



10. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1. Permanent stained tissue slides and body fluid smears .

A2. Preparing all needed chemical solution .

A3.

A4.

A5.

A6 .

B. Subject-specific skills

B1. Fix and preserve tissue specimen

B2.

B3.

Teaching and Learning Methods

Laboratories and scientific visits and summer training

Assessment methods

Oral + written + quarterly exams + final

C. Thinking Skills

C1. Lectures

C2. practical skills within the laboratory

C3.

C4.

Teaching and Learning Methods

Laboratories and scientific visits and summer training

Assessment methods

Oral + written + quarterly exams + final

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. students can prepare permanent slides for different body organs

D2. permanent stained tissue slide and body fluid smears

D3. preparing all needed chemical solution

D4. Fix and preserve tissue specimen

## 11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	5	Technical diploma	Definition of some terminology	Data show	Examination, oral tests
2	4+16(practical)	=	Sample collection	Data show	Examination, oral tests
3,4	4+16(practical)	=	Steps of preparing tissue for study	Data show	Examination, oral tests
5,6	4+16(practical)	=	Types of fixative	Data show	Examination, oral tests
7	4+16(practical)	=	washing	Data show	Examination, oral tests
8	4+16(practical)	=	dehydration	Data show	Examination, oral tests
9	4+16(practical)	=	clearing	Data show	Examination, oral tests
10	4+16(practical)	=	Infiltration (impregnation)	Data show	Examination, oral tests
11,12	4+16(practical)	=	Blocking, trimming & sectioning	Data show	Examination, oral tests
13,14		=	Examination of mid year		
15,16		=	Holiday for mid year		
17,18	4+16(practical)	=	Staining, purpose, classification	Data show	Examination, oral tests
19	4+16(practical)	=	Staining methods, solvent, storage	Data show	Examination, oral tests
20	4+16(practical)	=	Staining Mordant	Data show	Examination, oral tests
21	4+16(practical)	=	Routine stain	Data show	Examination, oral tests
22	4+16(practical)	=	Special stains	Data show	Examination, oral tests
23,24	4+16(practical)	=	Types of stains,preparation	Data show	Examination, oral tests
25	4+16(practical)	=	Stains solvent,storage,choose stains	Data show	Examination, oral tests
26	4+16(practical)	=	Decalcification	Data show	Examination, oral tests

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28,27	4+16(practical)	=	Examination of second term	Data show	Examination, oral tests
29	4+16(practical)	=	Tissue slide	Data show	Examination, oral tests
30			Final examination		

## 12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Text book
Special requirements (include for example workshops, periodicals, IT software, websites)	Website
Community-based facilities (include for example, guest Lectures , internship , field studies)	

## 13. Admissions

Pre-requisites	
Minimum number of students	
Maximum number of students	