

**Gujarat Technological University (GTU)**  
**in Collaboration with**  
**Anchrom Enterprises (I) Pvt. Ltd.**  
**Organises Short Session on**  
**“HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC)”**

**29.06.2017, Thursday (03.00 pm to 05.00 pm)**

Gujarat Technological University (GTU) in association with Anchrom Enterprises (I) Pvt. Ltd. Organises a specialised session on “HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC)” for Students of Pharmacy, Faculty of Pharmacy from GTU affiliated and Non GTU affiliated colleges.

Programme is open for all, and any interested person may take into this programme.

**ABOUT THE PROGRAMME:**

HPTLC is a liquid chromatography technique used for qualitative, quantitative, fingerprint analysis as well as micro-preparative isolations.

Thin Layer Chromatography (TLC) has been in practice since 1960s. In the 1980s instrumentation was made for this technique, leading to Instrumental TLC (occasionally confused with HPTLC!). However, this confusion has ended in 2015 when the USP Chapter 203 has become official which describes the SOP to be used for “true” HPTLC.

The “visual” nature of HPTLC has made it the official method “for identification of materials of botanical origin by HPTLC fingerprint.

**This SOP requires** the use of


- a) HPTLC plates (5 microns) of 20x10 cm size, preferably on glass
- b) Max 15 samples per plate, 8mm long bands, 8mm from bottom, 20mm from side
- c) Development in a 20min saturated lined twin trough chamber, in 33% RH, up to 70mm
- d) Drying in cool air
- e) Documentation of images in UV 254, UV 366nm & visible

**The main advantages of HPTLC** are that results can be seen by the human eye, can analyse up to 5 types of samples, 15 of each in parallel, sample remain on plate and so any sample is acceptable, post chromatography derivatisation is simple and routinely possible to get additional information about sample.

**Applications of HPTLC** include organic synthesis samples, formulations analysis, impurity profiles, stability studies, all kinds of analysis of botanical origin materials.

HPTLC is very important in India because it is simple to use, flexible, shareable, fast, gives tremendous information about samples, low cost of analysis and maintenance.

## PROFILE OF EXPERT/SPEAKER:

Name/Designation/Department	Topic	Photo
<b>AKSHAY CHAREGAONKAR</b> Director Anchrom Enterprises (I) P. Ltd., Mumbai	“HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC)”	

## WHO CAN JOIN?

- Any under graduate, post graduate and Ph.D. students aspiring to learn about HPTLC.
- Faculty members from GTU affiliated and Non GTU affiliated colleges
- Pharma people from Industry

## NO REGISTRATION FEES TO TAKE PART INTO THIS PROGRAMME

### PROGRAMME DURATION AND TIMINGS:

**Date:** 29<sup>th</sup> June 2017 Thursday

**Reporting time:** 02.30 pm

**Timing:** 03.00 pm to 5:00 pm

**Programme Registration Link:** <https://goo.gl/dA5oQ4>

## VENUE OF THE PROGRAMME

**A1 Hall,**

**Gujarat Technological University**

Nr.Vishwakarma Government Engineering College

Nr.Visat Three Roads, Visat - Gandhinagar Highway

Chandkheda, Ahmedabad – 382424 - Gujarat

## FOR ANY QUERY PLEASE CONTACT AT:

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