## **Subject Description Form**

Subject Code	ABCT4117
Subject Title	Advanced Anatomical Pathology
Credit Value	3
Level	3
Pre-requisite	Anatomical Pathology (ABCT3110)
Objectives	<ol> <li>Through lectures and practical sessions:</li> <li>to provide students an understanding of the knowledge of the advanced diagnostic technologies and their applications in Anatomical Pathology laboratories;</li> <li>to equip students to perform appropriate cytological sample preparation and staining.</li> </ol>
Intended Learning Outcomes	<ul> <li>Upon completion of the subject, students will be able to:</li> <li>a. know the clinical practice in special tissue handling.</li> <li>b. understand the principles of various advanced diagnostic technologies in histology and cytology.</li> <li>c. perform cytological sample preparation, staining and microscopic examination with appropriate skills.</li> <li>d. evaluate histopathological and cytological test results for diagnosis of disease.</li> </ul>
Subject Synopsis/ Indicative Syllabus	<ul> <li>Special tissue handling:</li> <li>Various types of biopsy sample handling and processing</li> <li>Histopathology:</li> <li>Basic concepts in identification of abnormal cells and pathological features in tumours and malignancy</li> <li>Cytology:</li> <li>Sample collection and processing</li> <li>Cytological smear preparation and staining</li> <li>Cytological features of normal cellular constituents, common changes</li> </ul>
	<ul> <li>Cytological features of normal centular constituents, common changes shown in cells in relation to disease and associated malignancy</li> <li>Advanced laboratory technologies in Anatomical Pathology:         <ul> <li>Immunohistochemistry (IHC) and immunocytochemistry (ICC)</li> <li>Molecular diagnosis in Anatomical Pathology</li> <li>Electron microscopy</li> </ul> </li> </ul>

Teaching/Learning Methodology	Lecture: to introduce and re Practical session: to perfor Tutorial: to relate theories	m laboratory te	ests and	result eva	luation	epts			
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks Percen weight		Intended subject learning outcomes to be assessed			_			
Outcomes	1. Assignments	30%	<b>✓</b>		✓	✓			
	2. Quizzes / Tests	30%	✓	✓	✓	✓			
	3. Examination	40%	✓	✓	✓	✓			
	Total	100%							
	Assignments will assess students' understanding in special histosample and cytological sample handling.								
	Quizzes and tests will assess students' ability to evaluate histopathological and cytological staining results; the understanding of basic concepts of advanced diagnostic techniques in Anatomical Pathology.								
	Examination combines written questions and practical assessment component. It will assess students' practical competence; knowledge application; and clinical result analysis.								
	Students are required to attend at least 75% of scheduled sessions for subjects. Failure to fulfill the attendance requirement may result in a student being unable to attain a passing grade in this subject.								
Student Study	Class contact:								
Effort Expected	<ul> <li>Lectures</li> </ul>		24 Hrs.						
	Tutorials / Laboratory I		15 Hrs.						
	Other student study effort:								
	<ul> <li>Self and Guided Study</li> </ul>				70 Hrs.				
	Assignments				20 Hrs.				
	Total student study effort				129 Hrs.				
Reading List and References	Cellular Pathology: an introduction to techniques and applications. (2015) 3 <sup>rd</sup> Ed. Cook J, Warren PJ. Scion Publishing Ltd. Oxfordshire UK.								
	Theory and Practice of Histological Technique. (2013) Suvarna KS, Layton C, Bancroft JD. 7 <sup>th</sup> Ed. Churchill Livingstone: Edinburgh.								

Practical	Principles	of	Cytopathology	Revised.	(2007)	Demay	RM.
American Society for Clinical Pathology Press: Washington.							