VYDEHI INSTITUTE OF MEDICAL SCIENCES AND RESEARCH CENTER
TIMETABLE FOR CBME PATHOLOGY -DECEMBER 2025 – RS-5/6 BATCH

DATE	THEORY	PRACTICAL
01.12.25 Monday	12.15 to 1.15 pm Dr.Prathima PA2.3 Describe morphological changes in intracellular accumulation of fats, proteins, carbohydrates, pigments 2.3.1. Enumerate the causes of intracellular and extracellular hyaline deposition 2.3.2. Enumerate the causes of fatty degeneration. Name the organs affected.2.3.3. Discuss the pathogenesis of fatty liver. Describe the morphology of fatty liver. 2.3.4. Enumerate special stains used to demonstrate Fat, Glycogen and Calcium. 2.3.5 Enumerate the causes of intracellular accumulation of proteins. 2.3.6. Enumerate different types of pigments in health and disease. 2.3.7. Name special stains to demonstrate hemosiderin and melanin..	2-4 PM SGD Dr.Shilpa, Dr.Selvi, Dr.Devasmita, Dr.Kaushiki, Dr. Charitha PA 2.6 - Describe and discuss cellular adaptations: atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia and carcinoma insitu 2.6.1. Define the term Adaptation. 2.6.2. Mention different types of Adaptation 2.6.3. Describe the pathogenesis and clinical significance of each Adaptation.
02.12.25 Tuesday	11.15 to 12.15 pm Dr. Prathima **PA2.4 Describe and explain Cell death- types, mechanisms, necrosis, apoptosis (basic as contrasted with necrosis), autolysis** 2.4.1. Define necrosis and enumerate the different types with examples. Discuss the morphology and fate of coagulative, liquefactive and caseous necrosis. 2.4.2. Discuss the pathogenesis and morphology of fat necrosis. 2.4.3. Discuss the pathogenesis and pathology of Apoptosis. 2.4.4. Describe the clinical significance of Apoptosis and Necrosis. 2.4.5. Difference between apoptosis and necrosis. 2.4.6. Define autolysis. Explain the mechanism with example. **PA 2.7 Describe the mechanisms of cellular aging and apoptosis** 2.7.1. Discuss the mechanism of cellular aging	
03.12.25 Wednesday		2-4 PM SGD Dr.Shilpa, Dr.Selvi, Dr.Devasmita, Dr.Kaushiki, Dr. Charitha PA 2.6 - Describe and discuss cellular adaptations: atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia and carcinoma insitu 2.6.1. Define the term Adaptation. 2.6.2. Mention different types of Adaptation 2.6.3. Describe the pathogenesis and clinical significance of each Adaptation.
04.12.25 Thursday		2-4 PM DOAP Dr.Radha, Dr.Divya, Dr.Sandhya, Dr. Hima, Dr.Athulya PA 2.8 - Identify and describe various forms of cell injuries, their manifestations and consequences in gross and microscopic specimens. Specimens: Gangrene, TB Lymph node Slides: Coagulative necrosis & caseous necrosis 2.8.1. Identify the morphology of coagulative, liquefactive and caseous necrosis. 2.8.2. Define and morphologically identify different types of Gangrene. 2.8.3. Correlate clinical presentation and morphological changes in Necrosis and Gangrene
05.12.25 Friday	12.15 to 1.15 pm Dr. Prathima	2-4 PM DOAP

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	PA 5.1 Define and describe edema its types, pathogenesis and clinical correlations 6.1.1. Define edema and explain the fluid balance. 6.1.2. Mention the differences between transudate and exudate. 6.1.3. Enumerate the types of edema and describe their pathophysiology (Renal, Cardiac, pulmonary, cerebral, nutritional and hepatic), clinical features and consequences	Dr.Radha, Dr.Divya, Dr.Sandhya, Dr. Hima, Dr.Athulya PA 2.8 - Identify and describe various forms of cell injuries, their manifestations and consequences in gross and microscopic specimens. Specimens: Gangrene, TB Lymph node Slides: Coagulative necrosis & caseous necrosis 2.8.1. Identify the morphology of coagulative, liquefactive and caseous necrosis. 2.8.2. Define and morphologically identify different types of Gangrene. 2.8.3. Correlate clinical presentation and morphological changes in Necrosis and Gangrene
08.12.25 Monday	12.15 to 1.15 pm Dr.Radha PA 5.3 - Define and describe shock, its pathogenesis and its stages 5.3.1. Define Shock and discuss the concept of adequate cardiac output and its importance 5.3.2. Enumerate the types and discuss the mechanisms of the various types of shock 5.3.3. Describe the various stages of shock with their clinical manifestations and morphological changes in various organs	2-4 PM DOAP Dr.Prathima, Dr.Shailaja ,Dr. Sameena, Dr.Pruthvi, Dr. Afsal 5.2.2. Enumerate the causes and identify the gross and microscopy of Chronic venous congestion, Lung, Liver and Spleen. Specimens: Chronic venous congestion liver Slides: Chronic venous congestion spleen
09.12.25 Tuesday	11.15 to 12.15 pm Dr. Radha SDL- PA-5.4a - Define and describe normal haemostasis 5.4a.1. Describe the role of endothelial cells, platelets and coagulation factors in maintaining hemostasis. 5.4a.2. Write the coagulation cascade Theory- PA 5.4b - Describe the etiopathogenesis and consequences of thrombosis 5.4b.1. Define thrombosis and explain Virchow's triad 5.4b.2. Enumerate hypercoagulable states. 5.4b.3. List the types of thrombus and its morphology 5.4b.4. List the differences between a postmortem and antemortem thrombus. 5.4b.5. Fate of thrombus and its clinical consequences 5.4b.6. Difference between arterial and venous thrombus. 5.4b.7. Contribution of alteration in blood flow to thrombosis.	
10..12.25 Wednesday		2-4 PM DOAP Dr.Prathima, Dr.Shailaja ,Dr. Sameena, Dr.Pruthvi, Dr. Afsal 5.2.2. Enumerate the causes and identify the gross and microscopy of Chronic venous congestion, Lung, Liver and Spleen. Specimens: Chronic venous congestion liver Slides: Chronic venous congestion spleen
11.12.25 Thursday		2-4 PM DOAP Dr.Shilpa, Dr.Selvi, Dr.Kavya, Dr.Manasa, Dr.Sukanya PA 5.6 - Define and describe Ischaemia/infarction its types, etiology, morphologic changes and clinical effects. PA 5.7 - Identify and describe the gross and microscopic features of infarction in a pathology specimen 5.6.1. Define infarction and enumerate the different types of infarction. 5.6.2. Describe the etiopathogenesis of infarction 5.7.1. Identify the gross features of infarction in various organs 5.7.2. Identify the microscopic features of infarction in various organs Slides: Infarct kidney Specimen : Infarct lung
12.12.25 Friday	12.15 to 1.15 pm Dr Radha	2-4 PM DOAP

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	PA 5.5 - Define and describe embolism and its causes and common types. 5.5.1. Define an embolism and enumerate the differences between a thrombus and an embolus. 5.5.2. Enumerate the types of embolism and describe their etiopathogenesis with examples and clinical manifestations	Dr.Shilpa, Dr.Selvi, Dr.Kavya, Dr.Manasa, Dr.Sukanya PA 5.6 - Define and describe Ischaemia/infarction its types, etiology, morphologic changes and clinical effects. PA 5.7 - Identify and describe the gross and microscopic features of infarction in a pathology specimen 5.6.1. Define infarction and enumerate the different types of infarction. 5.6.2. Describe the etiopathogenesis of infarction 5.7.1. Identify the gross features of infarction in various organs 5.7.2. Identify the microscopic features of infarction in various organs Slides: Infarct kidney Specimen : Infarct lung
15.12.25 Monday	12.15 to 1.15 pm Dr.Prathima PA6.1a - Define and classify neoplasia, biologic behavior and spread. 6.1a.1. Define and classify neoplasia 6.1a.2. For both males and females, list in descending order: • the five most common cancers • the five most common causes of cancer death 6.1a.3. Define and differentiate with examples: Ectopia, Heterotopia, Hamartoma, Teratoma. 6.1a.4. Outline the classification and nomenclature for benign and malignant neoplasms using appropriate prefixes and suffixes and indicating specific exceptions to rules of nomenclature. 6.1a.5. Discuss the differences between benign and malignant neoplasms	2-4 PM DOAP Dr.Radha, Dr.Divya, Dr.Devasmita, Dr.Hima, Dr. Sneha PA 6.1b - Describe the characteristics of neoplasia including gross, microscopy. Differentiate between benign from malignant neoplasm. 6.1b.1. Identify the gross and microscopic features of benign neoplasms. Slides: lipoma, schwannoma Specimens : Lipoma
16.12.25 Tuesday	11.15 to 12.15 pm Dr. Prathima PA6.1a - Define and classify neoplasia, biologic behavior and spread. 6.1a.6. Enumerate the routes of spread. Compare and contrast the route of spread of Carcinoma versus Sarcoma with exceptions. 6.1a.7. Define metastasis and discuss the mechanism of metastasis. 6.1a.8. Define staging and grading of tumours and its clinical significance. 6.1a.9. List the most common sites of origin of: adenoma, adenocarcinoma, squamous cell carcinoma, melanoma .	
17.12.25 Wednesday		2-4 PM DOAP Dr.Radha, Dr.Divya, Dr.Devasmita, Dr.Hima, Dr. Sneha PA 6.1b - Describe the characteristics of neoplasia including gross, microscopy. Differentiate between benign from malignant neoplasm. 6.1b.1. Identify the gross and microscopic features of benign neoplasms. Slides: lipoma, schwannoma Specimens : Lipoma
18.12.25 Thursday		2-4 PM DOAP Dr.Prathima, Dr.Shailaja, Dr.Varsha, Dr.Kaushiki, Dr. Soumya 6.1b.1. Identify the gross and microscopic features of benign and malignant neoplasms. Slides: hemangioma, adenocarcinoma colon Specimens: adenocarcinoma colon
19.12.25 Friday	12.15 to 1.15 pm Dr Prathima PA 6.2 - Describe the molecular basis of cancer. 6.2.1. Describe the cell cycle. 6.2.2. Write a note on cell signalling pathways 6.2.3. Describe role of proto-oncogenes, oncogenes and onco-proteins in carcinogenesis 6.2.4. Describe the role of important tumour suppressor	2-4 PM DOAP Dr.Prathima, Dr.Shailaja, Dr.Varsha, Dr.Kaushiki, Dr. Soumya 6.1b.1. Identify the gross and microscopic features of benign and malignant neoplasms. Slides: hemangioma, adenocarcinoma colon Specimens: adenocarcinoma colon

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	genes (Rb gene, p53, APC) in carcinogenesis. 6.2.5. Enumerate and discuss the steps of multistep carcinogenesis.	
22.12.25 Monday	12.15 to 1.15 pm Dr.Prathima PA6.3 - Enumerate carcinogens and describe the process of carcinogenesis 6.3.1. Define and classify carcinogens. 6.3.2. Classify and enumerate chemical carcinogens 6.3.3. Describe the mechanism of chemical carcinogenesis 6.3.4. Discuss the mechanism of Radiation carcinogenesis (UV rays and Ionizing radiation) and name the associated cancers. 6.3.5. Classify microbial carcinogens and enumerate associated neoplasms. 7.3.6. Discuss the mechanism of microbial carcinogenesis. 6.3.7. Elaborate the role of the following in the development of human cancer in relation to at least 2 specific neoplasms associated with each: • physical agents • chronic inflammatory conditions • hormones	2-4 PM DOAP Dr.Shilpa, Dr.Selvi, Dr.Sandhya, Dr.Pruthvi, Dr. Lohit PA 6.1b.1. Identify the gross and microscopic features of malignant neoplasms. Slides: squamous cell carcinoma, basal cell carcinoma Specimens: squamous cell carcinoma
23.12.25 Tuesday	11.15 to 12.15 pm Dr. Sandhya PA 11.1 - Describe the pathogenesis and features of common cytogenetic abnormalities and mutations in childhood 11.1.1. Define gene, mutation, the types of mutation 11.1.2. Discuss the transmission patterns of single gene disorders with examples for each 11.1.3. Describe the normal Karyotype 11.1.4. Discuss the various structural abnormalities of chromosomes	
24.12.25 Wednesday		2-4 PM DOAP Dr.Shilpa, Dr.Selvi, Dr.Sandhya, Dr.Pruthvi, Dr. Lohit PA 6.1b.1. Identify the gross and microscopic features of malignant neoplasms. Slides: squamous cell carcinoma, basal cell carcinoma Specimens: squamous cell carcinoma
25.12.25 Thursday	**HOLIDAY**	
26.12.25 Friday	12.15 to 1.15 pm Dr Sandhya PA 11.2 - Describe the pathogenesis and pathology of tumour and tumour like conditions in infancy and childhood TLM : Lecture – 1 hr Assessment:Written, Viva voce 11.2.1. Describe the tumour like lesions in infancy and childhood with few examples for each. 11.2.2. Name some common benign tumours in children. 11.2.3. Discuss the morphology of common benign tumours. 11.2.4. Classify common childhood malignant tumours.	2-4 PM SGD Dr.Prathima, Dr.Shailaja, Dr.Varsha, Dr.Hima, Dr.Ravi PA-6.4 - Describe the effects of tumour on the host including paraneoplastic syndrome PA6.5 - Describe immunology and the immune response to cancer 6.4.1. Discuss the local and systemic effects of tumour on the host. 6.4.2. Define and discuss Paraneoplastic syndromes. 6.4.3. Discuss the different types and clinical significance of tumour markers and their role in lab diagnosis. 6.5.1. Describe host immune response to cancer.
27.12.25 Saturday		
28.12.25 Sunday		
29.12.25 Monday	12.15 to 1.15 pm Dr Sandhya PA 11.3 - Describe the pathogenesis of common storage disorders in infancy and childhood 11.3.1. Discuss the pathogenesis lysosomal storage diseases. 11.3.2. Name the lysosomal storage diseases and associated enzyme deficiency. 11.3.3. Describe the morphology of Niemann-Pick disease, Gaucher's disease	

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30.12.25 Tuesday	11.15 to 12.15 pm Dr Sameena INFECTIONS AND INFESTATIONS (PA-10) PA 10.3 - Define and describe the pathogenesis and pathology of leprosy 10.3.1. Define and Classify Leprosy 10.3.2. Discuss the pathogenesis of leprosy 10.3.3. Differentiate morphology of tuberculoid and lepromatous leprosy	
31.12.25 Wednesday		2 – 4 PM SGD Dr.Prathima, Dr.Selvi, Dr.Varsha, Dr.Hima, Dr.Ravi INFECTIONS AND INFESTATIONS (PA-10) PA 10.1 - Define and describe the pathogenesis and pathology of malaria. PA 10.2 - Define and describe the pathogenesis and pathology of cysticercosis. 10.1.1. Enumerate parasite causing malaria 10.1.2. Describe the life cycle of malarial parasite 10.1.3. Describe morphology of malarial parasite 10.1.4. Discuss the lab diagnosis in malaria. 10.2.1. Enumerate cause of cysticercosis 10.2.2. Discuss etiopathology of cysticercosis

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DATE/DAY	THEORY	PRACTICAL
02.12.25 Tuesday	Inflammatory/Infective disease of intestine- Tuberculosis, Typhoid, Cholera, Amoebic colitis, Bacillary dysentery.	-
04.12.25 Thursday	Inflammatory bowel disease- Crohn's & Ulcerative	-
05.12.25 Friday	-	Peripheral smear- CML, CLL Charts- AML, ALL
08.12.25 Tuesday	Intestine- miscellaneous conditions- appendicitis, gangrene (vascular disease), diverticulosis, Hirschsprung's disease, intestinal obstruction, intussusception & volvulus	-
11.12.25 Thursday	Tumors of small & large intestine- adenomas, polyps, polyposis syndromes, carcinoma, lymphoma intestine	-
12.12.25 Friday	-	Charts- PS of Macrocytic anemia, Spherocytosis, BM of Multiple myeloma, Hemolytic anemia
16.12.25 Tuesday	Pancreas- Pancreatitis, Tumors- Exocrine & endocrine, MEN syndrome.	-
18.12.25 Thursday	Hepatitis- Causes, Pathogenesis, Pathology, prognosis & clinical findings with special focus on viral hepatitis .	-
19.12.25 Friday	-	Charts- Hepatitis, Obstructive & Hemolytic Jaundice
23.12.25 Tuesday	Alcoholic liver disease- Pathogenesis, stages, pathology and clinical correlations. Portal hypertension.	-
25.12.25 Thursday	**HOLIDAY**	
26.12.25 Friday	-	Instruments
30.12.25 Tuesday	Cirrhosis of liver – definition, types, pathology with special reference to hemochromatosis, Wilson's disease, primary biliary cirrhosis, and Indian childhood cirrhosis.	

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