

**Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College, Vashi [Autonomous]**

**Department of Chemistry**

**Certificate Course in "Forensic Science"**

<b>Title: Forensic Science</b>	
<b>Date(s): 3<sup>rd</sup> March 2021 February to 15<sup>th</sup> March 2021</b>	
<b>Time: 08.00am-10.00am</b>	
<b>Preamble:</b> Certificate course in Forensic Science has been conducted from 3 <sup>rd</sup> March 2021 February to 15 <sup>th</sup> March 2021, at Karmaveer Bhaurao Patil College, Vashi .	
<b>Participant's Details:</b> A total of 23 participants attended this course.	
<b>Details of the Certificate Course:</b>	
Eligibility	: HSC
Duration	: Three Months
Intake Capacity	: 40 Students
Theory & Practical	: 30 Hrs
Fees Structure	: Rs. 2000
Examination Pattern:	
Theory	: 50%
Practical	: 50%
<b>Objective:</b>	
1 Current applications of chemistry in forensic sciences to the students	
2. Concepts in Forensic Toxicological examinations and its significance.	
3. Practical knowledge of food adulteration, poisons and various adulterants in alcohol, vegetable oils, petrol and diesel	
<b>Course Content:</b>	
<b>[Theory]</b>	
<ul style="list-style-type: none"><li>• Concept of Forensic Toxicological Examination and its Significance.</li><li>• Classification of poisons, types of poisoning, collection and preservation of toxicological samples.</li><li>• Preservation of toxicological exhibits in fatal and survival cases, signs and symptoms of poisoning.</li><li>• Mode of action and its effect on vital functions, medico-legal and postmortem examination report/finding studies.</li><li>• Specific analysis plan/ approach to toxicological examination of poisoning Samples</li><li>• Excretion of poisons, detection of poisons on the basis of their metabolic studies, interpretation of analytical data and forming of opinion.</li></ul>	

## [Practical]

1. Separation of Sampling Material by TLC (drugs and poisons)
2. Identification of food adulteration.-vegetable oil and Cold drinks
3. Adulteration in Petrol and Diesel.
4. Detection and determination Examination of fire arson cases by GC, TLC.
5. Detection of various adulterants in alcohol, by colour tests.(Qualitative Analysis)

### Description of the Course:

The Inaugural started on 3<sup>rd</sup> March 2021 via online mode with a welcome speech by Assistant Professor Dr.B.S.Shinde and this course is conducted by departmental Experienced faculties Dr.R.D.Mohite, Dr.L.V.Gavli, Dr.G.C.Wadhava, Mr.S.R.Bhagvat and Ms.G.M.Gaidhane taking lecture for this course.

The entire programme was coordinated with the support of the Principal Dr.Shubhada Nayak, HOD Dr.R.D.Mohite and faculties of the Chemistry Department.

### Course Outcomes:

1. Identifies and quantifies the presence of drugs and chemicals in blood.
2. Gain knowledge on various aspects of Forensic Medicine.
3. Understand the basis of presumptive and confirmation testing, and compare and evaluate the use of a variety of biological matrices in toxicological analysis.
4. Discuss the pharmacological characteristics and analytical considerations of several major drugs classes commonly encountered in Forensic Toxicology.
5. Explain how pharmacokinetic/ pharmacodynamic parameters can be used to interpret toxicological findings.

### Mode of Workshop: Google Meet

**Link:** <https://meet.google.com/jux-rgur-ppy>

### Feedback:

The entire course was an interactive session and the speakers answered many queries and doubts raised by the participants. Students understood the whole course and it was helpful for them.

### Certificate Format



Dr. B.S. Shinde  
co-coordinator



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