



### Goals

The goal of teaching pathology is to provide undergraduate students comprehensive knowledge of the causes and mechanisms of disease, in order to enable them to achieve complete understanding of the natural history and clinical manifestations of the disease

### Objectives

#### Knowledge

- Describe the structure and ultrastructure of a sick cell, understand cell degradation, cell death and repair.
- Correlate structural and functional alterations in the sick cell.
- Explain the Patho physiological processes which governs the maintenance of homeostasis,
- Describe the mechanisms and patterns of tissue response to injury
- Correlate the gross and microscopic alterations of different organ systems in common diseases
- Develop an understanding of neoplastic changes.
- Understand mechanisms diagnosis and management of common haematological disorders.

#### Skills

- Describe the rationale and principles of technical procedures of diagnostic laboratory tests
- Interpret diagnostic laboratory tests and correlate with clinical and morphological features diseases
- Perform simple bedside tests on blood, urine and other biological fluid samples.
- Draw a rational scheme of investigations aimed at diagnosing and managing common disorders.
- Recognise morbid anatomical and histopathological changes for the diagnosis of common disorder. Introduction of “Communication Skills, Professionalism & Ethics in Medical Education
- Modules” in 2<sup>nd</sup> Year MBBS Syllabus New Topic in Syllabus of Pathology (A.Y. 2015-16 )

### Integration

- At the end of one year, the student shall be able to integrate the causes and mechanisms of disease most prevalent in India with their natural history for the understanding of their clinical course and management.

### Student Support Activity

CME	UG	PG
Jaundice	1	1
Immune Histo chemistry (IHC)	1	1
<b><i>Guest Slide Seminar</i></b>		
Dr. Megha Joshi (USA)	-	1
Dr. Tanuja Sheth TATA Hospital	-	1

### Infrastructure and learning resources

- Demonstration Room: 68 sqm (80 students), with LCD & OHP projector
- Morbid Histopathology/Cytopathology: 249Sqm. (80 Students)
- Clinical Pathology/Haematology: 246 Sqm (80 Students)
- Preparation Room- 22 Sqm with LCD projector, OHP Projector
- Museum:- 122 Sqm ( 580 students)
- Departmental Lab: 35Sqm (8-10 Students)

Sr. No.	Official Accommodation	Area of accommodation
1.	HOD Room	21 Sqm
2.	Professor Room	15.20 Sqm
3.	Library Room	35.22 Sqm
4.	Associate Prof. Room	15 Sqm
5.	Assistant Prof. Room	15 Sqm
6.	Tutor room	16 Sqm
7.	Common PGs Room	39.19 Sqm
8	Non-teaching Room	14 Sqm

### Library

Pathology	Books	Title
Central Library	617	233
Departmental Library	201	148
Journal ( Indian & Foreign)	06 (national – International)	

## Special Equipment's In Department

### (A) Histology Automated Instruments:

- Tissue Processor
- Embedding Station
- Rotatory microtome
- Slide stainer
- Cover slip mount

### (B) Departmental Research Equipment's

- Digital Slide scanner
- IHC Machine (1. Ventana 2. Thermo scientific)
- Research Microscope
- Deca Head & Penta Head Reporting and research system of microscopes
- Olympus high Magnification, CX43RF Microscope for individual faculty reporting
- Nikon DSLR camera with macro lens

### Department Equipment's / Teaching aids

- Binocular microscopes- 65
- LCD : 1
- Projectors- 3
- OHP Projector: 2
- Audio system- 2
- Computers: 7 connected to internet
- All equipment's as per NMC norms including double beam UV-VIS Spectrophotometer are available

#### Deca Microscope



#### Penta Microscope



#### Pathology Museum



#### Cytopathology Lab



## Central Clinical Laboratories



## Fully Automated Analyzer, Chemiimmunoassay, Cell Counters



## Grossing station Immunohistochemistry- digital slide scanner



## Cytospin Equipment



## Automatic CBC Analyser ( 5 Part )



**Dr. Megha Joshi (USA)**  
**Guest Lecture**



**Immunohistochemistry CME**  
**(in collaboration with TMC)**



### **Governance, leadership**

- Institutional ethics committee
- Alignment and integration committee phase II
- Alignment and integration committee phase III/I
- Alignment and integration committee phase III/II
- Curriculum subcommittee
- Blood transfusion committee