

DEPARTMENT OF MICROBIOLOGY  
under the aegis of IQAC

presents

**ONLINE  
ENTREPRENEURSHIP  
&  
FACULTY DEVELOPMENT  
PROGRAM**

**EDIBLE MUSHROOMS - FROM LAB TO FARM**



SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN  
UNIVERSITY OF DELHI  
VASUNDHARA ENCLAVE  
DELHI - 110 096

## **ABOUT THE COLLEGE**

Shaheed Rajguru College of Applied Sciences for Women, affiliated to University of Delhi and funded by Govt. of NCT of Delhi was established in the year 1989. It offers bachelor's degree in 14 courses related to science , applied sciences , arts and management. The college has about 1400 students at present hailing from different parts of the country. The college gives its students opportunity to excel in sports and cocurricular activities as well.

## **ABOUT THE DEPARTMENT**

The Department of Microbiology started functioning in the college from the academic session 2017-18. Among the many reasons to study microbiology is to gain basic knowledge of the field needed to pursue careers in industries and research concerning Medical Science, Ecology, Agriculture, Pharmaceutical Sciences, Diagnostics, Aquatic and Food Microbiology, and Biotechnology, among many others. The vision of the microbiology department is to educate and train students in the discipline of microbiology and to expand the body of knowledge of this scientific field through active research. The department aims at creating awareness and sensitizing common man through social outreach programs about the importance of microorganisms affecting each one of us.

## INTRODUCTION

Edible mushrooms are a fascinating diverse group of Basidiomycetous fungi. The various types of edible mushrooms are Agaricus (Button mushroom), Pleurotus (Oyster mushroom), Lentinula (Shiitake mushroom), Auricularia (Ear Fungus), Volvariella (Paddy straw fungus) and milky mushroom.

Edible mushroom are a rich source of

- Proteins
- Fibers
- Vitamin D
- Anti-oxidants

They are also involved in strengthening the immune system. They are good for many diseases like diabetes and hypertension. They are also wonder food for weight loss being essential part of keto diet.

The market for mushrooms is growing owing to their culinary, nutritional and health benefits. They also offer an additional benefit in waste management as many types of organic wastes from crop production and food industry can be used as substrate for mushroom production. Thus, mushroom cultivation can essentially become a part of sustainable agricultural system.

Mushroom cultivation requires an expertise to get the desired end product. This FDP intends to impart knowledge and skill sets about growing various types of mushrooms. This will facilitate the attendees to successfully cultivate mushrooms. The objective of the FDP is to train the participants in the technique of mushroom cultivation which can give them opportunity of entrepreneurship in future.

## **KEY OBJECTIVES**

- Skill development for pilot scale mushroom farming / setting up of mushroom house at home.
- Entrepreneurship/Social outreach /Employment generation
- To popularize mushroom consumption to fight malnutrition and dispel myths
- Research scope  
(medicinal/nutritional/antimicrobial/anti-inflammatory)

## **OUTCOMES**

- Learn how to grow mushroom (Compost development, spawning, casing, harvesting)
- Learn anatomy and life cycle of different edible mushrooms
- Learn techniques to handle mushroom cultivation
- Employment/entrepreneurship model

# PROGRAM SCHEDULE

Date : 15th Feb 2021 - 19th Feb 2021

Timings : 3pm onwards

## **TIMINGS**

### **15-02-2021**

- 3.00- 3.15 pm** Program Overview: Dr. Rekha Mehrotra (Program Coordinator)
- 3.15- 3.30 pm** Inaugural address by Dr. Payal Mago, Principal, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi
- 3.30- 4.30 pm** Address by Guest of Honor, Dr. B. L Dhar, NN Mushroom Consulting, India, on *Introduction to the world of Mushrooms*
- 4.30- 4.45 pm** Talk by Dr. Shruti Banswal, Assistant Professor, Department of Biomedical Science, Shaheed Rajguru College of Applied Sciences For Women on *Biology of Mushrooms*.
- 4.45-5.15 pm** Q/A Session

### **16-02-2021**

- 3.00- 4.00 pm** Talk by Dr. S. C. Karunarathana, Post-doctoral Research Fellow at CAS Key Laboratory for Plant Diversity and Biogeography of East Asia, Kunming Institute of Botany, Chinese Academy of Science, China on *New Edible Mushrooms from Discovery to Productions*.
- 4.00- 5.00 pm** Talk by Dr. Rajni Gupta, Associate Professor, Department of Botany, Kirori Mal College, University of Delhi on *Edible Mushrooms: Pleurotus*
- 5.00- 5.30 pm** Q/A Session

### **17-02-2021**

- 3.00- 4.00 pm** Talk by Dr. Parveen Garg, Principal, Swami Shraddhanand College University of Delhi on *Growing Button Mushroom*
- 4.00- 5.00 pm** Talk by Dr. Surinder Kaur, Associate Professor, Department of Botany, SGTB Khalsa College, University of Delhi on *Cultivation of Milky Mushroom*.
- 5.00- 5.30 pm** Q/A Session

### **18-02-2021**

- 3.00- 4.00 pm** Talk and training aspects by Dr. Ajay Singh, Registrar, Maharana Pratap Horticulture University, Karnal on *Mushroom Production and Skill Development*
- 4.00- 5.00 pm** Talk and training aspects by Ms. Monika D Chowdhury, Founder, The Mushroom Hub, Sohna Road, Gurgaon on *Making Room for Mushroom*
- 5.00- 5.30 pm** Q/A Session

### **19-02-2021**

- 3.00- 4.15 pm** Talk and training aspects by Mr. Anurag Saxena, Founder Director, Milky Way Mushroom Spawn on *Commercial Aspects of Growing White Button Mushrooms*
- 4.15- 4.45 pm** Q/A Session
- 4.45 pm- 5 pm** Virtual Tour of Mushroom facility at Shaheed Rajguru College of Applied Sciences for Women, University of Delhi
- 5 pm- 5.30 pm** Valedictory Session

## **REGISTRATION FEES**

Faculty Members.....	Rs. 500/-
General participants.....	Rs. 500/-
Students.....	Rs. 200/-

(Limited seats)

Paytm is the acceptable mode of payment.

- Please visit [www.rajgurucollege.com](http://www.rajgurucollege.com)
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- Select your Institute's Area **STUDENT SOCIETY**
- Enter 2021 - in college roll number.
- Fill all information and amount
- Fill FDP in the remarks.
- Proceed.

Last date of registration is 14th Feb 2021, 1PM

Registration link <https://forms.gle/dEntj11L8SszEL3U9>

## **PROGRAMME COMMITTEE**

Dr. Payal Mago (Principal).....	Patron
Dr. Rekha Mehrotra.....	Convenor
Dr. Kohinoor Kaur.....	Organizing member
Dr. Richa Sharma.....	Organizing member
Dr. Yamini Agrawal.....	Organizing member
Dr. Nitin Chauhan.....	Organizing member
Ms. Aarti Yadav.....	Organizing member
Dr. Pooja Bhadoriya.....	Organizing member

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