DEPARTMENT OF ANATOMY

Title	Value Added Course in **Course in Histology Staining Technique**
Target group	UG / Interns / PG students of Medical & Dental courses at RRMCH
Goal & Objective of the Course	**Goals**: 1. To understand the basic principles of microscope, usage of equipments and materials in staining procedure. 2. For routine diagnosis, the use of Hematoxylin and Eosin (H&E) is by far preferred for viewing cellular and tissue structure detail by pathologists. The variation of stain intensity is often driven by the pathologist's learning experience and personal preference. Because this stain demonstrates such a broad range of cytoplasmic, nuclear, and extracellular matrix features, nearly all teaching texts use H&E images. We continue to use this simple and essential stain today, which has remained unchanged for well over a century. **Objectives of the course:** ● Histology is a key part of modern medicine – it helps us study cells and tissues at a microscopic level, and accurately diagnose diseases such as cancer. This course helps in identifying the basic tissue and selection of appropriate stain for the structure in interest. ● This course introduces the field. It starts with the basic principles of light microscopy, before focusing on the structure and function of human tissues, and the relationships between them. ● Demonstrate common histology procedures such as paraffin embedding, tissue sectioning and mounting. Routine staining of tissue sections along with commonly used special stains. ● Describe quality practices for histology laboratory
Course content: [details of the **syllabus]**	**Duration of the Course:** The duration of the course is 16 hours. Admission: once in a year
	Eligibility for admission. Any UG / Interns / PG who is a student of RRMCH will be eligible for the admission to this course. **Medium of teaching and examination.** A. Medium of instruction of course will be in English. B. Evaluation of course will be on the basis of attendance, behavior and discipline [Assignments] Practical knowledge obtained during the training period. C. Theory and practical examination After completion of evaluation / examination, certificate will be issued by RRMCH, affiliated to Dr. MGR Educational And Research Institute.

Planned method of **teaching — learning**	Lecture Demonstration followed by hands on
Planned method of assessment:	There will be a Final written exam for 50 marks & practical exam for 50 marks. The student has to get 50% marks for successful completion of the course.

Syllabus:

Topics	Duration
An introduction to histology and the role or histopathology in diagnosis of disease	1hr
Development of skills in using a light microscope and understanding the potentials and limits of the instrument	2hr
Description of how histological slides are procured, stained and interpreted	4hr
Development of the ability to identify the major cell types and tissues from their histological appearance	2hr
Description of the structures of tissues with relationship to their functions	2hr
H&E Chemistry	2hr
Some Common Special Stains	2hr
Methods to improve the quality of staining	1hr

Mrs.Padmalatha.N
Course coordinator

HOD of Anatomy