



THE P. G. K. MANDAL'S



# HARIBHAI V. DESAI COLLEGE, PUNE

*Presents...*

## High Valued Developments in Instrumentation

**[HVDI 2022-2023]**

<b>Course name</b>	High Valued Developments in Instrumentation [HVDI 2022-23]
<b>Mode</b>	OFFLINE Hands-on Training Program
<b>Duration</b>	22 <sup>nd</sup> May – 7 <sup>th</sup> June 2023 {15 days}
<b>Venue</b>	Department of Chemistry Haribhai V. Desai College Pune
<b>Eligibility</b>	B.Sc. & M.Sc. Students of Chem, Micro, Phy and for Teachers, Researchers and Industrialists

**Dr. Rajendra G. Gurao**  
**Principal**

Haribhai V. Desai Arts, Science & Commerce College, Near Shaniwar  
Wada, Pune, Maharashtra 411002, INDIA

## ABOUT COLLEGE:

**Haribhai V. Desai College** is recognized as one of the premier academic institutions in Pune city. It stands tall in public esteem and in the memories of its alumni, many of whom are now prominent figures in government, business and industry, the media, and education., students from all religions have grown up here and excelled in the chosen areas of their interests, be it academics, sports, or extra-curricular activities. Haribhai V. Desai College was established in 1984, by The Poona Gujarati Kelvani Mandal. It started as an organization to cater to the Gujarati minority and traditional business sections of society. The college is in the traditional business area of Pune city with a high density around it. This promoted the girl students from houses around to take education. Originally, the College was housed in RCM School and Junior College and s affiliated with Pune University the College shifted into its new premises in the year 1987 and was a single faculty college until 1993.



## Address

Haribhai V. Desai College, Near Shaniwar Wada, Pune,  
Maharashtra 02, INDIA

## About High Valued Developments in Instrumentation Course:

Our laboratory is equipped with the latest and High-end analytical equipment's such as HPLC, GC, UV, FTIR and Photocatalytic Reaction Set-up. ***In this course we offered to handle instruments to students from very first day of the course under supervision.*** Also, Sample preparation, Solution preparation, trouble shooting, Method development, Data Interpretation and related issues solving are covered. Master's and High skilled Industrial experts with experience are invited to interact with participants. We provide consultancy and testing services in the field of Food, Pharmaceuticals, Cosmetics, Water, Environment, Textiles and many more with minimal charges. We also conduct training on advanced instrumentation, provide internship programs and undertake contract research. Basic to advance Instrumentation is also covers using Lecture Series to ignite the knowledge of students. Detailed demonstration on use and working of Software's like Chem-Draw/ Chem-Sketch for Organic structure drawings is also conducted with use of Origin software to plot the graph of XRD, UV, FTIR etc. Managing Directors, Directors, HR's and Head of Departments are also invited to interact with students in view of construction of proper Biodata and to conduct Face-to-face Interviews. *Herein, the interesting part is the 'campus interviews' where various MNC Companies, analysis labs, Water testing labs, Instrumentation labs etc. are invited to conduct interviews during the course.*



***Advanced Chemistry Laboratory at H. V. Desai College***

## Instruments Covered in Course

- ❖ **High Performance Liquid Chromatography (HPLC)**
- ❖ **Gas Chromatography (GC)**
- ❖ **UV Spectrophotometer**
- ❖ **FTIR Spectrophotometer**
- ❖ **Photo-catalytic setup**
- ❖ **Atomic Absorption Spectroscopy (AAS)**
- ❖ **Flame Photometer**
- ❖ **Colorimeter**
- ❖ **Geiger Muller Counter (GM Counter)**
- ❖ **Spectrophotometer**
- ❖ **pH Meter**
- ❖ **Potentiometer**
- ❖ **Conductometer**

📌 College Website: <https://hvdesaicollege.org/HVDesai/Home>

📌 Instrumentation Course Details: <https://youtu.be/jm26kh9Pcc0>

📌 Departmental Telegram Channel: <https://t.me/+0FgGk-XYhZljNmZl>

📌 Chemistry Post-Graduate Department:

<https://hvdesaicollege.org/HVDesai/SciencePGAnalyticalChemistry>

## Details of Instruments

### UV-Visible Spectrophotometer

**Model No: Shimadzu UV-1800**

**Software: UV Probe Software**

- ✦ Powerful 1-nm resolution in a compact double-beam instrument.
- ✦ Extremely versatile with full functionality from 190 to 1100 nm.
- ✦ Control as a stand-alone unit or through a PC with UV Probe
- ✦ PC interface and flash-drive data transfer via USB connectivity
- ✦ Built-in validation software ensures operational accuracy

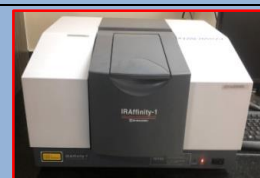


### Fourier Transform Infrared Spectroscopy (FTIR)

**Model No: Shimadzu IR Affinity 1 FTIR-8400S**

**Software: IR Solution**

- ✦ Both Solid and Liquid samples can be done.
- ✦ Requires less than a Minute to perform sampling.
- ✦ It includes patented technology to increase stability and precision.
- ✦ Its moving mirror is run precisely by a flexible joint system.
- ✦ Interferometer is optimized by a dynamic alignment mechanism.



### High performance liquid Chromatography (HPLC)

**Model No: Shimadzu HPLC SIL-20AHT**

**Software: LC solution**

- ✦ The Prominence UFLC System.
- ✦ Up to 10 times faster than a conventional HPLC system.
- ✦ 5- $\mu$ m particle column with UV Detector.
- ✦ High-quality analytical results. Auto-sampler with 105 samples vials.
- ✦ Specialized systems are unable to achieve good results.
- ✦ C-18 Column 30cm length and 4.6mm diameter
- ✦ Superfast and easy to use under supervision.



### Gas Chromatography (GC)

**Model No: Shimadzu GC-2014**

**Software: LC solution**

- ✦ User-friendly.
- ✦ High performance, the GC-2014 gas and maximize lab efficiency.
- ✦ Chromatograph is an excellent option for routine analysis.
- ✦ Organic Reaction conversion can be monitored.
- ✦ Hydrogen, Nitrogen and Air Carrier Gases are available.
- ✦ Flame Ionization Detector (FID).
- ✦ Capillary Column 30m length and 0.25 $\mu$ m diameter.





## Details for Registration

**Registration Fees: Rs. 6000/-**

**Payment Process:** (Please follow these steps for payment using Paytm app)



Scan Code & Select Other Fee



Fill in all information & type 'HVDI Course' In other fee type.



Proceed & Pay the Registration fees.



Share Screenshot on 862303980 (Dr. Vikram Pandit)

## Contact Details

<b>Prof. Ganesh P. Jadhav</b> Mob: 8888397423	<b>Prof. Omkar A. Malusare</b> Mob: 9403266151
<b>Dr. Vikram U. Pandit</b> Mob: 9970679052	<b>Prof. Bhagwan D. Daphal</b> Mob: 9970369976



Address: Haribhai V. Desai College, Near Shaniwar Wada, Pune, Maharashtra 02,  
INDIA

## Placements 2022-2023

		
<p><b>Mr. Niraj Kolte</b> Synpase Labs, Pune Waghire College, Saswad</p>	<p><b>Miss Kaifa Nadaf</b> HERML DRDO, Pune H.V. Desai College, Pune</p>	<p><b>Miss Vrushali Bhalerao</b> Emcure Pharma, Pune SP College, Pune</p>
		
<p><b>Mr. Kaustubh Chiklikar</b> Sai Life Sciences, Hyderabad Fergusson College, Pune</p>	<p><b>Mr. Rohit Handore</b> Valiant Organics, Mumbai H.V. Desai College, Pune</p>	<p><b>Mr. Vaibhav Anuse</b> Berger Paints, Pune H.V. Desai College, Pune</p>
		
<p><b>Miss Mansi Subhedar</b> ELCA Calibration Pune SP College, Pune</p>	<p><b>Mr. Gokul Shinde</b> Enicar Pharma Boisar H.V. Desai College, Pune</p>	<p><b>Mr. Atul Bhalsing</b> Kores Pharma, Rajgad H.V. Desai College, Pune</p>

## Our Esteemed Collaborators

<b>C-MET, Pune</b>	<a href="https://cmet.gov.in/">https://cmet.gov.in/</a>
<b>Sahyadri Industries Ltd., Pune</b>	<a href="https://www.silworld.in/">https://www.silworld.in/</a>
<b>SENGEE Biochem Exim Pvt. Ltd., Pune</b>	<a href="https://sengeebiochem.com/">https://sengeebiochem.com/</a>
<b>ORAH Nutrichem Pvt. Ltd., Pune</b>	<a href="https://orahnutrichem.com/">https://orahnutrichem.com/</a>
<b>Modern Analytical Labs, Pune</b>	-