

DEPARTMENT OF RADIODIAGNOSIS & IMAGING
7th SEMESTER UG LESSON PLAN 2017

Sr. No.	Date	Day	Time	Lecture Topic	Faculty
1.	07/07/2017	Friday	09.00 to 10.00	Introduction to Radiology: (a) Discovery of X-Rays (b) X-Ray Machines (c) Image Intensifier (d) Processing of films (e) Applications system wise (f) Other modalities : (i) Ultrasound incl Doppler (ii) CT (iii) MRI (iv) Scintigraphy incl PET/SPECT Display of representative images	Dr. S. G. Gandage
2.	14/07/2017	Friday	09.00 to 10.00	Radiology Hazards & Protective Measures: (a) Definition of electromagnetic and ionizing radiation (b) Radiation spectrum (c) Sources and levels of radiation (d) Safety standards for radiation - General public and radiation workers (e) III – effects of radiation - (i) Acute radiation sick - (ii) Effects of prolonged exposure (f) Protection devices - (i) General - (ii) Personal Display of Protective apparel and TLD badge.	Dr. KNS Chaitanya

3.	21/07/2017	Friday	09.00 to 10.00	Respiratory system Part I: (a) Methods of investigations (b) Diaphragm (c) Pleura (d) Mediastinum (e) Bony thorax and soft tissue Display of representative images of pathologies.	Dr. Vishva Chauhan
4.	28/07/2017	Friday	09.00 to 10.00	Respiratory system Part II: (a) Pulmonary, tuberculosis (b) Branchogenic Carcinoma (c) Solitary and multiple pulmonary nodules (d) Interstitial diseases (e) Pulmonary consolidation collapse and Pleural effusion Display of representative images of pathologies.	Dr. V. M. Kulkarni
5.	04/08/2017	Friday	09.00 to 10.00	Cardio - Vascular System: (a) Methods of investigations (b) Congenital heart diseases: (i) ASD (ii) VSD (iii) TOF (iv) PDA (v) Coarctation (c) Acquired heart diseases: (i) RHD – MS & MI (ii) Cardiomyopathy (iii) Pericardial diseases (iv) Aneurysm Display of representative images	Dr. S. M. Khaladkar
6.	11/08/2017	Friday	09.00 to 10.00	Gastro – Intestinal Tract-Part I (a) Methods of investigations (b) Oesophagus: (i) Carcinoma ii) Achlasia (c) Stomach: (i) Ulcer (ii) Neoplasms (iii) Pyloric Stenosis (d) Duodenum small intestine (i) Ulcer	Dr. Ameya Kulkarni

				<ul style="list-style-type: none"> (ii) Nalrotation (iii) Tuberculosis –crohn’s (iv) Mlabsorption (e) Acute abdomen: (i) Perforation (ii) Ileus (iii) Obstruction Display of representative images 	
7.	18/08/2017	Friday	09.00 to 10.00	<p>Gastro – Intestinal Tract-Part II</p> <ul style="list-style-type: none"> (a) Large intestine: <ul style="list-style-type: none"> (i) Ulcerative colitis (ii) Neoplasm (iii) Hirschsprug’s (iv) Appendicitis (b) Liver, Gall bladder: <ul style="list-style-type: none"> (i) Abscess (ii) Gall stones (iii) Cholecystitis (iv) Neoplasm (v) Cirrhosis (c) Pancreas: <ul style="list-style-type: none"> (i) Pancreatitis (ii) Neoplasm (d) Spleen <p>Display of representative images.</p>	Dr. Shivani Rathore
8.	01/09/2017	Friday	09.00 to 10.00	<p>Genito- Urinary System:</p> <ul style="list-style-type: none"> (a) Methods of investigations (b) Congenital anomalies (c) Genito – urinary tuberculosis (d) Urinary calculi (e) Renal neoplasms (f) Urinary bladder neoplasms (g) Prostatic enlargement (h) Scrotal pathologies <p>Display of representative images.</p>	Dr. Tushar Kalekar
9.	08/09/2017	Friday	09.00 to 10.00	<p>Bones and Joints:</p> <ul style="list-style-type: none"> (a) Methods of investigations (b) Congenital lesions: <ul style="list-style-type: none"> (i) CDH (ii) Perthe’s 	Dr. PratikshaYadav

				<ul style="list-style-type: none"> (iii) Spina bifida (b) Inflammatory/infective lesions: <ul style="list-style-type: none"> (i) Osteomyelitis (ii) Fungal diseases (iii) Arthritides (iv) Rheumatoid arthritis (v) Ankylosing spondylitis (d) Trauma: <ul style="list-style-type: none"> (i) Colles# (ii) #Neck Femur (iii) #Vertebra (iv) Pelvic# (v) Head injury (e) Neoplasms: (i) Malignant <p>Display of representative images.</p>	
10.	15/09/2017	Friday	09.00 to 10.00	<p>Special procedures:</p> <ul style="list-style-type: none"> (a) CNS (b) Orbits, PNS (c) Vascular (d) Respiratory (e) GI System (f) GU System (g) Musculoskeletal (h) CVS <p>Display of representative images</p>	Dr. R. S. Kuber
11.	22/09/2017	Friday	09.00 to 10.00	<p>Ultrasonography and Doppler</p> <ul style="list-style-type: none"> (a) Definition (b) Equipment: (i) A Scan (c) Types: (i) B Scan <ul style="list-style-type: none"> (ii) Dual mode (iii) Doppler (iv) Color Doppler (d) Ultrasonography: <ul style="list-style-type: none"> (i) Neck (ii) Extremities (iii) Hepato biliary, pancreas (iv) Chest (v) GU Tract (Male) (vi) Gynecology (vii) Obstetrics (viii) Small parts. 	Dr. Kiran Naiknaware / Dr. Harshwardhan Shrotri

				Display of representative images.	
12.	29/09/2017	Friday	09.00 to 10.00	<p>CT Scan, MRI & Newer Imaging Modalities:</p> <p>(a) CT Scan –</p> <ul style="list-style-type: none"> - (i) Discovery - (ii) Equipment - (iii) Indications - (iv) Advanced applications <p>(b) MRI –</p> <ul style="list-style-type: none"> - (i) Discovery - (ii) Equipment - (iii) Indications - (iv) Advanced applications <p>(c) Newer modalities</p> <ul style="list-style-type: none"> - (i) 3D, 4D Ultrasound - (ii) USG Contrast - (iii) Fusion imaging - (iv) Interventional Radiology - (v) PACS <p>Display of representative images.</p>	Dr. Amit Kharat

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