of Students assessment	Faculty staff members, Program Leaders, Peer Reviewers	Direct / Indirect
Quality of learning resources	Students, Faculty, Program Leaders, Peer Reviewer.	Direct / Indirect
The extent to which CLOs have been achieved	Faculty and program quality unit, Program Leaders, Peer Reviewer.	Direct / Indirect
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL
REFERENCE NO.	1-1444/1445
DATE	05-02-1445

