

a) Course Code, name and credits:
BMI 2203 / Imaging Procedures II / 4
b) Description: General description of the course, include mode of delivery.
The student uses radiographic skills and knowledge already taught and practiced, to develop skills in the performance of additional and advanced examination of the skeleton, and contrast studies. The student will learn skills needed to care for and radiograph pediatric, geriatric and acutely ill patients. Functioning in the operating theatre, ICU and emergency departments will also be covered. Delivery Mode: Classroom sessions
c) Reasons for introducing course:
If the course is replacing an existing one, state the existing course code, name and credits, the degree(s) for which the course is a requirement and the reason for the replacement. The old course outline must be attached.
If the course is a stand alone course, a statement on the demand for the course must be made.
Course demand is based on curriculum
d) Are there similar courses in the Faculty or University? If so give course codes, names and credits, and explain why they could not be used.
Nil
e) Co-requisites and Pre-requisites:
Program basic entrance requirements
f) Learning outcomes: State what the student will be able to do on the successful completion of the course. (See Appendix 3 Page 11 for guidelines)
The student will be able to:
<ul style="list-style-type: none"> • Perform advanced examinations of the skeleton, including additional examinations of the upper and lower extremities, shoulder and pelvic girdles, arthrography and spine. • Perform advanced examinations of the skull, facial bones, sinuses, dental and orthodontic examinations • Perform accurately and effectively any unusual and additional radiographic projections and views as may be requested in the clinical setting. • Prepare and position patients for contrast media studies, specifically, urinary, biliary and gastro intestinal studies and special studies of the nervous system • Identify projections and views required for each type of study • Identify the type, controls, contra indications, emergency measures used in the use and administration of

contrast media

- Communicate effectively with patients undergoing these examinations
- Practice radiography safely and effectively in all areas, including accident and emergency, operating theatre and ICU
- Apply radiation safety procedures
- Critically analyze resultant radiographs and suggest methods to improve the image or the need for additional radiographs
- Manage time and work deadlines
- Apply analytical criteria effectively to the application of radiographic technology
- Work independently and as a team member

g) Contact Hours:

	Contact hrs per wk*	Class size	Mode of delivery
Lectures	3	25	Face to face/ online sessions
Tutorials	0	25	Face to face
Labs	3	25	Face to face

h) Method of Evaluation/Assessment:

(i) For courses with a final examination of at least 50%.

Course work: 2 tests%, 8 labs%, 2 assignments%, etc

Final exam: 3hours,%

(ii) For continuously assessed courses.

Test 1%, etc, Assignment%, Long paper%, etc.

Course work:	2 tests 15% each, 2 assignments 5% each
Final exam:	3 hours, 60%

i) Requirements to pass course: e.g. Must pass Course Work and Exam, etc. to pass Course.

Must pass Course Work and Final Exam to pass Course

j) Grading System:

A	80-100 %
B	70-79 %
C	60-69 %

D	55-59%
F	0-54%
k) Course Content:	
Week	Topics
1	Procedure for examination of skull: (gross injury routine) Modification in case of pathology.
2	Procedure for examination of paranasal sinuses. Modification to confirm injury involving sinuses. Nasal bones, orbits, Foreign body in the eye.
3	Optic foramina , internal auditory meatus & mastoids
4	Procedure for examination of heart.
5	Procedure to demonstrate calculi in salivary glands/ducts.
6	Principles involved in examination of Mediastinum.
7	Principles in examination of lungs. Procedure for examination of all aspects of lungs.
8	Modifications for gross pathology.
9	Procedure for examination of maxilla, zygoma, nasal bones; mandible. Modification for pathology.
10	Procedure for examination of optic foramina; internal auditory meatus; mastoids. Mandible, OPG, orthodontic cephalogram
11	Teeth: Principles involved in examination of teeth. Procedure for intra-oral examinations. Modification for examination of children's teeth. Dental
12	Procedures to demonstrate organs of abdomen. Procedures to demonstrate foreign body in abdomen.
13	Procedures for examination following injury to spleen, kidneys, bladder. Modification for pathology of kidneys; alimentary tract; peritoneum.
14	Review
15	Final Examination

l) Book Lists/Recommended Reading: List text books, journals, internet resources using the APA format (see Appendix 4, Page 12). Use an asterisk at the beginning of each reference to indicate texts/journals which are available in the University Library.

Core texts and journals

Additional reading material

Booklist

- Ballinger, P., Frank, E.D. (2003). *Merrill's Atlas of Radiographic Positions and Radiological Procedures*. 10th Edition. Mosby Year-Book.
- Eisenberg, R., Johnson, M. (2003). *Comprehensive Radiographic Pathology*. 3rd Edition. Mosby-Year Book.
- Bontrager, K. (1997). *Textbook of Radiographic Positioning and Related Anatomy*. 4th Edition. Mosby-Year Book.
- Greathouse, J. (1998). *Delmar's Radiographic Positioning and Procedures*, Vol. I, Delmar.
- Chapman, S., Nakielny, R. (1993). *A Guide to Radiological Procedures*. 4th Edition. BailliereTindall.
- Ehrlich, R., McCloskey, E., Daly J. (1999). *Patient Care in Radiography*. 5th Edition. Mosby-Year Book.

m) Staff requirements:

Lecturer for classroom sessions

n) Budget: The details given below are to be provided for a stand-alone course. Where the course is replacing one of equivalent course requirements, contact hours and credits, and one which is part of an existing degree programme, the budgetary details are not required; a statement with justification can be completed.