Activity Report Academic Year 2019-20

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Name of the activity	Guest Lecture		
Name of the Place	G. M. Vedak College of Science, Tala Raigad		
Date	22/11/2019		
Organizing Dept/Committee	Department of Chemistry		
Name of the Coordinator of the activity and Members	Dr. Sachn V. Bangale		
Name of Guest/Resource Persons	Dr. Vilar R. Jadhavar Assistant Professor, K.E.S. Anandibai Pradhan Science College, Nagothane- 402125.		
Activity for Class/Group	M.Sc. Organic Chemistry Students		
Objective for Conducting the Activity	To understand the basic idea about the instruments used in analytical chemistry.		
No. of Participants	Students: 44 Teachers: 04		
Outcome of the Programme /Activity	Students can learn about the instrumentation in analytical chemistry.		
External Agency Associated (If	NA		

Proof Attached

- 1. Report
- 2. Invitation Letter
- 3. Notice
- 4. Photos

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In-charge of the activity	Head of the Department	IQAC Coordinator	Principal

H.O.D. CHEMISTRY COORDINATOR, IQAL PRINCIPAL
Shri. G. M. Vedak Pratishthan's Shri. G. M. Vedak Pratishthan's
G.M. Vedak College of Science G.M. Vedak College of Science Vedak College of Science
Tala-Raigad, Pin-402 111.

Tala-Raigad, Pin-402 111 Tala-Raigad, Pin-402 111.

Shri. Gopinath Mahadev Vedak Pratishthan's

G. M. Vedak College of Science Tal Raigad.

Department of Chemistry **Academic Year 2018-19**

Title: Guest Lecture in the Subject of Analytical Chemistry

Date 22/11/2019

Time 11.00 am

Vane: Seminar Hall

Class: M.Sc.

Introduction:

The Department of Chemistry recently hosted a guest lecture by Dr.Vilas R Jadhavar, an esteemed expert in Analytical Chemistry. The lecture aimed to delve into cutting-edge research and advancements within the realm of chemistry, providing students and faculty with valuable insights into emerging trends and methodologies.

Lecture Content:

1] Overview of Analytical Instruments:

- Introduction to analytical chemistry and the importance of instrumentation.
- Classification of analytical instruments based on their operational principles (e.g., spectroscopic, chromatographic, electrochemical, and thermal analysis instruments).

2] Spectroscopic Techniques:

- UV-Visible Spectroscopy: Principles, instrumentation, and applications in determining the concentration of substances.
- Infrared Spectroscopy (IR): Fundamentals, types of IR instruments (e.g., FTIR), and its use in identifying functional groups in organic compounds.
- Nuclear Magnetic Resonance (NMR) Spectroscopy: Basics of NMR, interpretation of spectra, and applications in structural elucidation of organic compounds.

3] Chromatographic Techniques:

- Gas Chromatography (GC): Principles, types of detectors (e.g., FID, TCD), and its applications in the separation of volatile compounds.
- High-Performance Liquid Chromatography (HPLC): Overview of HPLC systems, types
 of columns, and applications in pharmaceuticals and biochemistry.

4] Electrochemical Techniques:

- Potentiometry: Principles and applications of ion-selective electrodes.
- Voltammetry: Types (e.g., cyclic voltammetry), instrumentation, and its use in trace analysis.

Conclusion:

In conclusion, Dr. Vilas R Jadhavar guest lecture was a resounding success, offering invaluable insights into the forefront of chemistry research and practice. The session not only expanded attendees' knowledge base but also inspired further exploration and inquiry into the discussed topics. The Department of Chemistry extends its gratitude to Dr. Vilas R Jadhavar for their enlightening contribution to our academic community.

Photographs









M.Sc.
Coordinator

Head

Department Chemistry H.O.D. CHEMISTRY Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 111. Principal

Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 141.



Shri.Gopinath Mahadeo Vedak Pratishthan's

G.M. VEDAK COLLEGE OF SCIENCE

(Affiliated to University of Mumbai)
Accredited "B+" Grade by NAAC

At & post - Tala, Taluka - Tala, Dist - Raigad, 402 111.
TEL: 02140 269008, Email: gmvtala@ymail.com, Website: www.gmvcs.org.in.



Date: 22/11/2019

Notice

All the students of M.Sc. organic chemistry are hereby informed that there is guest lecture organize by the department on the topic "Guest Lecture in the Subject of Analytical Chemistry" 22/11/2019 at 11 am., all the students are requested to remain present for the same.

H.O.D. CHEMISTRY Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 111. (ESTD. 2009)

Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 111.





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Date 18/11/2019

To,

Dr. Vilas R. Jadhavar

Assistant Professor.

K.E.S. Anandibai Pradhan Science College,

Nagothane-402125.

Dear Sir,

I take immense pleasure in inviting you to delivered a lecture on the topic "Guest Lecture in the Subject of Analytical Chemistry" 22/11/2019 at 11 am. Your expertise and insights would greatly benefit our M.Sc. part-1 students, and we sincerely hope you can join us. Please consider this letter as a humble invitation.

ollege

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Hoping for similar co-operation in future.

Thanking You,

H.O.D. CHEMISTRY Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science

Tala-Raigad, Pin-402 111.

G.M. Vedak College of science, Tala - Raigad

Class - M.Sc. (Past I), grademic year - 2019-20

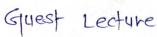
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G.M. Vedak College of Science, Tala-Raigad

class - M.Sc. (Part-II), Academic Year- 2018-20





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Activity Report Academic Year 2018-19

Taigad

Guest Lecture		
G. M. Vedak College of Science, Tala Raigad		
28/11/2019		
Department of Chemistry		
Dr. Sachn V. Bangale		
Dr. Harichandra A. Parbat Assistant Professor, Wilson College, Chowpatty, Mumbai.		
M.Sc. Part I Physical Chemistry Students		
To understand the Basic Concepts in Physical chemistry.		
Students: 20 Teachers: 04		
Students can learn about the Molecular spectroscopy and Fundamental of Quantum Chemistry.		
NA		

Proof Attached

- 1. Report
- 2. Invitation Letter.
- 3. Notice
- 4. Photos

In-charge of the activity

Head of the Department COORDINATOR, IQAL PRINCIPAL

Head of the Department COORDINATOR, IQAL PRINCIPAL
Shri. G. M. Vedak Pratishthan's G. M. Vedak Pratishthan's G. M. Vedak College of Science M. Vedak College of Science Tala-Raigad, Pin-402 111.

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RO/No. GMVC/ 190 /2019-20

Date: 27/11/2019

To,

Dr. Harichandra A. Parbat

Assistant professor

Wilson College, Chowpatty,

Mumbai

Respected sir,

It is a matter of utmost delight for the undersigned to express our gratitude for heaving accepted our invitation and worked as a visiting faculty for engaging M. Sc. Part- I, Semester- I Physical Chemistry lectures in our college on 28th November, 2019.

Hoping for similar co-operation in future.

Thanking you,

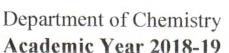
PRINCIPAL

Dr. Vijay M. Sarode

M.Sc (Stats.), C.P.S., Ph.D. (Stats.), D.Litt. (Hon.)

Shri. Gopinath Mahadev Vedak Pratishthan's

G. M. Vedak College of Science Tal Raigad.





Guest Lecturer Report: Guest Lecturer in the subject Physical Chemistry

Date: 28/11/2019

Time: 11.00 am

Vane: Seminar Hall

Class: M.Sc. Part I

Lecturer: Dr. Harichandra A. Parbat,

Assistant Professor, Wilson College, Chowpatty, Mumbai.

Location: Department of Chemistry, G. M. Vedak College of Science Tala, Raigad.

Introduction

This report summarizes the key aspects of the recent guest lectures delivered in the subject of Physical Chemistry. The lectures aimed to enhance students' understanding of advanced topics and current research trends in the field.

Lecturer Profile

Dr. Harichandra A. Parbat, a renowned Physical Chemist with over 15 years of research and teaching experience, delivered the lectures **Dr.** Harichandra A. Parbat holds a Ph.D. in Physical Chemistry and has published extensively in peer-reviewed journals.

Lecture Topics

The guest lectures covered the following topics:

- Thermodynamics: Detailed discussions on the laws of thermodynamics, Gibbs free energy, and phase equilibria.
- Quantum Chemistry: Introduction to quantum mechanics, atomic and molecular orbitals, and their applications in chemical bonding.
- Spectroscopy: Fundamentals of spectroscopy, including UV-Vis, IR, NMR, and their uses in identifying molecular structures.
- Statistical Mechanics: Basics of statistical mechanics, distribution functions, and their relevance to thermodynamic properties.

Student Engagement

Dr. Harichandra A. Parbat employed various strategies to engage students:

- Interactive Discussions: Encouraged questions and facilitated discussions to deepen understanding,
- Case Studies: Presented real-world applications and case studies to illustrate complex concepts.

Benefits

The guest lectures offered several benefits:

- Enhanced Understanding: Students gained deeper insights into complex topics through expert explanations.
- Exposure to Research: Dr. Harichandra A. Parbat shared her research experiences, inspiring students to explore research opportunities.
- **Networking:** Students had the opportunity to connect with a leading expert in Physical Chemistry, potentially aiding their future academic and career endeavors.



M.Sc. Coordinator

Escureh 2

Head Department Chemistry

H.O.D. CHEMISTRY Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 111. Principal

PRINCIPAL Shri. G. M. Vedak Pratishthan's G.M. Vedak College of Science Tala-Raigad, Pin-402 111. Shri.Gopinath Mahadeo Vedak Pratishthan's



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Date: 23/11/2019

Notice

All the students of M.Sc. organic chemistry are hereby informed that there is guest lecture organize by the department on the topic "Guest Lecture in the Subject of Physical Chemistry" 28/11/2019 at 11.00 am., all the students are requested to remain present for the same.



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class-Mosc, (org. chem). I

-Academic year - 2018-19

Subject Name - physical chemistry

Topic Name - "quest Lecture in the subject of physical chemistry"

Date - 28/11/2019

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