

**HONOURS CERTIFICATE PROGRAMME PROPOSAL
AY 2021-2022**

General Information of the Activity		
1.	Department and Hub	Chemistry and Physical Science
2.	Title of the Activity	Online workshop on Pharmaceutical and Organic analysis
3.	Name of the Professor taking the course and Email address	Dr. Pralhad Rege pralhad.rege@xaviers.edu
4.	Name/s of the Resource person/s	Dr. Pralhad Rege
5.	Name of the Dept Coordinator and Email address	Dr. Abhilasha Jain abhilasha.jain@xaviers.edu
6.	Name of the Hub Coordinator and Email address	Dr. Abhilasha Jain abhilasha.jain@xaviers.edu
7.	Number of credits for the activity and number of hours	01 and 15 to 18 hrs
8.	Fees	Rs. 750/-
9.	Eligibility	SY and TY Science students
10.	Number of students	15 to 20
11.	Duration and Time	Through out the year

Details of the Activity	
1	Title: Online workshop on Pharmaceutical and Organic analysis
2	<p>Learning Objectives:</p> <ol style="list-style-type: none"> 1. To understand the basic operating principles of pharmaceutical industry 2. To acquaint learners with various essential components of pharma industry, forensic science, cosmetics etc. 3. To comprehend the role of analytical chemistry in forensic science, drug analysis and cosmetics 4. To familiarize learners with concepts i.e., limit test, GMP, GLP GCP, QMS and Quality Audits 5. To bridge a gap between academics and industry
3	<p>Learning Outcomes:</p> <p>On completing the course, the learner shall be able to</p> <ol style="list-style-type: none"> 1. Identify and illustrate the role and importance of pharma industry in day-to-day life 2. Describe the significance of forensic science and cosmetics to the mankind 3. Discuss the drug investigation and their applicability 4. Explain dissolution and disintegration analysis 5. Define the basic principles of bioequivalence and bioavailability studies
4	<p>Description</p> <p>The pharmaceutical industry discovers, develops, produces, and markets drugs or pharmaceutical drugs for use as medications to be administered (or self-administered) to patients, with the aim to cure them, vaccinate them, or alleviate the symptoms. Drug analysis, Cosmetics and Forensic analysis are three imp fields where analytical techniques are applied for analysis of different materials. Cosmetics is the area where analytical methods have revolutionized preparation of modern cosmetics products for variety of specific applications. Common analysis of cosmetics is also dealt in detail. Forensic science is branch which relies heavily on analytical techniques to investigate crime scene samples and generate reliable results with established facts which could be used in court of law for proving the crime. Role of analytical chemistry in forensics is discussed with emphasis of different types of analysis required in forensic sciences. Pharmaceutical chemistry with drug analysis, forensic science and cosmetics are the fundamental aspects of industrial chemistry and plays vital role to mankind.</p>
5	Modules if any-N/A