

# Healthcare

## Introduction of the Sector

Health Care comprising of hospitals, medical devices, clinical trials, outsourcing, telemedicine, medical tourism, health insurance and medical equipment has become one of India's largest sectors – both in terms of revenue and employment. With increased awareness about health, domestic healthcare, medical tourism and health insurance markets are gaining momentum, offering opportunities for trained personnel.

## Post Graduate Diploma in Advanced Histotechnology and Cytotechnology

### Course Introduction

Histotechnology is highly demanding especially in the context of cancer diagnosis. Although informal short-term training is available, a structured training course is lacking. Diploma courses in medical laboratory technology offer a very cursory introduction to the subject with little or no practical training. Moreover, the theoretical underpinnings of the specialty are under emphasized. A specialized Histotechnology course conducted by a dedicated histopathology laboratory is the need of the hour.

Cytotechnology is the microscopic study of body cells to detect cancer, viral and bacterial infections, and other abnormal conditions. Cytotechnologists usually work closely with a pathologist.

### Course Objectives

Prepare the students to independently organize and manage a histopathology laboratory with all necessary infrastructure.

At the end of the training the students should be able to process tissues independently, cut sections and stain them by the routine haematoxylin and eosin staining procedure and be able to do the most commonly used special staining techniques wherever required. They will be confident of performing IHC and other histology related techniques

The students should also be acquainted with quality procedures, and be able to prevent and rectify problems if they should arise. They should also be familiar with quality assurance standards that pertain in this country.

### Eligibility for Admission

The candidate should have completed B.Sc. (Life Sciences/Microbiology/Biosciences/Chemistry with Biology +MLT or B.Sc. (MLT)

### Career Prospects

The career prospects for a histotechnologist is in large hospitals, major pathology laboratories where a histopathology division is functional. Other avenues are Veterinary services, private research labs, pharmaceutical companies. Employment opportunities abroad are also bright.

### Semester Wise Distribution of Course Credit and Hours

Semester	Subject	Credit	Theory	Practical
Semester 1	Module-1: Basics of Tissue Processing	6	3	3
Semester 1	Module-2 : Microtomy and Basic Chemistry	7	3	4

Semester 2	Module-3: Frozen Section and Enzyme Histochemistry	6	3	3
Semester 2	Module-4 : Cytology, Molecular Pathology and Quality Control	6	3	3
	Total	25	12	13

**Programme fees:** Rs. 84,000/-per annum

**Examination fees:** Rs. 2,500/- per semester and Rs. 5000 per annum

**Caution Deposit ( Refundable):** Rs.5000

