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CIRCULAR

It is here by informed to all the students of School of Science, Sandip University, that the department of Microbiology is organizing a workshop “Workshop given by Alumni” on 09th July 2022 at 10:00 am.

All the Students and Faculties are requested to join the program in time.

School of Science
Sandip University Nashik
Maharashtra-422 213

Associate Dean

Associate Dean
School of Science
Sandip University Nashik

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Sandip University, Nashik (MS), India

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WORKSHOP THROUGH ALUMNA

SCHOOL OF SCIENCE

DEPARTMENT OF

MICROBIOLOGY

Academic Year: 2022-23

Date: 09th July 2022

Duration: 1 hr

Speaker: Ms. Vishakha Tomar

Audience: Microbiology Department Students, School of Science, Sandip University, Nashik

Event Coordinator: Prof. Dr. Razia Kutty, Dept of Microbiology and Life Science, Sandip University, Nashik

Email: razia.kutty@sandipuniversity.edu.in

Outline of Program:

Department of Microbiology had organized the Hands on Training Workshop for Laboratory Instruments and alumna of Microbiology department Ms. Vishakha Tomar, given talk to students regarding instruments.

Objective of Program:

The Workshop through alumna was arranged for the students to enlighten them the operation and handling of various Research instruments.

Objective:

- To provide students with insights into the diverse career paths available in the field of Chemistry.
- To expose students to real-world industry experiences and challenges.

- To inspire students to pursue their career goals with passion and dedication.

The School of Science at Sandip University organized an enlightening Alumni Talk by Ms. Vishakha Tomar, a distinguished microbiology professional, to guide and mentor the current batch of microbiology students. The session aimed at providing students with an in-depth understanding of microbiological instruments, their applications in research and industry, and how to effectively use them in their academic and professional pursuits.

Ms. Tomar, an alumnus of the university, shared her expertise gained during her time at Sandip University and her professional journey in the field of microbiology. With a focus on practical applications, the talk was designed to bridge the gap between theoretical knowledge and real-world laboratory experiences.

Ms. Vishakha Tomar's Speech

Ms. Tomar began her talk by sharing her experiences as a student at Sandip University. She recalled how the theoretical and practical exposure she received in microbiology classes laid the foundation for her current career. She highlighted the importance of hands-on learning and how the training and skills gained during college helped her adapt to the challenges of working in a laboratory and research environment.

She then moved on to the main focus of her session: **microbiological instruments**. Ms. Tomar explained the various instruments that are integral to microbiology laboratories, detailing their functions, applications, and the role they play in research, diagnostics, and clinical practice.

- To foster networking opportunities between current students and successful alumni.

Photos of Event



Photo of Ms Vishakha explaining students

- **Microbiological Instruments and Their Applications:**
 - Ms. Tomar provided an overview of essential microbiology instruments such as **microscopes**, **autoclaves**, **incubators**, **spectrophotometers**, and **PCR machines**. She elaborated on how these tools are used to analyze microorganisms, culture cells, and conduct research.
 - She emphasized the importance of understanding the functionality and maintenance of each instrument, as well as the need for proper calibration and operation to ensure accurate results.
 - She explained how these instruments are pivotal in various microbiological tasks, including pathogen detection, microbial resistance testing, and genetic research.
- **Hands-on Learning:**
 - Ms. Tomar strongly encouraged students to make the most of practical sessions in the laboratory. She advised them to approach their professors and lab assistants to clarify doubts and understand the proper usage of each tool.
 - She shared her own experiences of learning from her hands-on work in college labs, stressing the significance of practice to build confidence and mastery over the equipment.
- **Industry Relevance:**
 - Ms. Tomar provided insights into the importance of these instruments in the industry, specifically in **pharmaceutical**, **biotechnology**, and **healthcare sectors**. She discussed how these tools are critical for the production of vaccines, antibiotics, and diagnostic kits, and how understanding them opens up various career opportunities for microbiology graduates.

- She also talked about **emerging technologies** in microbiology, including automated systems and next-generation sequencing technologies, and how they are transforming the field.
- **Soft Skills and Research Methodology:**
 - In addition to technical skills, Ms. Tomar highlighted the importance of soft skills, including **communication** and **teamwork**, when working in laboratory settings. She explained that effective collaboration and clear communication with colleagues are essential in conducting successful research and experiments.
 - She also shared tips on **research methodology**, advising students to approach their studies with curiosity and precision. She emphasized the importance of developing critical thinking skills to analyze experimental data and draw accurate conclusions.
- **Career Opportunities and Guidance:**
 - As an experienced professional in the microbiology field, Ms. Tomar discussed the various career paths available for microbiology graduates. She encouraged students to explore diverse roles in research, quality control, diagnostics, and even teaching.
 - She also stressed the value of **internships** and gaining work experience during their academic journey to increase employability and gain exposure to real-world applications.

Interaction with Students

After the session, Ms. Tomar engaged with students during an interactive Q&A. The students asked insightful questions regarding the advanced applications of certain microbiological instruments and career options within the microbiology field. Ms. Tomar provided detailed responses, offering guidance on how to pursue specialization in areas such as clinical microbiology, industrial microbiology, and molecular biology.

Conclusion

Ms. Vishakha Tomar's Alumni Talk was an immensely valuable experience for the microbiology students of the School of Science at Sandip University. Her detailed explanation of microbiological instruments and their applications, coupled with her insights into career paths, has equipped students with the knowledge to better understand their field of study and the opportunities available to them in the future. The students left the session feeling motivated and more knowledgeable about the practical aspects of microbiology, and were inspired to further enhance their skills in the laboratory. The talk was a perfect blend of academic knowledge and professional guidance, and the students expressed their gratitude for the session.

The event concluded with a vote of thanks to Ms. Tomar for taking time to share her expertise and guide the next generation of microbiologists.



Associate Dean