



Sevadal Shikshan Sanstha, Nagpur

**SEVADAL MAHILA MAHAVIDYALAYA**

NAAC Re-Accredited With 'A' Grade

Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur - 440 024 (M.S.)

**Dr. Pravin Charde**  
M.Sc., Ph.D.

Principal

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## Certificate

3.2.2

Provide detailed report for

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photograph with date and captions; title of the workshops / seminars conducted signed by competent authority.



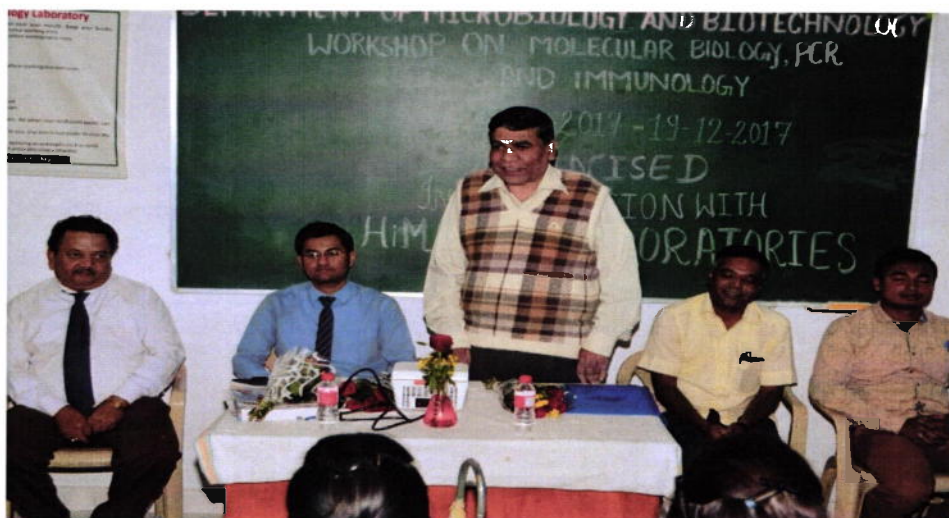
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Sakkardara Square, Umrer Road, Nagpur

**Report of Workshop on**  
**'Molecular Biology & Immunology'**



*Jointly Organized By*

**Department of Microbiology**  
**And**  
**Hi-Media Laboratories Private Limited, Mumbai**

Academic Session: 2017-2018

Workshop on 'Molecular Biology & Immunology' 2017-18



1

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## Report of Workshop on Molecular Biology, Immunology and PCR

Date of organizing Workshop	18 <sup>th</sup> & 19 <sup>th</sup> December 2017
Name of the Department	Microbiology & Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur
Academic Session	2017-2018
Number of students Participated	66

### Aims and Objective of the Workshop:

To address a growing need to make students well acquainted and comfortable with the tools of molecular biology, it is very important for Microbiology and Biotechnology professionals and students to gain fundamental knowledge of molecular biology and immunological techniques. Therefore to accomplish professional and academic developments of students, Department of Microbiology and Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur organized two days workshop for hands-on training in Molecular Biology & Immunology in collaboration with Hi-Media Laboratories Private Limited, Mumbai on 18<sup>th</sup> and 19<sup>th</sup> December 2017. The objective of the training programme through organizing workshop is to give exposure to the students to concept, skills and tools of molecular biology and immunology and to provide hands-on training on various molecular biology and immunological techniques by a technical expert from Hi-Media Laboratories Pvt. Ltd. Mumbai.

### Glimpses of the Activities undertaken in the Workshop:

Workshop on hands-on training in Molecular Biology & Immunology was offered over a period of two days and was organized so that comprehensive background lectures coupled with extensive hands-on experience were provided to the students and new staff members as well. The workshop was divided into several modules such as techniques such as isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, Polymerase chain reaction (PCR), single radial immunoelectrophoresis, preparation of different types of buffers used in molecular biology. Each module was taught by an expertise in the area covered in the workshop. Each module began with a lecture that introduced the technique in describing both the uses and applications of that particular technique.



A handwritten signature in blue ink, appearing to be 'S. J.', is written over the Principal's name.

The lectures were followed by a laboratory session during which students followed protocols that were carefully designed to learn the objective of the techniques. Throughout these laboratory sessions, students were given an importance of proper technique of handling different apparatus and equipments like micropipettes, cold micro centrifuges, gel electrophoresis units, uv-transilluminator etc, preparation of standard buffer solutions and accuracy in weighing of chemicals and pipetting of solutions.

In these workshop 66 students of B. Sc. SEM V Microbiology and Biotechnology participated and undergone training in the basic techniques of Molecular biology, Immunology and PCR. Hands on training on techniques such as isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, PCR, single radial Immuno-diffusion electrophoresis, preparation of different types of buffers used in molecular biology were given to the students. Students were provided with the participation certificates after successful completion of the workshop.

Students should be geared up the technically sound knowhow for more avenues in the field of Microbiology and Bio-technology' said Mr. Singh, Marketing Manager, Hi-Media Laboratories, and Mumbai. He was speaking as the Chief Guest at the inaugural function of Two Days Workshop on Molecular Biology, Immunology and PCR (Polymerase Chain Reaction). Further in his address he said that in the era of globalization students should get well equipped with latest knowledge and technical skill in highly sophisticated experiments on Genomic and Plasmid DNA isolation, Restriction and Digestion procedures of bacterial DNA and various critical reactions of antigen and antibodies to diagnose the various known and unknown diseases of humans.

Mr. Swapnil Tank, Product Executive, assisted to the students for technical knowhow of the complexity of reactions occurs in the analysis of DNA and Antigen-Antibody Reactions and Polymerase Chain Reactions of DNA.

Hon'ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur presided over the function, in his presidential address Hon'ble Dr. Pravin Charde, Principal, expressed his happiness over the hands on training and workshop. He particularly reiterated that every student participant take advantage of varieties of



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experiments which would be very useful in their further higher studies and also to get the jobs in their future life.

Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology, in his welcome address, said that the hands on training and workshop on Molecular Biology and Immunology would be very beneficial for the students for their higher studies. Throughout the workshop students have studied to many experiments which usually only conducted in the hi-tech and innovative established laboratories.

Hon'ble Shri Sanjayji Shende, President, Sevadal Education Society, Nagpur has always encourages to conduct such training and workshop for the benefit of students and his best wishes are always with us.

The workshop was concluded in high note with valedictory function where workshop certificates issued by Multi-National Company with ISO 9001-2008 and internationally recognized by WHO-GMP and CE were distributed to the participant students. These certificates would prove very helpful to the students in securing hi-end jobs in the field of Microbiology and Biotechnology.

Mrs. S. R. Nimbarte, Dr. (Mrs.) K. V. Dubey, Ms. Mili Thakkar, Mr. Rahul Bhende, Ms. Kanchan Mohod and non teaching staff of the department of Micro-Biology and Bio-Technology took every hardship for the grand success of the hands on training and workshop.



Hon'ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur being welcomed by the student during the inaugural function of the workshop on Molecular Biology, Immunology & PCR held on 18<sup>th</sup> & 19<sup>th</sup> December 2017



Hon'ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur giving his Presidential address during the inaugural function of the workshop on Molecular Biology, Immunology & PCR



Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology, welcomed the student and introduced the students about the importance of organizing workshop on Molecular Biology, Immunology & PCR





Mr. Swapnil Tank, Technical expert from Hi-Media Laboratories Pvt. Led Mumbai being felicitated by the student.



Mr. Swapnil Tank, Technical expert from Hi-Media Laboratories Pvt. Led Mumbai explaining significance of hands on training to the students .



Mr. Singh, Marketing manager from Hi-Media Laboratories Pvt. Led Mumbai Chief Guest of the workshop on Molecular Biology, Immunology and PCR giving Certificate to the student after successful completion of the workshop



Certificate Distribution Ceremony at the hands of Hon'ble Principal, and Faculty members after successful completion of the workshop on Molecular Biology, Immunology & PCR organized by Department of Microbiology, Sevadal Mahila Mahavidyalaya, and Nagpur.



Press Note of the workshop on Molecular Biology, Immunology & PCR organized by Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur was published in The Hitavada City Line News daily.





Sevad Education Society's

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## REPORT OF WORKSHOP ON FOOD PRESERVATION

2017 - 2018



ORGANIZED BY

Faculty of Home Science

Department of Food and Nutrition

Principal  
Sevad Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



Sevadal Mahila Mahavidyalaya and Research Academy, a renowned educational Institute was established in 1992, under the Founder President Shri Kesharaoji Shende with the noble mission of imparting education to girl students. Education to women can change not only their lives but also of their entire family is a well-known proverb and the said cause is a mission of the Institution. Presently, institution is marching ahead under the dynamic leadership of our President Hon'ble Shri Sanjayji Shende, by his administrative prowess and radical methods, spearheaded the institution to its glorious achievements. At present, the college has been re-accredited by NAAC, Bangalore with 'A' Grade. The college offers various programmes in the faculties of Science, Home Science and Social Science at Under-graduate and Post-graduate level. The college offers Doctoral research programmes in subjects Environmental Science, Zoology, Chemistry and Microbiology.

## **INTRODUCTION**

Millions of fruits and vegetables are produced each year and they are lost due to poor processing and preservation. Fresh fruits are abundant during the season and are not available during the off season. Due to this the food has to be stored until the next season. Hence all fresh foods have to be preserved if it is to be used after a period of time. Food production and supply does not always tally with the demand or needs of the people. In some places, there is surplus production of food product, whereas in some other place there is inadequate supply. It is therefore important to improve and expand facilities for storage and preservation of food to ensure its availability and acceptability at all times. The Department of Food and Nutrition of the college had organized a workshop on Food Preservation for the students of B.Sc. (Home Science) Semester IV from 29/01/18 to 2/02/2018.

## **AIMS AND OBJECTIVES**

1. To teach the students the basics of food preservation.
2. To impart knowledge about the science and techniques of fruit and vegetable preservation.
3. To equip the students with skills required for preservation of ketchup, squash, jam, sauce and chutney.

## **INAUGURAL FUNCTION**

The college organized a five-day workshop on "Food Preservation" from 29<sup>th</sup> January 2018 to 2<sup>nd</sup> February 2018 under the Department of Food and Nutrition. On the onset of inaugural



  
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function Dr. Mrs. Meghali M. Johrapurkar welcomed the guests and students and foregrounded the theme of the workshop.

The guests of the inaugural function, Mrs. Anjali Singh and Mr. Niranjana Choudhari, Demonstration Officers, from Ministry of Women and Child Development, Government of India, Community Food and Nutrition Education Unit, Nagpur presided over the function. Dr. Johrapurkar delivered the introductory address and then the demonstrator officer Mrs. Singh addressed the students of the workshop. She highlighted the need of food preservation in today's food supply chain and stressed upon the reduction of food wastage through different preservation methods.

### **WORKSHOP SESSION**

Sixty-two students from B.Sc. (Home Science) Semester IV participated in the workshop. Mrs. Anjali Singh threw light on basic purpose of fruit and vegetable preservation and elaborated on the particulars of preservation and preparation of recipes of jams, jellies, pickles, sauces, ketchups, chutneys and candies. She explained some of the methods which are usually adopted for preserving food and vegetables like dehydration, preservation with salt, sugar, vinegar and chemical preservatives.

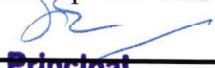
After giving elaborative information on the subject, she gave some basic instructions regarding the conduct and hygiene during the workshop to the students. After this the pre-preparations for the different demonstration were carried out by the students under the guidance of Mr. Choudhari.

For all demonstrations a theoretical session was conducted where the ingredients and method of recipes were discussed. Then the recipes of jams, jellies, pickles, sauces, chutneys and candies were demonstrated. Mrs. Singh also explained the students about the plate test of jams and jellies during the demonstration.

### **VALEDICTORY FUNCTION**

The guest of the function Mrs. Singh and Mr. Choudhari were the guests of the valedictory function. Dr. Mrs. Meghali M. Johrapurkar welcomed the guests with saplings. Mr. Choudhari exclaimed that the workshop is of immense importance, as students get acquainted with hands on training and skills required for preparation of jams, jellies, pickles, sauces, chutneys and candies. As a mark of participating in workshop the students were given



  
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certificates for successfully attending and taking part in the workshop. On behalf of College and Department Dr. M. Johrapurkar proposed a vote of thanks.




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**LIST OF PARTICIPANTS**

Sr. No.	Name of Participants	Name of the College
1	Ku. Aishwarya Shivkumar Mandhare	Sevadal Mahila Mahavidyalaya
2	Ku. Ansari Nafela Gulrakh Sajid Parvej	Sevadal Mahila Mahavidyalaya
3	Ku. Archana Devidas Raut	Sevadal Mahila Mahavidyalaya
4	Ku. Baig Nausheen Tabassum Riyaz	Sevadal Mahila Mahavidyalaya
5	Ku. Bushra Anam Ansari Mohd Saleem Ansari	Sevadal Mahila Mahavidyalaya
6	Ku. Deepa Dayaram Motghare	Sevadal Mahila Mahavidyalaya
7	Ku. Divya Dilip Nagrale	Sevadal Mahila Mahavidyalaya
8	Ku. Humera Parveen Mohammad Rafique	Sevadal Mahila Mahavidyalaya
9	Ku. Kajal Ashok Bandewar	Sevadal Mahila Mahavidyalaya
10	Ku. Komal Ankush Dange	Sevadal Mahila Mahavidyalaya
11	Ku. Krushna Mahesh Rathi	Sevadal Mahila Mahavidyalaya
12	Ku. Krutika Pradeep Nanotkar	Sevadal Mahila Mahavidyalaya
13	Ku. Payal Rajeshrao Harde	Sevadal Mahila Mahavidyalaya
14	Ku. Laxmi Arun Gawande	Sevadal Mahila Mahavidyalaya
15	Ku. Manjusha Dhanraj Buradkar	Sevadal Mahila Mahavidyalaya
16	Ku. Megha Govind Meshram	Sevadal Mahila Mahavidyalaya



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17	Ku. Minal Anandrao Kuhikar	Sevadal Mahila Mahavidyalaya
18	Ku. Mona Ramesh Ingale	Sevadal Mahila Mahavidyalaya
19	Ku. Natasha Rameshwar Tikle	Sevadal Mahila Mahavidyalaya
20	Ku. Neha Amit Patil	Sevadal Mahila Mahavidyalaya
21	Ku. Neha Shankar Sahu	Sevadal Mahila Mahavidyalaya
22	Ku. Nidhi Prakash Sukhadeve	Sevadal Mahila Mahavidyalaya
23	Ku. Niharika Prabhakar Shinde	Sevadal Mahila Mahavidyalaya
24	Ku. Nikita Mitaram Awarkar	Sevadal Mahila Mahavidyalaya
25	Ku. Nikita Rajesh Shingare	Sevadal Mahila Mahavidyalaya
26	Ku. Nikita Subhash Harde	Sevadal Mahila Mahavidyalaya
27	Ku. Nupur Nandkishor Lokhande	Sevadal Mahila Mahavidyalaya
28	Ku. Pallavi Avilrao Nimbalkar	Sevadal Mahila Mahavidyalaya
29	Ku. Pallavi Rustam Bhoyar	Sevadal Mahila Mahavidyalaya
30	Ku. Payal Pramod Gadkari	Sevadal Mahila Mahavidyalaya
31	Ku. Payal Shikharchand Soneshwar	Sevadal Mahila Mahavidyalaya
32	Ku. Pooja Sopan Dhamdhere	Sevadal Mahila Mahavidyalaya
33	Ku. Pragati Natthuji Hatwar	Sevadal Mahila Mahavidyalaya
34	Ku. Priyanka Ganesh Jamodkar	Sevadal Mahila Mahavidyalaya
35	Ku. Priyanka Pravir Nandi	Sevadal Mahila Mahavidyalaya
36	Ku. Pushpa Krishnaroa Bhoware	Sevadal Mahila Mahavidyalaya
37	Ku. Radhika Maroti Wagh	Sevadal Mahila Mahavidyalaya
38	Ku. Ravina Ganesh Meshram	Sevadal Mahila Mahavidyalaya



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39	Ku. Ruhi Munishwar Shende	Sevadal Mahila Mahavidyalaya
40	Ku. Ruhali Vitthalrao Jikar	Sevadal Mahila Mahavidyalaya
41	Ku. Rupa Nagoji Bagade	Sevadal Mahila Mahavidyalaya
42	Ku. Rupali Arun Lahore	Sevadal Mahila Mahavidyalaya
43	Ku. Rupali Moreswar Kalaskar	Sevadal Mahila Mahavidyalaya
44	Ku. Sahili Vasantao Raut	Sevadal Mahila Mahavidyalaya
45	Ku. Sana Kausar Mohammad Ashraf	Sevadal Mahila Mahavidyalaya
46	Ku. Sharda Muniraj Sahare	Sevadal Mahila Mahavidyalaya
47	Ku. Shrutika Rajesh Lakhe	Sevadal Mahila Mahavidyalaya
48	Ku. Shubhangi Jivanraoji Dhoble	Sevadal Mahila Mahavidyalaya
49	Ku. Shweta Dayaram Motghare	Sevadal Mahila Mahavidyalaya
50	Ku. Snehal Kawdu Bagane	Sevadal Mahila Mahavidyalaya
51	Ku. Sonu Ashok Dhuldhule	Sevadal Mahila Mahavidyalaya
52	Ku. Sonu Tulshiram Meshram	Sevadal Mahila Mahavidyalaya
53	Ku. Sweta Dayaram Sawarbandhe	Sevadal Mahila Mahavidyalaya
54	Ku. Tanvi Ramanuja Soma	Sevadal Mahila Mahavidyalaya
55	Ku. Tanzil Fatima Abdul Razzak	Sevadal Mahila Mahavidyalaya
56	Ku. Tejaswini Lavkush Harde	Sevadal Mahila Mahavidyalaya
57	Ku. Tejaswini Sanjay Bhagat	Sevadal Mahila Mahavidyalaya
58	Ku. Urvashi Shekhar Waghmare	Sevadal Mahila Mahavidyalaya
59	Ku. Utkarsha Bhojraj Hajare	Sevadal Mahila Mahavidyalaya
60	Ku. Vaibhavi Bharatrao Shrawankar	Sevadal Mahila Mahavidyalaya



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**Workshop on**  
**'Tie and Dye' Printing**

**Organized by**  
**Department of Textile and Clothing**

**Session: 2017-2018**

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**Report on  
Workshop on Tie and Dye Printing**

Name of the Department	: Textile and Clothing
Date of workshop	: 30 & 31 Jan.2018
Name of the Guest	: Mrs. Bharti Wakde Time : 10.00 am. To 3.00pm
Title of the work- shop	: Workshop on <b>Tie and Dye Printing.</b>


The Department of Textile & Clothing conducted a workshop on **Tie and Dye Printing**. Sixty students from B.Sc. IInd year (H.Sc.) participated in this workshop on 30 & 31 Jan.2018. The workshop was conducted in association with pidilite industry, Mrs. Bharti Wakde Professional Expert, Fevicryl, Nagpur of the company was invited to guide the students.

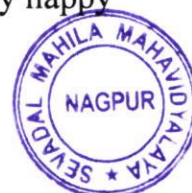
**AIMS AND OBJECTIVES:**

- To develop the entrepreneurial skills by organizing workshop.

She shared with the students the tricks of Tie and Dye printing the fabric indifferent ways. She demonstrated the technique and involved the students in an immersive hands-on activity session. Students were able to create beautiful effects on a cotton cloth and made and made vibrant patterns using the tie and dye techniques. They thoroughly enjoyed the workshop and were able to express their creativity through the myriad hues of colour. She also taught, selection of fabric for tie and dye, raw materials required for tie and dye, and preparation of fabric for tie. Total seven to eight types of tying techniques were demonstrated and done by students. She also explained new techniques of Tie and Dye. Method of tying the piece of cloth, dipping in colour, drying and finally dyed samples were dried and opened and fantastic design was obtained.

It was a very innovative and interactive session. Students enjoyed the workshop as they prepared the samples of Tie and Dye. Students were very happy after learning and want to continue it in future.

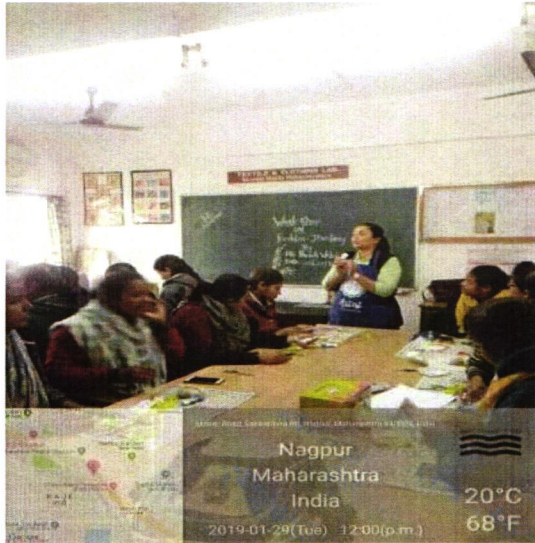
  
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**Outcomes:**

- Students learnt new skills.
- Students got innovative ideas.
- Hands on training motivated students.

**Photo of One Day Workshop**



(Dr. Mrs. Neeta Tiwade)  
Head  
Department of Textile and Clothing  
Sevadal Mahila Mahavidyalaya,  
Nagpur



(Prof. Pravin Charde)  
Principal  
Sevadal Mahila Mahavidyalaya  
Nagpur

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## IPR, RESEARCH METHODOLOGY AND RESEARCH WORKSHOPS

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2017-2018



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## **RESEARCH METHODOLOGY FOR INTELLECTUAL PROPERTY RIGHT LAW 2017-2018**

### **Introduction:**

Sevadal Mahila Mahavidyalaya, Nagpur succeeded in imprinting academic, social and competitive attitude in minds of students through its well qualified faculties and state of art infrastructure. We organize guest lectures, seminars, workshops and conferences to upgrade students' aptitude and Faculty Orientation to broaden their vision. Our endeavor is to create an institute that will provide a space for free and uninhibited thinking, a space where faculty and students can experiment with novel ideas without fear of failure. It is our firm belief that such an ambiance will foster highest level of research in our Institute.

On 28<sup>th</sup> April, 2018 a workshop on **Research Methodology for Intellectual Property Right Law** was conducted by Dr. Sudhakar Shinde, Registrar, BIT, RAK, UAE stated that Intellectual Property is a global subject and explained its essence. He said that for good research, researcher should have done research in his interested area and should also choose the topic of research very carefully. Topic of research must be precise and clear and it should be confine to the objective of research. Further, she described the techniques of doctrinal and non-doctrinal research and explained its essential components like research objectives, scope, problem statements, central argument, research questions, chapterizataion, conclusion and suggestions.

He explained first step in the process of developing a national intellectual property (IP) strategy involves carrying out a baseline survey to ascertain the current status of the IP system, in order to identify areas where the IP system is strong and performing well, and also identify areas where the IP system is weak and needs to be strengthened or reinforced. To assist the baseline survey implementation process, WIPO has developed a baseline survey questionnaire.

The questionnaire is designed to address the following seven cluster categories: 1. Administration and management of IP. 2. Generation of IP by universities, research organizations, businesses, industries, SMEs and individuals. 3. Commercialization of IP and technology transfer by universities, research organizations, businesses, industries, SMEs and individuals. 4. Copyright and copyright industries. 5. Plant variety rights and seed industries. 6. Enforcement of IP rights. 7. IP and public policy. Each cluster section in the baseline survey tool (BST) contains indicators, as well as questions which are designed to assist the process of

reviewing the indicators. The BST is aimed at those directly involved in the operation and use of the national IP system – those who can provide vital information in relation to IP laws, administration, enforcement, relationships with other policies and national objectives, and the creation and/or utilization of IP. Respondents may include government officials who deal with the enactment of IP laws or with the processing of applications for IP rights, IP dispute lawyers, enforcement officials, business support organizations, inventors working in the public sector or the private sector, or business people who use IP in some way. Respondents may also include professionals working in the private sector or in government, and organizations which are involved in the development of innovative business and commerce.

He also explained that patent is an exclusive right granted for an invention<sup>8</sup>. The term “invention” refers to a product or a process that provides a new way of doing something, or offers a new technical solution to a problem. A patent provides the owner of the patent with protection for the invention. The protection is granted for a limited period, generally 20 years. Patent protection means that the invention cannot be commercially made, used, distributed or sold without the patent owner’s consent.









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## Report of Workshop on 'Molecular Biology & Immunology'



*Jointly Organized By*  
**Department of Microbiology**  
**And**  
**Hi-Media Laboratories Private Limited, Mumbai**

**Academic Session: 2018-2019**



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Umrer Road, Nagpur.

Workshop on 'Molecular Biology & Immunology' 2018-19

## Report of Workshop on 'Molecular Biology and Immunology'

Date of organizing Workshop	28 <sup>th</sup> & 29 <sup>th</sup> September 2018
Name of the Department	Microbiology & Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur.
Academic Session	2018-2019
Number of students Participated	92

### Aims and Objective of the Workshop:

Microbiology and Biotechnology professionals and students should gain fundamental knowledge of molecular biology and immunological techniques and to make students well acquainted and comfortable with the tools of molecular biology, Department of Microbiology and Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur organized two days workshop for hands-on training in Molecular Biology & Immunology in collaboration with Hi-Media Laboratories Private Limited, Mumbai on 28<sup>th</sup> and 29<sup>th</sup> September 2018. The objective of the training programme through organizing workshop was to give exposure to the students to concept, skills and tools of molecular biology and immunology and to provide hands-on training on various molecular biology and immunological techniques by a technical expert from Hi-Media Laboratories Pvt. Ltd. Mumbai.

### Glimpses of the Activities undertaken in the Workshop:

Workshop on hands-on training in Molecular Biology & Immunology was offered over a period of two days and was organized so that comprehensive background lectures coupled with extensive hands-on experience were provided to the students and new staff members as well. The workshop was divided into several modules such as techniques like isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, Polymerase chain reaction (PCR), single radial immune diffusion electrophoresis, preparation of different types of buffers used in molecular biology were taught to perform. Each module was taught by an expertise in the area covered in the

Workshop on 'Molecular Biology & Immunology' 2018-19



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workshop. Each module began with a lecture that introduced the technique in describing both the uses and applications of that particular technique. The lectures were followed by a laboratory session during which students followed protocols that were carefully designed to learn the objective of the techniques. Throughout these laboratory sessions, students were given an importance of proper technique of handling different apparatus and equipments like micropipettes, cooling micro centrifuge, gel electrophoresis units, uv-transilluminator etc, preparation of standard buffer solutions and accuracy in weighing of chemicals and pipetting of solutions.

In these workshop 93 students of B. Sc. SEM V Microbiology and Biotechnology participated and undergone training in the basic techniques of Molecular biology and Immunology. Hands on training on techniques such as isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, PCR, single radial Immuno-diffusion electrophoresis, preparation of different types of buffers used in molecular biology were given to the students. Students were provided with the participation certificates after successful completion of the workshop.

‘Students should be geared up the technically sound knowhow for more avenues in the field of Microbiology and Bio-technology’ said Chief Guest of the workshop Mr. Singh, Marketing Manager, Hi-Media Laboratories, Mumbai. Further in his address he said that in the era of globalization students should get well equipped with latest knowledge and technical skill in highly sophisticated world of molecular biology and immunology.

Mr. Dange, Product Manager, Molecular Biology, Hi-Media Laboratories, Mumbai assisted to the students for technical knowhow of the complexity of reactions occurs in the analysis of DNA and Antigen Antibody reaction.

Hon’ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur presided over the function, in his presidential address Hon’ble Dr. Pravin Charde, Principal, expressed his views over organizing the hands on training and workshop. He particularly reiterated that every student participant take advantage of varieties of experiments which would be very useful in their further higher studies and also to get the jobs in their future life.

Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology, in his welcome address, said that the hands on training and workshop on Molecular Biology and Immunology would be very beneficial for the students for their higher



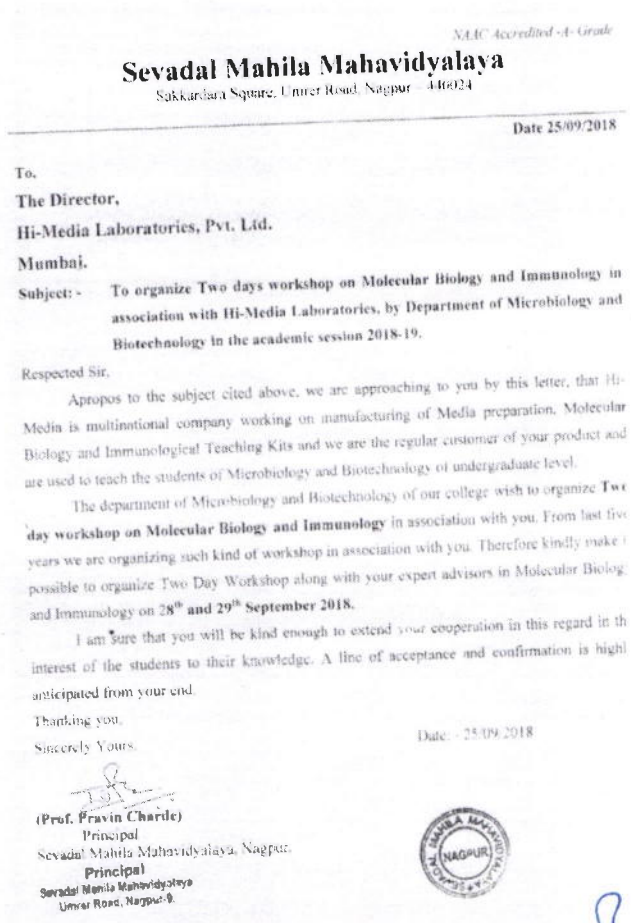


studies. Throughout the workshop students have studied to many experiments which usually only conducted in the hi-tech and innovative established laboratories.

Hon'ble Shri Sanjayji Shende, President, Sevadal Education Society, Nagpur has always encourages to conduct such training and workshop for the benefit of students and his best wishes are always with us.

The workshop was concluded in high note with valedictory function where workshop certificates issued by Multi-National Company with ISO 9001-2008 and internationally recognized by WHO-GMP and CE were distributed to the participant students. These certificates would prove very helpful to the students in securing hi-end jobs in the field of Microbiology and Biotechnology.

Mrs. S. R. Nimbarte, Dr. (Mrs.) K. V. Dubey, Ms. Mili Thakkar, Preet Naidu, Aditi Khagar and non teaching staff of the Department of Micro-Biology and Bio-Technology took every hardship for the grand success of the hands on training and workshop.



Workshop on 'Molecular Biology & Immunology' 2018-19



Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur.

4

Request letter to the Director, Hi-Media Laboratories Private Limited, Mumbai.



HiMedia Laboratories Pvt. Ltd.

Ref. No. /18-19/M/402  
Date: 05<sup>th</sup> Oct 2018

To,  
The Principal,  
Sevada Mahila Mahavidyalaya,  
Nagpur.

**Subject: Jointly organizing the Two Days workshop on "Molecular Biology and Immunology" on dated 28<sup>th</sup> & 29<sup>th</sup> September 2018.**

Respected Sir,

I will please to inform you that Department of Microbiology and Biotechnology, Sevada Mahila Mahavidyalaya, Nagpur and Hi-Media Pvt. Ltd. are jointly organizing a Two days workshop on "Molecular Biology and Immunology" on dated 28<sup>th</sup> & 29<sup>th</sup> September 2018.

I very much look happy to associate and to organize this workshop at your college. I wish every success in this very important event.

Thanking You,  
For HiMedia Laboratories Pvt. Ltd.,

Sunil Ghoshde  
Business Development Manager

REGD. OFFICE: C-23, KONDWA MIDC, PUNE, INDIA  
TEL: 020-26193970/25003707 FAX: 020-26250022  
CORPORATE OFFICE: A-116, Sector-1, Durgam Chawl, Secunderabad  
TEL: 080-91222447/080-2603777 FAX: 080-91222447/080-2603777  
Web: www.himedia.com



Consent from the Director, Hi-Media Laboratories Private Limited, Mumbai for collaborative organization of workshop on Molecular Biology.

Workshop on 'Molecular Biology & Immunology' 2018-19



Principal 5  
Sevada Mahila Mahavidyalaya  
Umrer Road, Nagpur.



Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology, welcomed the student and introduced the students about the importance of organizing workshop on Molecular Biology and Immunology



Mr. Singh, Marketing Manager from Hi-Media Laboratories Pvt. Ltd. Mumbai and Chief Guest of the workshop guided to the student about skill development and its avenues in Biotech other allied industries.



**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur.

Workshop on 'Molecular Biology & Immunology' 2018-19





Hon'ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur giving his Presidential address during the inaugural function of the workshop on Molecular Biology and Immunology.



Mr. Denge, Product Manager, Molecular Biology Technical expert from Hi-Media Laboratories Pvt. Led Mumbai being felicitated by the student of Fifth Semester Microbiology and Biotechnology.

Workshop on 'Molecular Biology & Immunology' 2018-19



Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur.

**Workshop Photographs:**



Mr. Denge, Product Manager, Molecular Biology and Technical expert from Hi-Media Laboratories Pvt. Ltd. Mumbai guiding and demonstrating different techniques to the students during workshop.



Press Note of the workshop on Molecular Biology and Immunology organized by Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur was published in Lokasatta Nagpur, News daily on 27<sup>th</sup> November 2018.

Workshop on 'Molecular Biology & Immunology' 2018-19



*[Signature]* 8

**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur.



# SEVADAL MAHILA MAHAVIDYALAYA

NAAC RE-ACCREDITED WITH "A" Grade

**Workshop**

**On**

**DECO PAGE ART**

**Organized by**

**DEPARTMENT OF FAMILY RESOURCE MANAGEMENT**

**FACULTY OF HOME SCIENCE**

**DATE: 02-05 FEBRUARY 2019**

**SESSION: 2018-2019**



  
**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur-8.



## INTRODUCTION

### DECOPAGE ART

An object by gluing colored paper cutouts onto it in combination with special paint effects, gold leaf and other decorative elements. Commonly, an object like a small box or an item of furniture is covered by cutouts from magazines or from purpose-manufactured papers. Each layer is sealed with varnishes (often multiple coats) until the “stuck on” appearance disappears and the result look like painting or inlay work. The traditional technique used 30 to 40 layers of varnish which were then sanded to a polished Three-dimensional decoupage (sometimes also referred to simply as decoupage) is the art of creating a three-dimensional (3D) image by cutting out elements of varying sizes from a series of identical images and layering them on top of each there, usually with adhesive foam spacers between each layer to give the image more depth. Pyramid decoupage (also called pyramage) is a process similar to 3D decoupage. In pyramid decoupage, a series of identical images are cut into progressively smaller, identical shapes which are layered and fixed with adhesive foam spacers to create a 3D “pyramid” effect.

#### **Aims and objectives of Workshop on deco page art**

The aims of art and design are to enable students to record from first hand experience and from imagination and to select their own ideas to use in their work to foster an enjoyment and appreciation of the visual arts and knowledge of artists crafts people and designers. Deco page art is the art of decorating objects by paper designing. Aim of this art is to create functional objects with artistic touches.

#### **Objectives of this art is to**

- Exercise and demonstrate use of elements to design
- Use material and tools to in variety of media painting printing and sculpture
- Analyze interpret and evaluate works of art




  
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Savitribai Phule Mahavidyalaya  
T. J. Road, Nagpur-3



## Photos of Decoupage Arts



  
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Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

## **Deco Page Art**

### **Biodata of Guest speaker:**

Dr. Pratiksha P. Morey expert in art Art . Hobby like painting , decopage art . She also interested in cooking and baking . She enthusiastically teach the students all types of arts always and well knowledge of art skills . She always run such workshop and improve students arts skills

### **Learning Outcome from workshop :**

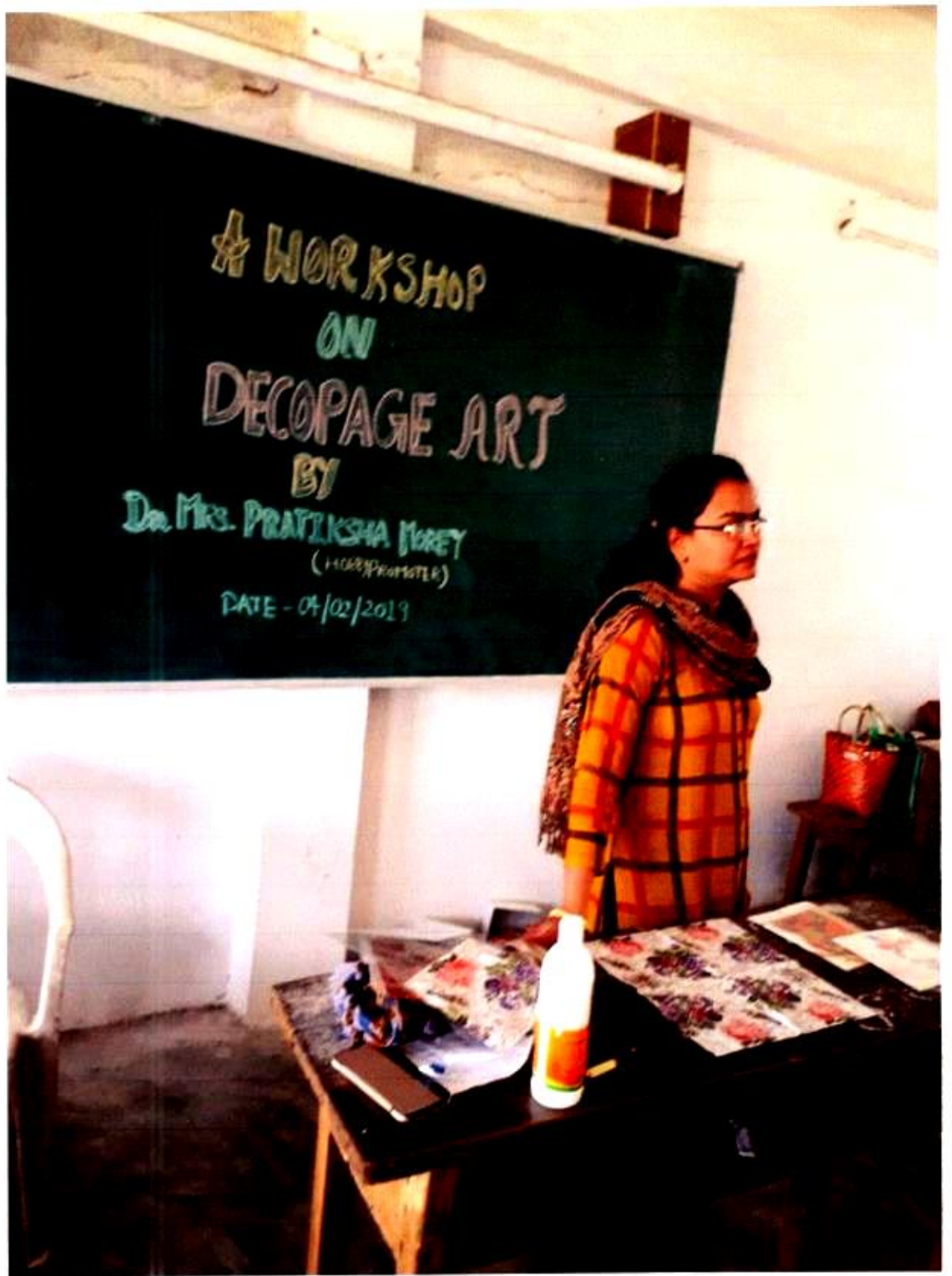
After doing workshop students enable in skill of decorating art on deco page and make different varieties of art of deco page. They learn how to make designs on page and prepare it beautifully.



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Umrer Road, Nagpur-9.







  
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Umrer Road, Nagpur-9.



**Students engage in workshop**



  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

## Workshop on Deco Page Art

### List of Participants –

1. Ms. Shubhangi Nakade
2. Ms. Hemangi Makwana
3. Ms. Rashmi Gupta
4. Ms. Poonam Jangade
5. Pratiksha Kathane
6. Prajakta Vaidya
7. Amruta Bhute
8. Ms. Akshata Meghre
9. Ms. Pallavi Waghmare
10. Ms. Kalyani Urkude
11. Priya Thakre
12. Ashwini Ivnate
13. Kusum More
14. Shraddha Wasnik
15. Shiwani Barsettiwar
16. Payal Kolharkar
17. Ashruta Gedam
18. Priti Khapekar
19. Mayuri Yeole
20. Chitrlekha Gabhane
21. Ms. Priti Sangidwar
22. Ms. Neha Jambhulkar
23. Shruti lekurwale
24. Ms. Divyani Raut
25. Ms. Ankita Pannase

Principal  
Govardhi Mahila Mahavidyalaya  
Gunter Road, Nagpur



26. Ms. Ankita Gaur
27. Yamini Bhanarkar
28. Rukhsar Parveen
29. Akanksha Shivhare
30. Sonali Dupare
31. Dhanashree Pohankar
32. Samiksha Bhanarkar
33. Mayuri Sonkusre
34. Divesha Moudekar
35. Shubhangi Badge
36. Ms Kajal Wahane
37. Ms. Pratiksha Nimkar
38. Ankita Uchke
39. Ms Nutan Parekar
40. Divya Mendhe
41. Kaushambi Borkar
- 42 Ekta Yelkar
43. Akanksha Paithankar
44. Harsha Bakal
45. Prajakta Lakkewar
46. Rishika Mishra
47. Ankita Bambratkar
48. Ms. Roshni Bhojwani
49. Ms Ekta Yadav
50. Komal Kadam
51. Ms. Humera I Qureshi
52. Ms. Diksha Adhav



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



## Report on

### Workshop of Deco page Art

Date : 02 To 05 Feb 2019



Convener

Dr. Mrs. S.D. Bhoyar

Head Of department  
Resource Management



Principal



Principal  
Sevadai Mahila Mahavidyalaya  
Sevadai Mahila Mahavidyalaya  
Umrai Road, Nagpur-8.



NAAC ACCREDITED 'A -GRADE'  
**SEVADAL MAHILA MAHAVIDYALAYA, NAGPUR**  
Sakkardara Square, Umrer Road, Nagpur

**Workshop on  
Fashion Jewellery Making.**

**Organized by  
Department of Textile and Clothing**

**Session: 2018-2019**

  
**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





**REPORT ON  
Workshop on Jewellery Making**

Name of the Department : Textile and Clothing  
Date of workshop : 28 & 29 Jan.2019  
Name of the Guest : Mrs. Bharti Wakde Time:  
10.00 am. to 3.00pm  
Title of the work- shop : Workshop on **Fashion  
Jewellery Making.**


In the session 2018-19 the Department of Textile & Clothing conducted a workshop on Fashion Jewellery Making. Sixty-two students from B.Sc. IIIrd year (H.Sc.) participated in this workshop on 28 & 29 Jan.2019. The workshop was conducted in association with Pidilite industry, Mrs. Bharti Wakde Professional Expert Fevicryl, Nagpur of the company was invited to guide the students.

**AIMS AND OBJECTIVES:**

- To develop the entrepreneurial skills by organizing workshop.

The fashion Jewellery making expert Mrs. Bharti Wakde knows how to make the beautiful pieces like Necklace, Rings, Pendants, Bangles and Earrings etc. according to their interest. In the beginning session she introduced the students with the fashion jewellery process, tools, equipment's, and material. She demonstrates and explains how to use terracotta molding clay to make handmade jewellery. She also taught how to take various colors and apply to the different types of jewellery, along with abstract shapes and designs. In this workshop you will learn to make different kinds of beads, pendants, earrings from clay and much more. Then you will learn to paint and assemble them to create a beautiful necklace set.

The students participated enthusiastically in the workshop and it was an

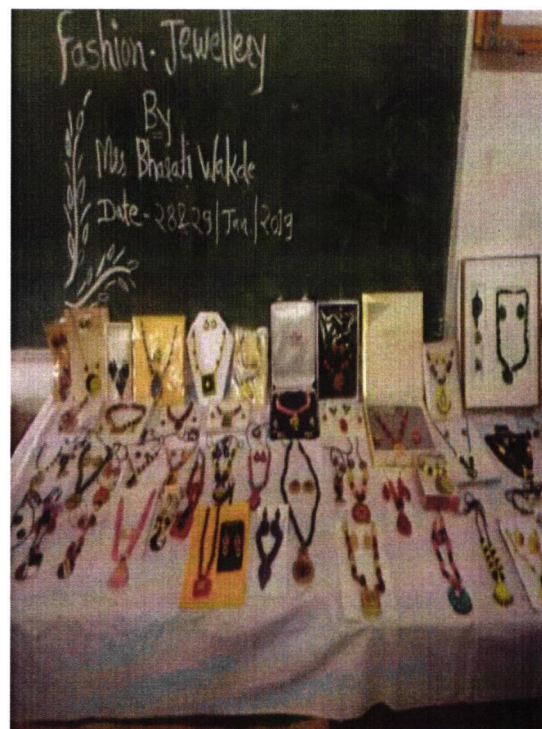
  
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Sevadal Mahila Mahavidyalaya  
Umter Road, Nagpur-9.



informative and creative workshop which imbibes technical skills and knowledge amongst the students. Students also enjoyed the actual making of jewellery products. It was a very innovative and interactive session.

**Outcomes:**

- Students learnt new skills and got innovative ideas.
- Workshops provided chance to interact with experts from specific fields.



(Dr. Mrs. Neeta Tiwade)  
Head  
Department of Textile and Clothing  
Sevadal Mahila Mahavidyalaya,  
Nagpur



(Prof. Pravin Charde)  
Principal  
Sevadal Mahila Mahavidyalaya  
Nagpur



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





Sevadal Education Society's

NAAC RE-ACCREDITED WITH 'A' GRADE

# SEVADAL MAHILA MAHAVIDYALAYA

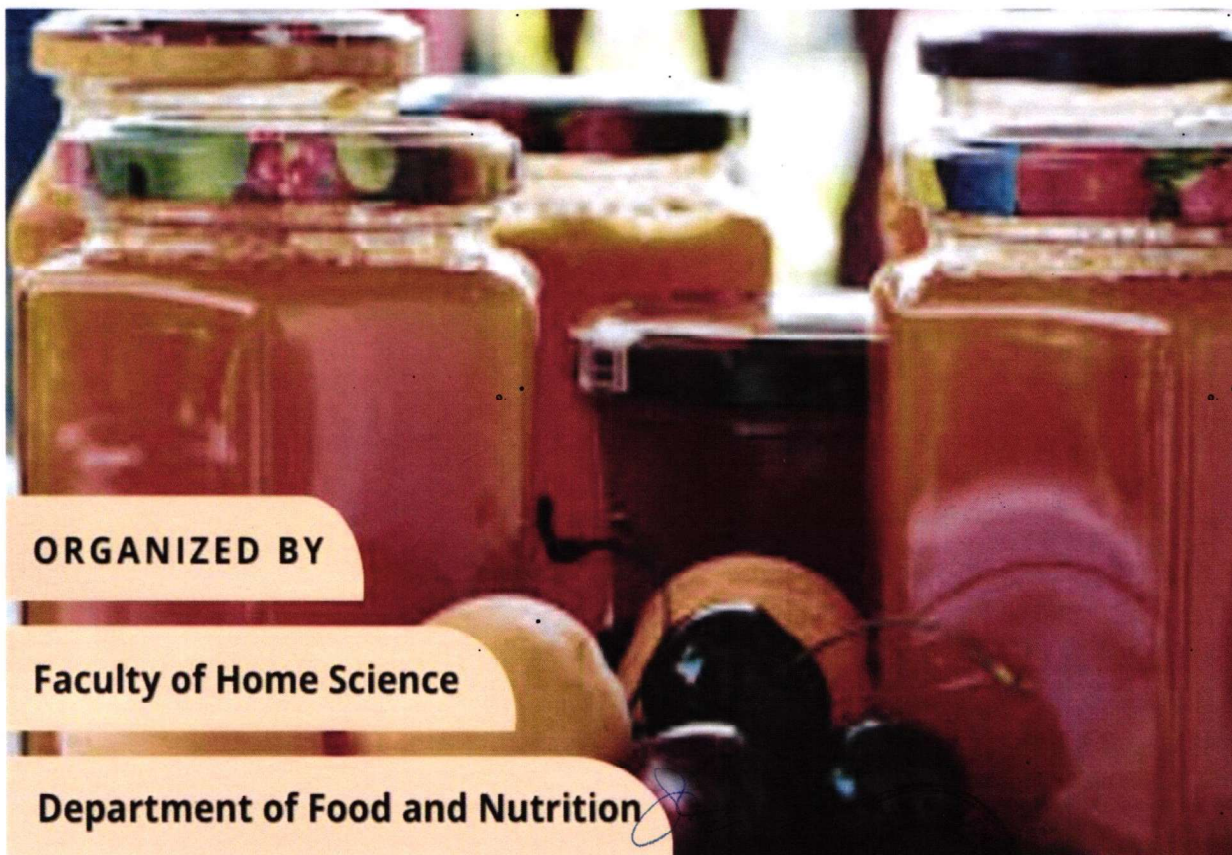
Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur-440024

<http://sevadalmahilamahavidyalaya.ac.in>

## REPORT OF WORKSHOP ON FRUIT AND VEGETABLE PRESERVATION

2018- 2019



**ORGANIZED BY**

**Faculty of Home Science**

**Department of Food and Nutrition**

Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





Sevadal Mahila Mahavidyalaya and Research Academy, a renowned educational Institute was established in 1992, under the Founder President Shri Kesharaoji Shende with the noble mission of imparting education to girl students. Education to women can change not only their lives but also of their entire family is a well-known proverb and the said cause is a mission of the Institution. Presently, institution is marching ahead under the dynamic leadership of our President Hon'ble Shri Sanjayji Shende, by his administrative prowess and radical methods, spearheaded the institution to its glorious achievements. At present, the college has been re-accredited by NAAC, Bangalore with 'A' Grade. The college offers various programmes in the faculties of Science, Home Science and Social Science at Undergraduate and Post-graduate level. The college offers Doctoral research programmes in subjects Environmental Science, Zoology, Chemistry and Microbiology.

## INTRODUCTION

Food security and food availability are two vital aspects for the growth and development of a nutrient rich society. To ensure food security and availability of adequate food to vast population of our country it is required that emphasis should be laid down on food processing and food preservation technique which would help in addressing the problem of food wastage and food longevity. The efficiency in food distribution system, decreasing the production cost, increase in exports, rationing of food during war and disaster etc. can be achieved through effective methods of managing wastage of food. Food processing and food preservation technique increases the shelf life of the food products by reducing or deferring the growth of microorganisms and thereby slowdown the process of oxidation of fats present in food. In order to impart the knowledge of food preservation to the students, the College has organized a workshop on Food Preservation for the students of B.Sc. Home science, second year from 28<sup>th</sup> of January to 01<sup>st</sup> of February 2019.

## AIMS AND OBJECTIVES

1. To make understand the students the basics of food preservation.
2. To impart knowledge about the scientific techniques of fruit and vegetable preservation.
3. To train the students with requisite skills of preservation of ketchup, squash, jam, sauce and chutney.



  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

## INAUGURAL FUNCTION

The college organized a five-day workshop on “Food Preservation” from 28<sup>th</sup> January 2019 to 01<sup>st</sup> of February 2019 under the Department of Food and Nutrition. On the onset of inaugural function Dr. Mrs Meghali M. Joharapurkar welcomed the guests and students and fore grounded the theme of the workshop.

The guests of the inaugural function, Mrs. Anjali Singh Demonstration Officer, from Ministry of Women and Child Development, Government of India, Community Food and Nutrition Education Unit, Nagpur presided over the function. Dr. Joharapurkar delivered the introductory address and then the demonstrator officer Mrs. Singh addressed the students participating in the workshop. She highlighted the need of food preservation in today’s food supply chain and stressed upon the reduction of food wastage through different preservation methods.

## WORKSHOP SESSION

The workshop was a 5-day event having theme on “Fruit and Vegetable Preservation” and the workshop was attended by 37 students.

Students from B.Sc. (Home Science) Semester IV participated in the workshop. Mrs. Anjali Singh threw light on basic purpose of fruit and vegetable preservation and elaborated on the particulars of preservation and preparation of recipes of jams, jellies, pickles, sauces, ketchups, chutneys and candies. She explained some of the methods which are usually adopted for preserving food and vegetables like dehydration, preservation with salt, sugar, vinegar and chemical preservatives. After giving elaborative information on the subject, she gave some basic instructions regarding the conduct and hygiene. After this the pre-preparations for the different demonstrations were carried out by the students under the guidance of demonstrator.

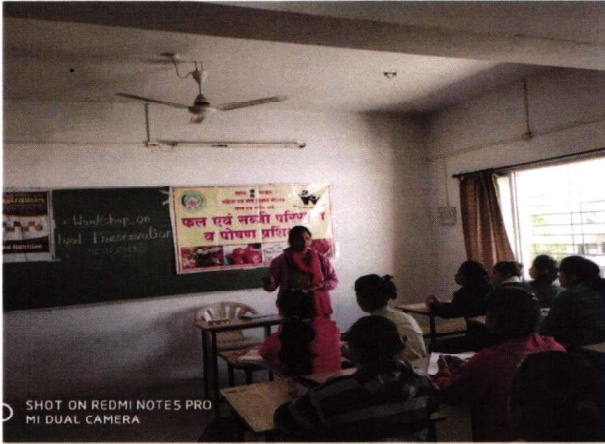
For all demonstrations a theoretical session was conducted where the ingredients and method of recipes were taught. Then the recipes of jams, jellies, pickles, sauces, chutneys and candies were demonstrated. Mrs. Singh also explained the students about the plate test of jams and jellies during the demonstration.



  
Principal

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Umrer Road, Nagpur-9.





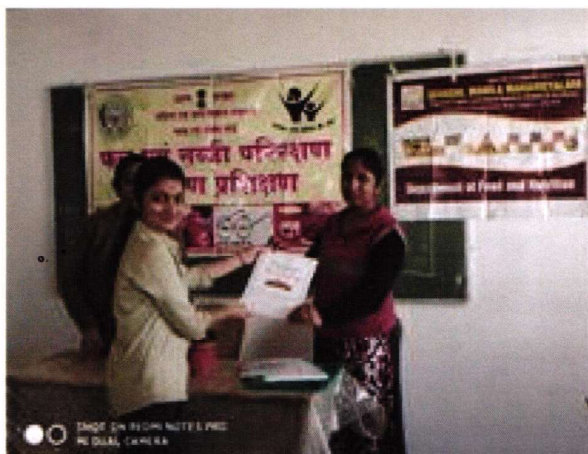
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Principal  
Nevadal Mahila Mahavidyalaya  
Umret Road, Nagpur-4.



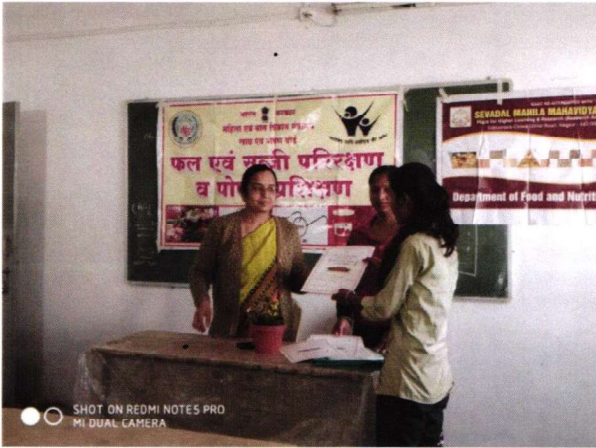


### VALEDICTORY FUNCTION

Mrs. Singh was the guests of the valedictory function. Dr. Mrs. Meghali M. Joharapurkar welcomed the guest with saplings. Mrs. Singh remarked that the workshop is of immense importance, as students get acquainted with hands on training and skills required for preparation of jams, jellies, pickles, sauces, chutneys and candies. As a mark of participation in workshop, the students were given certificates for successfully attending and taking part in the workshop. On behalf of College and Department Dr. M. Joharapurkar proposed a vote of thanks.



*Principal*  
**Principal**  
 Sevadal Mahila Mahavidyalaya  
 Umrer Road, Nagpur-9.



  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



NAAC RE-ACCREDITED WITH 'A' GRADE

**Sevadal Mahila Mahavidyalaya**  
**Place for Higher Learning & Research (Research Academy)**  
**Sakkaradara Square, Umrer Road, Nagpur**

**LIST OF PARTICIPANTS**

<b>Sr. No.</b>	<b>Name of Participants</b>	<b>Name of College</b>
1	Ku. Aakansha Shivaji Paithankar	Sevadal Mahila Mahavidyalaya
2	Ku. Akanksha Rambihare Shivhare	Sevadal Mahila Mahavidyalaya
3	Ku. Akshta Arjunrao Meghre	Sevadal Mahila Mahavidyalaya
4	Ku. Amruta Jageshwar Bhute	Sevadal Mahila Mahavidyalaya
5	Ku. Ankita Mahendraji Uchake	Sevadal Mahila Mahavidyalaya
6	Ku. Ankita Tulsidas Gour	Sevadal Mahila Mahavidyalaya
7	Ku. Ashruta Sunil Gedam	Sevadal Mahila Mahavidyalaya
8	Ku. Ashwini Durgesh Uvanate	Sevadal Mahila Mahavidyalaya
9	Ku. Chitrarekha Khemraj Gabhane	Sevadal Mahila Mahavidyalaya
10	Ku. Dhanshri Sudhirrao Pohankar	Sevadal Mahila Mahavidyalaya
11	Ku. Divesha Sanjay Moudekar	Sevadal Mahila Mahavidyalaya
12	Ku. Divyani Suresh Raut	Sevadal Mahila Mahavidyalaya
13	Ku. Ekta Anilrao Yelkar	Sevadal Mahila Mahavidyalaya
14	Ku. Ekta Nandkishore Yadav	Sevadal Mahila Mahavidyalaya
15	Ku. Hemangi Kirtikumar Makwana	Sevadal Mahila Mahavidyalaya
16	Ku. Kajal Parmanand Wahane	Sevadal Mahila Mahavidyalaya
17	Ku. Kalyani Bhagwanji Urkude	Sevadal Mahila Mahavidyalaya
18	Ku. Kaushambi Siddharth Borkar	Sevadal Mahila Mahavidyalaya
19	Ku. Komal Gajanan Kadam	Sevadal Mahila Mahavidyalaya
20	Ku. Mayuri Kawduji Yeole	Sevadal Mahila Mahavidyalaya
21	Ku. Mayuri Parmeshwar Sonkusare	Sevadal Mahila Mahavidyalaya
22	Ku. Neha Walmik Jambhulkar	Sevadal Mahila Mahavidyalaya
23	Ku. Payal Gajanan Kolharkar	Sevadal Mahila Mahavidyalaya
24	Ku. Prajakta Ramesh Lakkewar	Sevadal Mahila Mahavidyalaya
25	Ku. Priti Rajendra Sangidwar	Sevadal Mahila Mahavidyalaya



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



26	Ku. Priya Kishor Thakare	Sevadal Mahila Mahavidyalaya
27	Ku. Rashmi Anand Gupta	Sevadal Mahila Mahavidyalaya
28	Ku. Pallavi Dnyaneshwar Waghmare	Sevadal Mahila Mahavidyalaya
29	Ku. Rishika Rajeev Mishra	Sevadal Mahila Mahavidyalaya
30	Ku. Rukhsar Parveen Mohammad Salim	Sevadal Mahila Mahavidyalaya
31	Ku. Samiksha Somnath Bhanarkar	Sevadal Mahila Mahavidyalaya
32	Ku. Shivani Sanjay Barsettiwar	Sevadal Mahila Mahavidyalaya
33	Ku. Shraddha Prashant Wasnik	Sevadal Mahila Mahavidyalaya
34	Ku. Shruti Kawduji Lekurwade	Sevadal Mahila Mahavidyalaya
35	Ku. Shubhangi Narendra Nakade	Sevadal Mahila Mahavidyalaya
36	Ku. Shubhangi Harichand Badge	Sevadal Mahila Mahavidyalaya
37	Ku. Sonali Manoj Dupare	Sevadal Mahila Mahavidyalaya

*M M Joharapurkar*  
Dr. Mrs. Meghali M. Joharapurkar  
Head  
Department of Food and Nutrition  
Sevadal Mahila Mahavidyalaya, Nagpur



*[Signature]*  
Prof. Pravin Charde  
Principal  
Sevadal Mahila Mahavidyalaya  
Umre Road, Nagpur-9.

*[Signature]*  
Principal  
Sevadal Mahila Mahavidyalaya  
Umre Road, Nagpur-9.



NAAC REACCREDITED 'A -GRADE'

**SEVADAL MAHAVIDYALAYA, NAGPUR**  
Sakkardara Square, Umrer Road, Nagpur

**Report of Workshop on**  
**'Molecular Biology & Immunology'**



*Jointly Organized By*

**Department of Microbiology**  
**And**  
**Hi-Media Laboratories Private Limited, Mumbai**

**Academic Session: 2019-20**

Workshop on 'Molecular Biology & Immunology' 2019-20



1  
**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur.

## Report of Workshop on 'Molecular Biology and Immunology'

Date of organizing Workshop	23 <sup>rd</sup> & 24 <sup>th</sup> September 2019
Name of the Department	Microbiology & Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur
Academic Session	2019-2020
Number of students Participated	75

### Aims and Objective of the Workshop:

Students of Microbiology and Biotechnology should gain fundamental knowledge of molecular biology and immunological techniques so that they become well acquainted and feel comfortable while working on the sophisticated tools required for the molecular biology experiments. To achieve this main objective, Department of Microbiology and Biotechnology, Sevadal Mahila Mahavidyalaya, Nagpur organized two days workshop for hands-on training in Molecular Biology & Immunology in collaboration with Hi-Media Laboratories Private Limited, Mumbai on 23<sup>rd</sup> and 24<sup>th</sup> September 2019. Organization of such workshops will give a wide exposure to the students to concept, skills and to learn and perform experiments independently on different tools required in molecular biology and immunology.

### Glimpses of the Activities undertaken in the Workshop:

Two days Workshop on hands-on training in Molecular Biology & Immunology was organized so that comprehensive background lectures coupled with extensive hands-on experience were provided to the students and to the new staff members. The workshop was divided into several modules such as techniques like isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, Polymerase chain reaction (PCR), single radial Immunodiffusion electrophoresis, preparation of different types of buffers used in molecular biology taught to perform. Each module was taught by an expertise in the area covered in the workshop. Each module began with a lecture that introduced the technique in describing both the uses and applications of that particular technique. The lectures were followed by a laboratory session during which students followed protocols that were carefully designed to learn the objective of the techniques. Throughout these laboratory sessions, students were given an importance of proper technique of handling different





apparatus and equipments like micropipettes, cooling micro centrifuge, gel electrophoresis units, uv-transilluminator etc, preparation of standard buffer solutions and accuracy in weighing of chemicals and pipetting of solutions.

In these workshop 75 students of B. Sc. SEM V Microbiology and Biotechnology participated and undergone training in the basic techniques of Molecular biology and Immunology. Hands on training on techniques such as isolation of genomic and plasmid DNA, restriction digestion of DNA, Agarose gel electrophoresis, PCR, single radial Immuno-diffusion electrophoresis, preparation of different types of buffers used in molecular biology were given to the students. Students were provided with the participation certificates after successful completion of the workshop.

Chief Guest of the workshop Mr. Sanjeev Kumar Singh, Marketing Manager, Hi-Media Laboratories, Mumbai in his address explained that in the era of globalization students should get well equipped with latest knowledge and technical skill in highly sophisticated world of molecular biology and immunology.

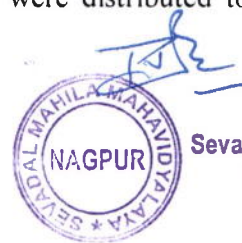
Mr. Girish Pai, Product Manager, Molecular Biology, Hi-Media Laboratories, Mumbai assisted to the students for technical knowhow of the complexity of reactions occurs in the analysis of DNA and Antigen Antibody reaction.

Hon'ble Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya, Nagpur presided over the function, in his presidential address Hon'ble Dr. Pravin Charde, Principal, expressed his views and reiterated that every student participant take advantage of variety of experiments which would be very useful in their further higher studies and also to get the jobs in their future life.

Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology, in his welcome address, said that the hands on training and workshop on Molecular Biology and Immunology would be very beneficial for the students for their higher studies. Throughout the workshop students have studied to many experiments which usually only conducted in the hi-tech and innovative established laboratories.

Hon'ble Shri Sanjayji Shende, President, Sevadal Education Society, Nagpur has always encourages to conduct such training and workshop for the benefit of students and his best wishes are always with us.

The workshop was concluded in high note with valedictory function where workshop certificates issued by Multi-National Company with ISO 9001-2008 and internationally recognized by WHO-GMP and CE were distributed to the participant



students. These certificates would prove very helpful to the students in securing hi-end jobs in the field of Microbiology and Biotechnology.

Mrs. S. R. Nimbarte, Dr. (Mrs.) K. V. Dubey, Ms. Mili Thakkar, Preet Naidu, Aditi Khagar and non teaching staff of the Department of Micro-Biology and Bio-Technology took every hardship for the grand success of the hands on training and workshop.

SILC Accredited A Grade

**Sevadal Mahila Mahavidyalaya**  
Sole Sardana Square, Umrer Road, Nagpur - 440004

Date 16/09/2019

To,  
The Director,  
Hi-Media Laboratories, Pvt. Ltd.,  
Mumbai.

Subject - To organize Two days workshop on Molecular Biology and Immunology in association with Hi-Media Laboratories, by Department of Microbiology and Biotechnology in the academic session 2019-20.

Respected Sir,

Appross to the subject cited above, we are approaching to you by this letter, that Hi-Media is multinational company working on manufacturing of Media preparation, Molecular Biology and Immunological Teaching Kits and we are the regular customer of your product and are used to teach the students of Microbiology and Biotechnology of Undergraduate level.

The department of Microbiology and Biotechnology of our college wish to organize Two day workshop on Molecular Biology and Immunology in association with you. From last five years we are organizing such kind of workshop in association with you. Therefore kindly make it possible to organize Two Day Workshop along with your expert advisors in Molecular Biology and Immunology on 23<sup>rd</sup> and 24<sup>th</sup> September 2019.

I am sure that you will be kind enough to extend your cooperation in this regard in the interest of the students to their knowledge. A tone of acceptance and confirmation is highly anticipated from your end.

Thanking you,

Sincerely Yours,

(Prof. Pravin Charde)  
Principal  
Sevadal Mahila Mahavidyalaya, Nagpur.



Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-5.

*Received*

Application to the Director, Hi-Media Laboratories Private Limited, Mumbai for collaborative organization of workshop on Molecular Biology & Immunology.

*de*





Student Felicitating to Hon'ble Prof. Pravin Charde, Principal, during the inaugural function of the workshop on Molecular Biology and Immunology



Introductory remarks and importance of workshop details given by Dr. Prabhakar Bhandari, Head Department of Microbiology and Biotechnology.



Felicitation of Chief Guest Mr. Sanjeev Kumar Singh, Marketing Manager Hi-Media Laboratories Pvt. Ltd. Mumbai.





Mr. Sanjeev Kumar Singh, Marketing Manager from Hi-Media Laboratories Pvt. Ltd. Mumbai guided the student about marketing skills of the Product.



Mr. Girish Pai, Product Manager, Molecular Biology Technical expert from Hi-Media Laboratories Pvt. Ltd. Mumbai.



Mr. Girish Pai, Product Manager, explained the significance of Molecular Biology in today's era of developmental Science and Technology.



Hon'ble Prof. Pravin Charde, Principal, giving his Presidential address during the inaugural function of the workshop.



Student's active participation during workshop on Molecular Biology and Immunology organized.



**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur.

Workshop on 'Molecular Biology & Immunology' 2019-20





Press Note of the workshop on Molecular Biology and Immunology organized by Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur was published in The Hitavada City Line on 12<sup>th</sup> October 2019.



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur.



**SEVADAL MAHILA MAHAVIDYALAYA,  
NAGPUR**

**REPORT ON ONE DAY WORKSHOP ON  
ANTISOCIAL BEHAVIOUR IN CHILDHOOD**

**21<sup>ST</sup> DECEMBER 2019**



**DEPARTMENT OF HUMAN DEVELOPMENT**

**SEVADAL MAHILA MAHAVIDYALAYA,**

**SAKKARDARA CHOWK,**

**UMRED ROAD,**

**NAGPUR.**



  
Principal  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

REPORT ON

**REPORT ON ONE DAY WORKSHOP ON  
ANTISOCIAL BEHAVIOUR IN CHILDHOOD**

**DEPARTMENT OF HUMAN DEVELOPMENT**

Faculty of Home science organized a one day workshop on “Entrepreneurial avenues in home science” on 21<sup>st</sup> December 2019 in the college campus. Department of Human Development conducted a workshop on ‘Antisocial behavior in childhood’ for the students of B.Sc. Home science semester VI. Twenty two students participated in this work shop. Counselor Mr. chetanRewatkar was invited as expert for this event.

The workshop was conducted in two sessions meaning of antisocial behavior and how to detect it and simple characteristics of antisocial behavior were discussed.

**First Session :-**

In first session, Mr. Rewatkar, explained the meaning of antisocial behaviour in childhood by giving various examples. Behaviour by a person which causes harassment, alarm or distress to people not of the same household. He focused on the effect of antisocial behaviour which can ruin peoples lives and devastate their communities he also focused on the fine line difference between antisocial behavior and disputer. he quoted various examples to explain this behavior in children around us, like Noise like land music, banging at unsocial hours, shouting, swearing & fighting, Harassment, verbal abuse, animal nuisance, etc. He also explained how to find out the antisocial behavior in children.



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Umrer Road, Nagpur-9.




## **Second Session :-**

speaker Mr. Chetan Rewatkar also explain & conducted psychological test to find out the antisocial behaviour. students were guided ho to conduct the test and also explained about time limit to solve find out the antisocial behaviour in children, students showed their skills by solving and scoring the test and finding the category of child if he/ she belongs to antisocial behaviour or the child is normal. The workshop was conducted to develop interest and to develop the skills in counseling process, to choose the career in Human development and a counselor.


## **Objectives :-**

- 1) To creat interest in students
- 2) To develop confidence for handeling children
- 3) To develop abilities to manage psychological problem in children
- 4) To develop confidence and personality as a counselor

The workshop ended by 5.30 pm students enjoyed it. the workshop on counseling was very new experience for the students. Feedback of students was also taken all were very happy and were interested to continue it in future as their career.

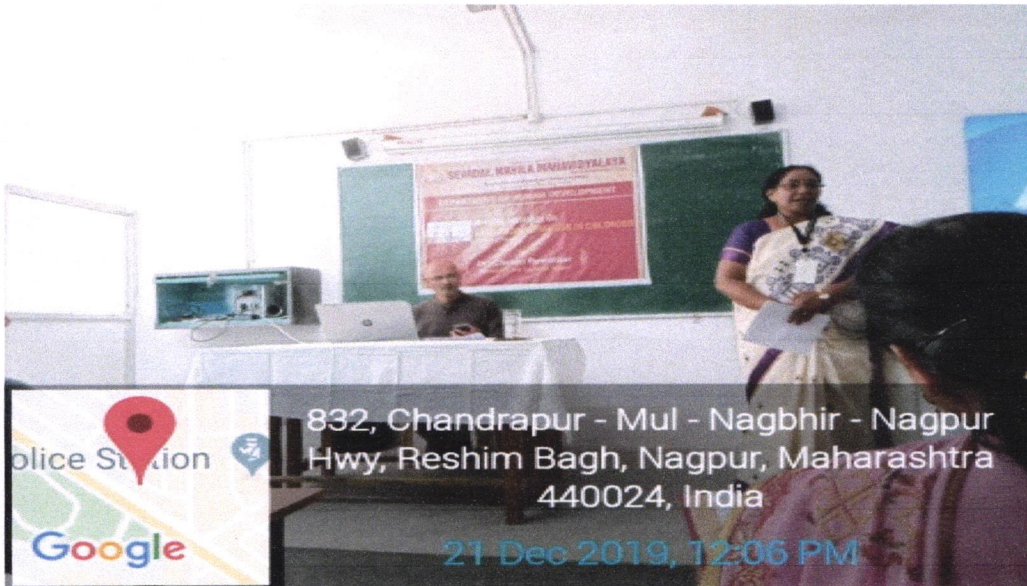
  
**Dr. Archana Ratkanthiwar**  
**Head**  
**Department of**  
**Human Development**



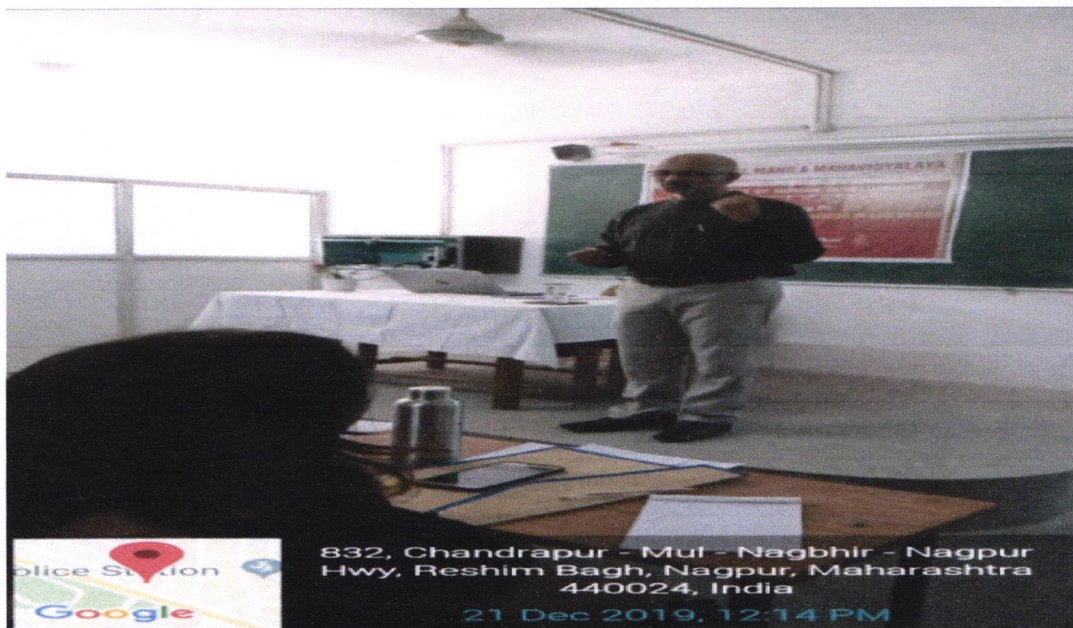
  
**Dr. Pravin Charde**  
**Principal**  
**Sevadal Mahila Mahavidyalaya,**  
**Nagpur**



## PHOTOGRAPHS RELATED TO WORKSHOP



### Introduction of Guest Speaker

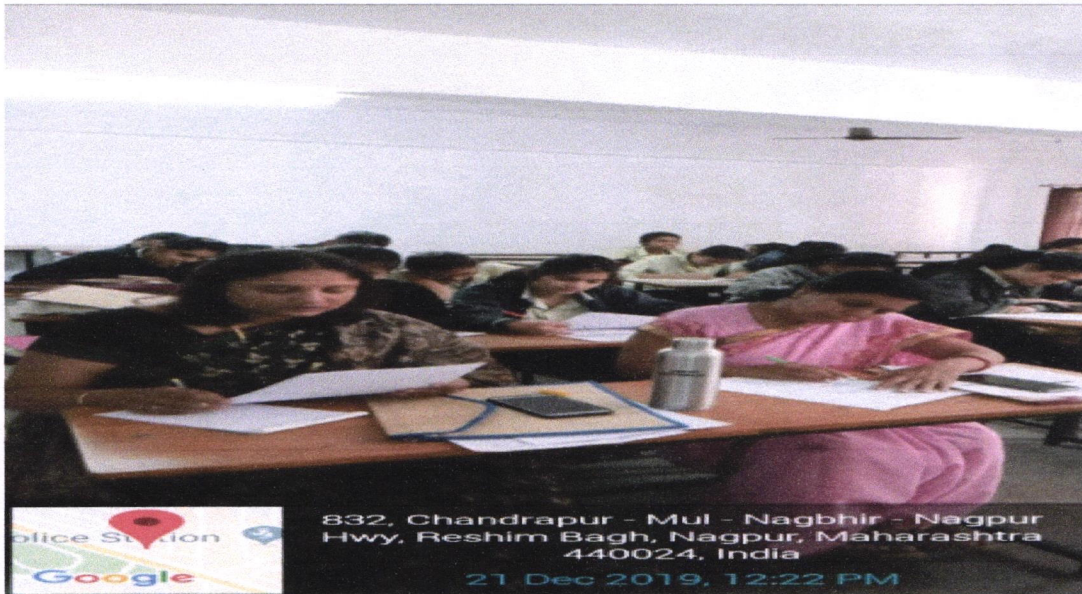


### Guidance by Speaker

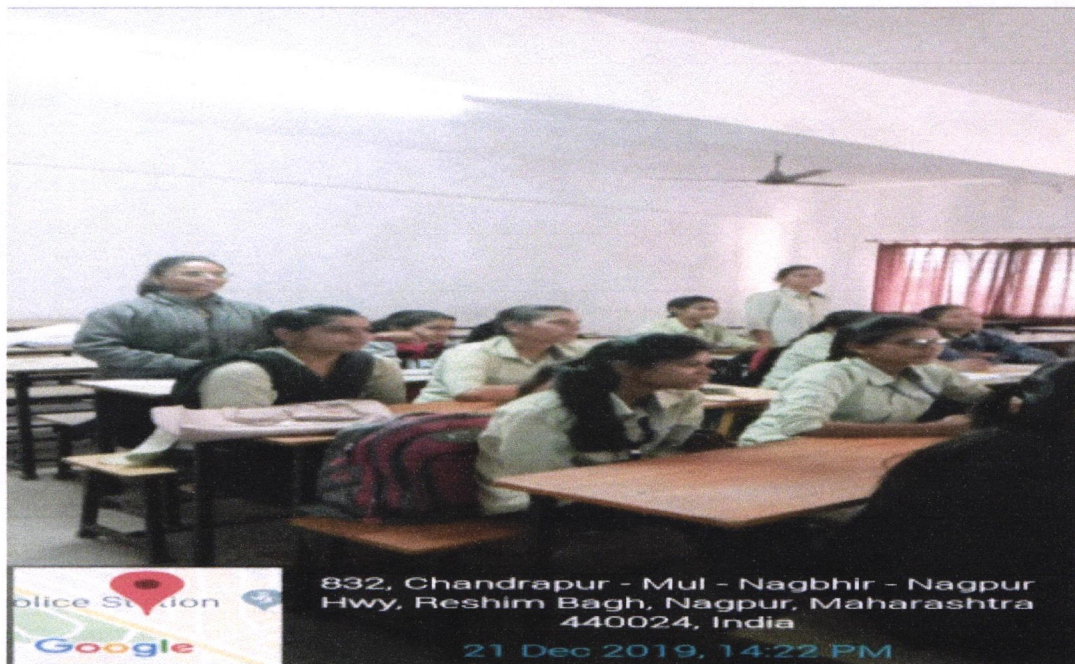
  
Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.







**Participants solving questionnaire**



**Students asking Queries.**

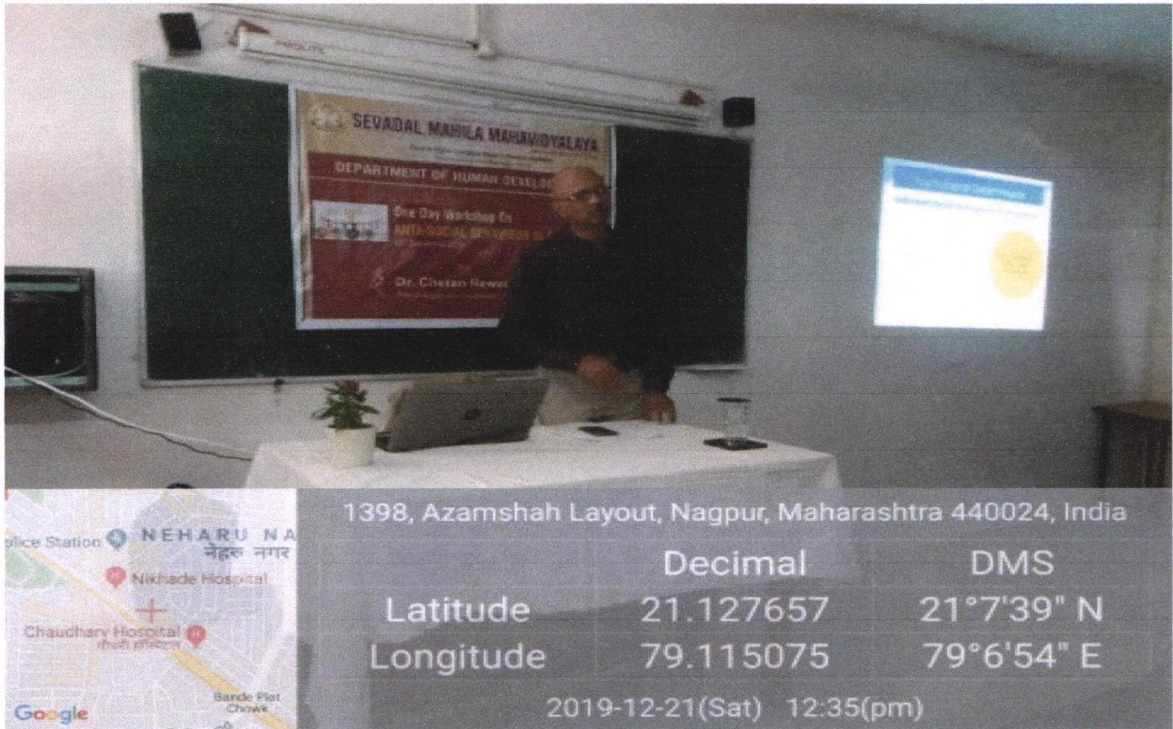
*[Handwritten Signature]*

**Principal**

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Umrer Road, Nagpur-9.







### Queries solved by Speaker



**Program Ended by Song Therapy**

5



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Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



**Sevadal Mahil Mahavidyalay,**  
**One Day Workshop**  
**On**  
**ANTI-SOCIAL BEHAVIOUR IN CHILDHOOD**  
**Date 21st December 2019**

Sr. No.	Name of Students	Class
1	Ku. Ankansha S. Paithankar	B.Sc (H.Sc.) Sem VI
2	Ku. Akansha R. Shivhare	B.Sc (H.Sc.) Sem VI
3	Ku. Akshata A. Meghare	B.Sc (H.Sc.) Sem VI
4	Ku. Amruta J. Bhute	B.Sc (H.Sc.) Sem VI
5	Ku. Ankita M. Uchake	B.Sc (H.Sc.) Sem VI
6	Ku. Ankita P. Pannase	B.Sc (H.Sc.) Sem VI
7	Ku. Ankita T. Gour	B.Sc (H.Sc.) Sem VI
8	Ku. Ashruta S. Gedam	B.Sc (H.Sc.) Sem VI
9	Ku. Ashwini D. Uvanate	B.Sc (H.Sc.) Sem VI
10	Ku. Chitrarekha K. Gabhane	B.Sc (H.Sc.) Sem VI
11	Ku. Divesha S. Moudekar	B.Sc (H.Sc.) Sem VI
12	KU. Divyani S. Raut	B.Sc (H.Sc.) Sem VI
13	Ku. Ekta A. Yelkar	B.Sc (H.Sc.) Sem VI
14	Ku. Ekta N. Yadav	B.Sc (H.Sc.) Sem VI
15	Ku. Himangi K. Makwana	B.Sc (H.Sc.) Sem VI
16	Ku. Kajal P. Wahane	B.Sc (H.Sc.) Sem VI
17	Ku. Kalyani B. Urkude	B.Sc (H.Sc.) Sem VI
18	Ku. Komal G. Kadam	B.Sc (H.Sc.) Sem VI
19	Ku. Kusum S. More	B.Sc (H.Sc.) Sem VI
20	Ku. Mayuri K. Yeole	B.Sc (H.Sc.) Sem VI
21	Ku. Mayuri P. Sonkusare	B.Sc (H.Sc.) Sem VI
22	Ku. Minaz A.J. Sheikh	B.Sc (H.Sc.) Sem VI

*Dr. Archana Ratkanthiwar*  
**Dr. Archana Ratkanthiwar**  
**Head**  
**Department of**  
**Human Development**



*Dr. Pravin Charde*  
**Dr. Pravin Charde**  
**Principal**  
**Sevadal Mahila**  
**Mahavidyalaya, Nagpur**

*Principal*  
**Principal**  
**Sevadal Mahila Mahavidyalaya**  
**Umrer Road, Nagpur-9.**



# **SEVADAL MAHILA MAHAVIDYALAYA**

NAAC RE-ACCREDITED WITH "A" Grade

**Workshop**

**On**

**PROLIFIC ART**

**Organized by**

**DEPARTMENT OF FAMILY RESOURCE MANAGEMENT**

**FACULTY OF HOME SCIENCE**

**DATE: 21 DECEMBER 2019**

**SESSION: 2019-2020**



  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Ummer Road, Nagpur-9.





## **Prolific art**

### **Introduction :**

Prolific art is the art use on designing pots and utensils with painting, Prolific art is the new concept of art and everyone like it. The students of home science are interested in prolific work.

### **Aims and Objectives o Workshop:**

- Exercise and demonstrate use of elements to design.
- Use material and tools in variety of media painting, Printing and Sculpture.
- Analyze interpret and evaluate works of art.

### **BRIEF REPORT OF WORKSHOP:**

Department of resource management conducted workshop on 'Prolific Art' in which students paint the tea kettle by using Madhubani Motifs. Forty-eight participants have attended this workshop. Forty-one students of our college from B.Sc. Home Science Semester II & IV participated in this workshop, four students & three teachers from other colleges took part in workshop. The workshop was conducted in association with Pidilite industry. Mrs. Ashwini Sabale, Hobby promoter of the company was invited to guide the students. She explained the importance of creativity in today's fashion world. So tea kettle was selected for painting. The procedure was started with applying white color for the background of the kettle. Then students traced the Madhubani Motifs on a kettle. After tracing Neon colors were applied to complete the designs. The handle was painted in contrast to Neon color. The kettles were dried after 2-3 hours. Then color warmish was applied on the kettle to make it glossy. The workshop started at 11.30 am. and ended by 5.30 pm. Students enjoyed the workshop. Department got the order of the kettle from one restaurant. The colorful kettle is in demand for decoration purposes in star hotels. So we are hopeful to get more orders. The main goal of conducting this workshop was to learn and proceed towards gainful employment on their own. So we are satisfied that we reached toward the goal to some extent.

### **Learning Outcome of Workshop**

Students are enable to make art on different pots. Skills of making art and painting on kettles and other pots and bottles. They are able to make art nicely.



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





# Photos of Prolific Art



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





## Photos of Prolific Art on Kettle

  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





Sevalal Education Society's  
**Sevalal Mahila Mahavidyalaya**

NAAC Re-Accredited With 'A' Grade

Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur - 440024(M.S.)INDIA

[www.sevalalmahilamahavidyalaya.ac.in](http://www.sevalalmahilamahavidyalaya.ac.in) Email: [sevamahilamv@gmail.com](mailto:sevamahilamv@gmail.com)

**ONE DAY WORKSHOP ON ENTREPRENEURIAL AVENUES  
IN HOME SCIENCE  
21<sup>st</sup> December, 2019**

**Registration Form**

Name: Dr. / Mrs. / Ms. ....  
(In Block Letters)

Designation: .....

Office Address: .....

Permanent Address: .....

Telephone No.: .....

Mobile No.: .....

E-mail ID : .....

Participants : Student

Teacher

Particulars of Registration Fee:

Amount (Rs.) ..... Cash ..... Date .....

Date :

Place:

Signature





FELICITATION OF GUEST MS ASHWINI SABALE OF WORKSHOP



STUDENTS ENGAGE IN WORKSHOP



  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

Sevadal Education Society's

**NAAC RE-ACCREDITED WITH 'A' GRADE**  
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Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umrer Road, Nagpur - 440 024



One Day Workshop On :

**ENTREPRENEURIAL AVENUES IN HOME SCIENCE**



*Certificate*

This is to certify that *Dr./Ms/Mrs. K. Ladda Exam Saleem*..... has  
of *Sevadal Mahila Mahavidyalaya, Nagpur*..... has  
actively participated in One Day Workshop on 'Entrepreneurial Avenues In Home Science' for students Organized  
by Department of Home Science, Sevadale Mahila Mahavidyalaya, Nagpur on 21<sup>st</sup> December 2019. She has  
participated in workshop on *Practical Art*.....

Convener

Organising Secretary

Principal

Sevadale Mahila Mahavidyalaya, Nagpur



Principal

Sevadale Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



# LIST OF PARTICIPANTS



**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





SEVADAL MAHILA MAHAVIDYALAYA, NAGPUR  
DEPARTMENT OF TEXTILE AND CLOTHING

One Day Workshop

On  
PROLIFIC ART

Date : 21<sup>st</sup> December 2019

S.No.	Name of the Student	Class	Mobile No.	Email Add	Aadhaar No
1	Ku. Ladda Erram Saleem	B.Sc. (II)	8806974636	Erram.ladda@gnail.com	4797 2636 4941
2	Ku. Madhu K. Mishra	B.Sc. - IT	7539772296		6852 0288 9460
3	Ku. Mannasi S. Patale	B.Sc (II)	75173 48794	patale.mannasi@gnail.com	4751 8648 0218
4	Ku. Mayuri V. Ghonge	B.Sc (II)	8087797917	mayurighonge655@gnail.com	820855316599
5	Ku. Mohini S. Dhande	B.Sc (II)	9639770467	mohini.dhande@gnail.com	870089991590
6	Ku. Mokshada K. Bhagde	B.Sc (II)	7887341460	mayurbhagde@gnail.com	9269 84 60 1844
7	Ku. Mrunali P. Meshram				
8	Ku. Neha N. Giri				
9	Ku. Nikita A. Rehpade				
10	Ku. Nikita R. Gadhawe				
11	Ku. Nisha B. Dongre				
12	Ku. Nupur R. Gupta	B.Sc. (H.S)	8308667847	guptanupur2766@gnail.com	8726 8796 7142
13	Ku. Pallavi L. Kambale				
14	Ku. Pooja S. Bawankar				
15	Ku. Pooja V. Funde	B.Sc (H.S)	9891679330	Poojafunde2000@gnail.com	7260 8738 3706
16	Ku. Prachi S. Tandulkar	B.Sc sem II	8390249741	Prachitandulkar2009@gnail.com	7260 3134 7637
17	Ku. Pratiksha R. Kale	B.Sc Sem II	7666142028	Pratikshakale1009@gnail.com	2201-8782-8099
18	Ku. Pratiksha S. Wanjari	B.Sc sem II	7020123394		

*(Signature)*

Principal  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



		<u>Class</u>	<u>mob. No.</u>	<u>E-mail ID</u>	<u>Adhar No</u>
19	Ku. Priyanka R. Wadichar	B.Sc 2 <sup>nd</sup> year	7119046949	prajwadhakar715@gmail.com Pratishriniyankar14@gmail.com	91774762189
20	Ku. Priyanka S. Patle	B.Sc 1 <sup>st</sup> year	9156477112		470642189984
21	Ku. Priya R. Bawankar				
22	Ku. Rachana A. Wadhvasne				
23	Ku. Komal S. Karthar	B.Sc (Home Science) 2 <sup>nd</sup> year	7610680250	komal.kavayast@gmail.com	41096862441
24	Ku. Kratika A. Mourya	B.Sc (Home Science) 2 <sup>nd</sup> year	7058301619	kom.mourya143@gmail.com	985411810202
25	Ku. Mansi P. Jadhav	B.Sc (Home Sci.) 2 <sup>nd</sup> year	7378960649	mansijadhav45@gmail.com	591025238477
26	Ku. Megha J. Kodape	B.Sc (Home Sci.) 1 <sup>st</sup> year	9665855421	meghadkape08@gmail.com	282202107401
27	Ku. Monali A. Giradkar	B.Sc (Home Sci.) 1 <sup>st</sup> year	9370694691	monaligiradkar@gmail.com	466974484284
28	Ku. Mrunalini V. Srisikar	B.Sc (Home Sci.) 1 <sup>st</sup> year	7509702195	mrunalinisikar77@gmail.com	678133926321
29	Ku. Mrudula G. Kale	B.Sc (Home Sci.) 1 <sup>st</sup> year	7218975024	mrudulakale94@gmail.com	8292789601394
30	Ku. Nikita P. Makde	B.Sc (Home Sci.) 1 <sup>st</sup> year	7066440856	nikitapmakde416@gmail.com	935744429445
31	Ku. Nilambari P. Sherkar	B.Sc (Home Sci.) 1 <sup>st</sup> year	95954714866	nilambarisherkar24@gmail.com	964010768434
32	Ku. Nooruzma A. Sheikh	B.Sc (Home Sci.) 1 <sup>st</sup> year	7367913709	nooruzmaabulh@gmail.com	452883121441
33	Ku. Omeshwari N. Puri				
34	Ku. Parina S. Patel	B.Sc (Home Sci.) 2 <sup>nd</sup> year	8329395960	patelparina7@gmail.com	711351441053
35	Ku. Pooja C. Arya	IV Sem	8624934298	pooja.arya.1423@gmail.com	503424423448
36	Ku. Pooja R. Gite				
37	Ku. Poonamdevi V. Gupta	1 <sup>st</sup> Sem	9834557277	itshsakul09@gmail.com	4105736056382
38	Ku. Pragati S. Khadase	IV Sem	9021270886	pragatikhadase29@gmail.com	468111022552
39	Ku. Priya B. Kodane	IV Sem	9172769754	prityakodane@gmail.com	2025710991481
40	Ku. Rajeshree H. Raul	IV <sup>th</sup> sem	9130575391	raulrajeshree0@gmail.com	679609709363
41	Ku. Rashmi K. Sakharkar	IV Sem	9011449427	rashmi20@gmail.com	307283914468
42	Ku. Rimpa P. Barman	IV Sem	8275588831		593543804279

**Principal**  
Sevada Mahila Mahavidyalaya  
Umer Road, Nagpur-9.





**Report on**

**One Day Workshop of Prolific Art**

Date : 21 December 2019



**Convener**

Dr. Mrs. S.D. Bhoyar



**Principal  
Principal**

Seval Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.

Seval Mahila Mahavidyalaya  
Nagpur





Sevadal Education Society's

NAAC RE-ACCREDITED WITH 'A' GRADE

# SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur-440024

<http://sevadalmaahilamahavidyalaya.ac.in>

## REPORT OF WORKSHOP ON CAKES AND CHOCOLATES

2019 - 2020



ORGANIZED BY

Faculty of Home Science

Department of Food and Nutrition



*[Signature]*  
**Principal**  
Sevadal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.



**ORGANISING COMMITTEE**

**[ PATRONS ]**  
**Hon'ble Shri Sanjayji Shende**  
 President, Sevadal Education Society, Nagpur

**Dr. (Mrs.) Kirantal Baral**  
 Secretary, Sevadal Education Society, Nagpur

**[ Chairman ]**  
**Prof. Pravin Charde,**  
 Principal, Sevadal Mahila Mahavidyalaya, Nagpur

**[ IQAC Coordinator ]**  
**Dr. Pravin Deshpande**

**[ Convenor ]**                      **[ Co-Convenor ]**  
 Dr. Mrs. Sadhana Bhoysar                      Dr. Mrs. Meghall Joharapurkar  
 (9766919347)    (9372578892)


**[ Organising Secretary ]**                      **[ Joint Organising Secretary ]**  
 Dr. Mrs. Neeta Tiwade                                      Dr. Mrs. Hemlata Padole  
 (9595448450)    (9423679919)

**[ Treasurer ]**  
 Dr. Mrs. Archana Ratankhiwar                      Dr. Mrs. Aparna Dhoble  
 (8928046517)    (9881373582)

**[ Members ]**  
 Mrs. Jyoti Kamble                                      Ms. Aboli Mahajan  
 (9804771662)    Ms. Vibha Nikalje  
 Mrs. Kalpana Joshi

**REGISTRATION FEE**  
 Faculty - Rs. 500/-                      Students - Rs. 300/-






Sevadal Education Society's  
NAAC RE ACCREDITED WITH 'A' GRADE  
**SEVADAL MAHILA MAHAVIDYALAYA**  
 Place for Higher Learning & Research (Research Academy)  
 Sakkardara Chowk, Umrer Road, Nagpur - 440 024 (M.S.) India  
www.sevadalmahilamahavidyalaya.ac.in | Email: sevamahilamw@gmail.com

**ONE DAY WORKSHOP ON  
 ENTREPRENEURIAL AVENUES  
 IN HOME SCIENCE**

21<sup>st</sup> December, 2019

Venue  
 Auditorium,  
 Sevadal Mahila Mahavidyalaya, Nagpur

Organized by  
 Department of Home Science  
 Sevadal Mahila Mahavidyalaya, Nagpur



**About College :**  
 Sevadal Mahila Mahavidyalaya and Research Academy, a renowned educational Institute was established in 1992, under the Founder Presidentship of Shri Keshavraoji Shende with the noble mission of imparting education to girl students. Education to women can change not only their lives but also of their entire family is a well-known proverb and the said cause is a mission of the Institution.

Presently, institution is marching ahead under the dynamic leadership of our President Hon'ble Shri Sanjayji Shende, who, by his administrative prowess radical, methods, spearheaded the institution to its glorious achievements.

At present, the college has been re-accredited by NAAC, Bangalore with 'A' Grade. Our college offers 33 programmes in the faculties of Science, Home Science and Social Science at Under-graduate and Post-graduate level. The college offers Doctoral research programmes in subjects Environmental Science, Zoology, Chemistry and Microbiology. The college has 8 major and 31 minor research projects to its credit. During last 5 years, more than 400 research papers in National and International referred Journals have been published.

**About Workshop:**  
 Home science is an interdisciplinary field of knowledge with focus on Food & Nutrition, Textiles and clothing, Human development, Resource Management and Extension Education. Familiarizing the students with the use of newer technologies, methods in family and community linkages and sustainable use of resources for human development are the hall mark of education in Home Science. All five windows of Home Science contribute significantly in economic development of every community, region and country. Like, in the health sector, innovation and entrepreneurship are of utmost importance to develop new business initiatives, which has a broad market and increasing demand. Workshop is an educational programme for a relatively small group of people that focuses especially on techniques and skills in a particular field. Attending workshop can help students to achieve success in their academic environment by putting skills into practice. It is beneficial for students to make new friends, acquire new skills, motivation to work and opportunities in new field.

Workshop raises immediate awareness and the skill of adaptability, empathy, critical thinking and optimism. Education, training and group learning helps to obtain constructive alternatives for doing the work.

It helps students to learn about particular subject, new projects. It also helps to achieve success in their academic environment by putting these skills into practice. Department of Home Science is going to conduct various workshops for the students.

1. Cakes and Chocolates
2. Innovative Techniques of Printing
3. Anti-social Behavior in Childhood
4. Prolific Art
5. Handmade Puppets

**21<sup>st</sup> December 2019**

<p>08.00am - 9.00am : Tea</p> <p>09.00am - 9.30am : Registration</p> <p>09.30am - 10.30am : Inauguration</p> <p>Chief Guest : Hon'ble Mrs. Shilpa Agrawal              Managing Director              Akash Furniture</p> <p>President : Hon'ble Shri Sanjayji Shende              President, Sevadal Education Society,              Nagpur</p> <p>Principal : Hon'ble Prof. Pravin Charde,              Principal, Sevadal Mahila              Mahavidyalaya, Nagpur</p> <p>11.00am - 02.00pm : Session - 1</p> <p>02.00pm - 02.30pm : Lunch Break</p> <p>02.30pm - 04.30pm : Session - 2</p> <p>04.30pm - 05.00pm : Valedictory Function</p> <p>05.00pm - 05.30pm : Certificate Distribution</p>	
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**Principal**  
 Sevadal Mahila Mahavidyalaya  
 Umrer Road, Nagpur-9.





Sevadal Mahila Mahavidyalaya and Research Academy, a renowned educational Institute was established in 1992, under the Founder President Shri Kesharaoji Shende with the noble mission of imparting education to girl students. Education to women can change not only their lives, but also of their entire family is a well-known proverb and the said cause is a mission of the Institution.

Presently, institution is marching ahead under the dynamic leadership of our President Hon'ble Shri Sanjayji

Shende, by his administrative prowess and radical methods, spearheaded the institution to its glorious achievements.

At present, the college has been re-accredited by NAAC, Bangalore with 'A' Grade. The college offers various programmes in the faculties of Science, Home Science and Social Science at Under-graduate and Post-graduate level. The college offers Doctoral research programmes in subjects Environmental Science, Zoology, Chemistry and Microbiology.





## INTRODUCTION

Entrepreneurship is the process of designing, launching and running a new business, which is often similar to a small business, or as the "capacity and willingness to develop, organize and manage a business venture along with its risks to make a profit."



In view to develop entrepreneurship within the students, a one day workshop was organized on "Entrepreneurial Avenues in Home Science" in the college campus. Under this theme, the Department of Food and Nutrition conducted workshop on "Cakes and Chocolates" for the students of B. Sc. Home Science in the Food and Nutrition Laboratory on 21st December, 2019.

The workshop was conducted to encourage the students for starting

their own business and become job givers and not job seekers and apart from this the aspirants were offered in-depth knowledge and hand's on training in the art of baking, confectionery, designing and marketing.

## AIMS AND OBJECTIVES

- The workshop will enable the students to be self-employed.
- To impart students basic knowledge relating to the principles of baking.
- To introduce them to the techniques of cake and chocolate making.
- To equip them with the necessary skills for cake and chocolate decoration and packaging.

## INAUGURAL FUNCTION

On the onset of inaugural function Dr.Mrs Meghali M. Joharapurkar welcome the guest and participants and foregrounds the theme of one day workshop on cakes and chocolates.



  
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At the first instance Mrs. Urvashi Ganorkar, a renowned, entrepreneur, who conducts classes on preparation of cakes and chocolates was introduced and felicitated by Dr. Mrs Meghali M. Joharapurkar on behalf of Department of Food and Nutrition, Sevadal Mahila Mahavidyalaya to conduct the workshop.

## WORKSHOP SESSION

Forty one students from B.Sc. Home Science participated in the workshop which was successfully conducted by Mrs. Urvashi Ganorkar. She had given live demonstration and explained in detail the modes of preparation of different types of cakes which includes Pineapple cake, Mango cake, Black forest cake, Mixed fruit cake and a beautiful icing to decorate the same.



Even a demonstration of preparation of chocolate of different types like fruit punch, almond rock and walnut weltage was given in the workshop.

At the time of live demonstration, the participants were given complete



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details about the procedure of preparation of cakes and chocolates. Even the students were asked to take part in preparing the cakes and chocolates and after preparation of cakes, icing was done on the cake.



It was an amazing workshop for students as they got immense, first-hand knowledge and it was helpful and understandable session by which depth procedure of preparation of cakes and chocolates was learnt by the participants. Students also exclaimed that it was an innovative workshop as complete processes with usual faults carried during preparation were explained to them.


A note on the importance of the workshop was rendered and it was an immense experience for all the participants. The participants noted that it is good to enter premier work, wherein cakes and chocolates can be prepared. The workshop was concluded by distribution of cakes and chocolates and even participants enjoyed the taste of the product prepared in the workshop.



## VALEDICTORY FUNCTION

The session was concluded with vote of thanks with the note for conducting a fruitful workshop for participants. This resulted in an interactive and engaging session and all appreciated the workshop conducted by the department.



  
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## LIST OF PARTICIPANTS

Sr. No.	Name of the Participants	Name of the College
1	Ku. Ravina V. Mehar	Sevadal Mahila Mahavidyalaya
2	Ku. Roshani A. Dhengre	Sevadal Mahila Mahavidyalaya
3	Ku. Rupali A. Shende	Sevadal Mahila Mahavidyalaya
4	Ku. Sakshi R. Khalartkar	Sevadal Mahila Mahavidyalaya
5	Ku. Sarika R. Suryawanshi	Sevadal Mahila Mahavidyalaya
6	Ku. Shivani R. Shahu	Sevadal Mahila Mahavidyalaya
7	Ku. Shrivanees S. Gathe	Sevadal Mahila Mahavidyalaya
8	Ku. Shruti A. Mane	Sevadal Mahila Mahavidyalaya
9	Ku. Simran D. Gaikwad	Sevadal Mahila Mahavidyalaya
10	Ku. Sneha V. Ghawade	Sevadal Mahila Mahavidyalaya
11	Ku. Sonali F. Kanoje	Sevadal Mahila Mahavidyalaya
12	Ku. Suhani M. Daberao	Sevadal Mahila Mahavidyalaya
13	Ku. Tanu P. Dandhare	Sevadal Mahila Mahavidyalaya
14	Ku. Tanvi R. Ingle	Sevadal Mahila Mahavidyalaya
15	Ku. Urvashi M. Ingalkar	Sevadal Mahila Mahavidyalaya
16	Ku. Urvashi S. Narole	Sevadal Mahila Mahavidyalaya
17	Ku. Vaishnavi A. Kambe	Sevadal Mahila Mahavidyalaya
18	Ku. Vishakha P. Adyalkar	Sevadal Mahila Mahavidyalaya
19	Ku. Zaheda Bi Zamir Ahmad	Sevadal Mahila Mahavidyalaya
20	Ku. Zeenat S. Rasool	Sevadal Mahila Mahavidyalaya
21	Ku. Rishika S. Bhomble	Sevadal Mahila Mahavidyalaya
22	Ku. Sakshi S. Onkar	Sevadal Mahila Mahavidyalaya
23	Ku. Samiksha D. Dongre	Sevadal Mahila Mahavidyalaya
24	Ku. Samikash P. Goliwar	Sevadal Mahila Mahavidyalaya
25	Ku. Samiksha P. Ubale	Sevadal Mahila Mahavidyalaya
26	Ku. Sayee M. Wankede	Sevadal Mahila Mahavidyalaya
27	Ku. Sayoni D. Bisen	Sevadal Mahila Mahavidyalaya
28	Ku. Seema J. Sheikh	Sevadal Mahila Mahavidyalaya
29	Ku. Sheetal S. Chauhan	Sevadal Mahila Mahavidyalaya
30	Ku. Shreya R. Sathwane	Sevadal Mahila Mahavidyalaya
31	Ku. Shreya V. Katyarmal	Sevadal Mahila Mahavidyalaya
32	Ku. Sidra A. Sheikh	Sevadal Mahila Mahavidyalaya
33	Ku. Sonali N. Pachpawar	Sevadal Mahila Mahavidyalaya
34	Ku. Surekha B. Dahare	Sevadal Mahila Mahavidyalaya
35	Ku. Swati D. Bhoyar	Sevadal Mahila Mahavidyalaya
36	Ku. Tabinda K. Sheikh	Sevadal Mahila Mahavidyalaya
37	Ku. Tinakshi S. Jagtap	Sevadal Mahila Mahavidyalaya
38	Ku. Trunali S. Wadichar	Sevadal Mahila Mahavidyalaya
39	Ku. Tripti J. Kokate	Sevadal Mahila Mahavidyalaya
40	Ku. Vaishnavi D. Bante	Sevadal Mahila Mahavidyalaya
41	Ku. Vaishnavi G. Kohale	Sevadal Mahila Mahavidyalaya

*M M Joharapurkar*

Dr. Mrs. Meghali M. Joharapurkar  
Co-convener



*Pravin Charde*  
Principal

Sevadal Mahila Mahavidyalaya

Sevadal Mahila Mahavidyalaya





Sevalal Education Society's

NAAC RE-ACCREDITED WITH 'A' GRADE

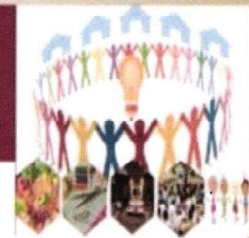
# SEVALAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umrer Road, Nagpur - 440 024

One Day Workshop On :

**ENTREPRENEURIAL AVENUES IN HOME SCIENCE**



## Certificate

This is to certify that Dr./Ms./Mrs. ....  
of ..... has  
actively participated in One Day Workshop on 'Entrepreneurial Avenues In Home Science' for students Organized  
by Department of Home Science, Sevalal Mahila Mahavidyalaya, Nagpur on 21<sup>st</sup> December 2019. She has  
participated in workshop on .....

Convener

Organising Secretary

Prof. Pravin Charde

Principal

Sevalal Mahila Mahavidyalaya, Nagpur



**Principal**  
Sevalal Mahila Mahavidyalaya  
Umrer Road, Nagpur-9.





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## IPR, RESEARCH METHODOLOGY AND RESEARCH WORKSHOPS

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2019-2020



### **Sevalal Mahila Mahavidyalaya**

**Place for Higher Learning & Research (Research Academy)**

**Sakkaradara Square, Umrer Road, Nagpur-440 024**

**E-mail: [sevamahilamv@gmail.com](mailto:sevamahilamv@gmail.com)**

**Website: [www.sevalalmahilamahavidyalaya.ac.in](http://www.sevalalmahilamahavidyalaya.ac.in)**

## PATENT FILLING

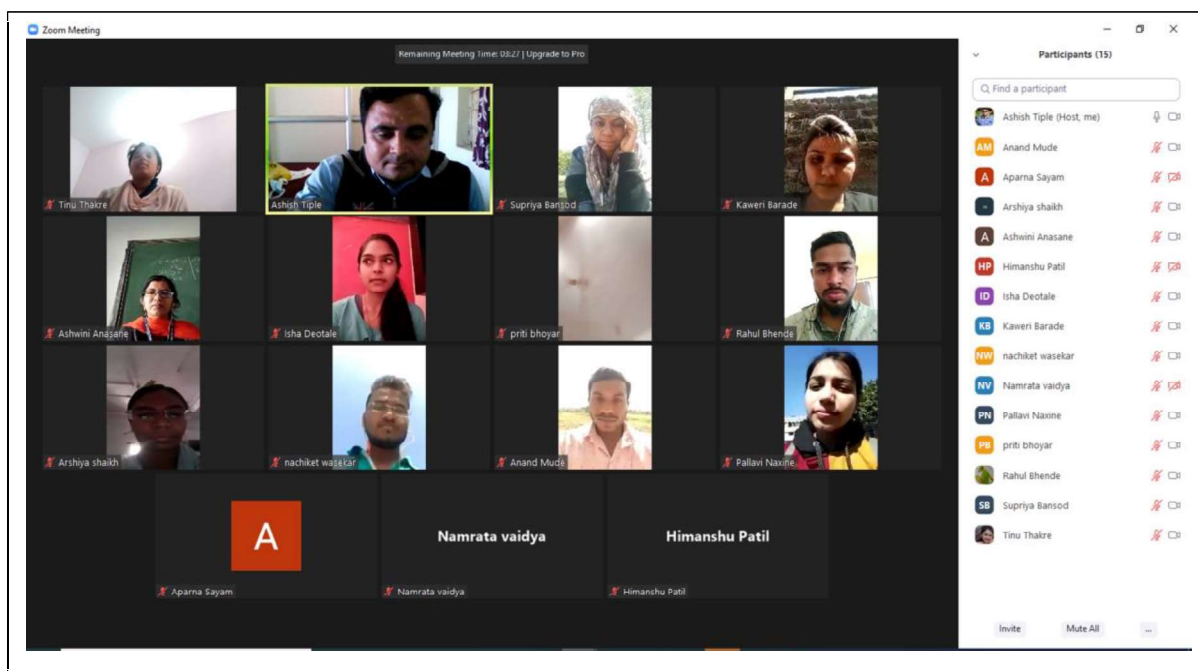
2019-2020

### Introduction:

Sevadal Mahila Mahavidyalaya, Nagpur succeeded in imprinting academic, social and competitive attitude in minds of students through its well qualified faculties and state of art infrastructure. We organize guest lectures, seminars, workshops and conferences to upgrade students' aptitude and Faculty Orientation to broaden their vision. Our endeavor is to create an institute that will provide a space for free and uninhibited thinking, a space where faculty and students can experiment with novel ideas without fear of failure. It is our firm belief that such an ambiance will foster highest level of research in our Institute.

On 03<sup>rd</sup> October, 2019 an online workshop on **Patent Filing** was conducted by Dr. Ashish D Tiple, Assistant Professor, Vidyabharti Mahavidyalaya, and Seloo

He gave a talk on diffent forms available for patent filling



FORM-1: APPLICATION FORM → FORM-2: PROVISIONAL OR COMPLETE SPECIFICATION → FORM-3: STATEMENT OF FOREIGN FILING → FORM-18: REQUEST FOR EXAMINATION → FORM-5: DECLARATION AS TO INVENTORSHIP (IF REQ.) → FORM-9: REQUEST FOR EARLY PUBLICATION (IF REQ.) → FORM-26: POWER OF



ATTORNEY ON STAMP PAPER(IF REQ.) → PROOF OF RIGHT TO APPLY (PARAGRAPH 9 OF FORM 1) → CERTIFIED COPY OF CONVENTION APPLICATION, IF REQ.

→ FORM-4: REQUEST FOR EXTENSION OF TIME → FORM-6: CHANGE IN APPLICANT  
→ FORM-7: NOTICE OF OPPOSITION (POST GRANT) → FORM-8: MENTIONING THE NAME OF THE INVENTOR → FORM-10: AMENDMENT OF PATENT (GRANTED TO DECEASED) → FORM-13: AMENDMENT OF THE APPLICATION/SPECIFICATION → FORM-15: RESTORATION OF PATENT → FORM-22: REGISTRATION OF PATENT AGENT → FORM-25: PERMISSION FOR MAKING PATENT APPLICATION OUTSIDE INDIA

Dr. Tiple gave a brief idea about Types of patent applications granted in India

1. Ordinary or Non-Provisional Application
2. Convention Application
3. PCT International Application
4. PCT National Phase Application
5. Patent of Addition
6. Divisional Application

#### 1. Ordinary or Non-Provisional Application

Ordinary or Non-Provisional application is filed if the applicant doesn't have any priority to claim or in a case where the application is not filed in pursuance of any preceding convention application. Non-provisional application, when filed, must be supported by a complete specification depicting the invention in detail.

#### 2. Convention Application

A convention application is filed for claiming a priority date based on the same or substantially similar application filed in any of the convention countries. The applicant is required to file an application in the Indian Patent Office within a year from the date of the initial filing of a similar application in the convention country.

#### 3. PCT International Application

A PCT Application is an international application to streamline patent application process in many countries at one go. It is governed by the Patent Cooperation Treaty and can be validated in up to 142 countries.

#### 4. PCT National Phase Application

A national phase application is filed in each of the country wherein the protection is sought. The national phase application must be filed within 30 or 31 months from the priority date or the international filing date, whichever is earlier.

## 5. Patent of Addition

The applicant can file a patent of addition if there is a modification of the invention which has already been applied for or patented. A patent of addition can only be granted after the grant of the parent patent; hence, no separate renewal fee is to be remitted during the term of the main patent.

## 6. Divisional Application

Divisional application is filed if the applicant wishes to divide an application to furnish two or more applications if a particular application claims for more than one invention. The priority date for divisional application is similar to that of the parent application.

Criteria for a patent to be granted

- **Novelty:** According to Section 2(1)(j) of the Indian Patent Act, "invention" is a new product or process involving an inventive step and capable of industrial application. Further, Section 2(1) of the Act defines 'new invention' as any invention or technology which has not been anticipated by publication in any document or used in the country or elsewhere in the world before the date of filing of patent application with complete specification, i.e., the subject matter has not fallen in public domain or that it does not form part of the state of the art.
- **Inventive Step:** According to Section 2(1) (ja) "inventive step" means a feature of an invention that involves technical advance as compared to the existing knowledge or having economic significance or both and that makes the invention not obvious to a person skilled in the art.
- **Industrial Application:** The third criterion of patentability is that the invention should be capable of industrial application. Section 2(1)(ac) of the Patents Act, 1970, defines "Capable of Industrial application" in relation to an invention as the invention is "capable of being made or used in an industry." Therefore, to be patentable, an invention must be useful.







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## IPR, RESEARCH METHODOLOGY AND RESEARCH WORKSHOPS

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2020-2021



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**Website: [www.sevalalmahilamahavidyalaya.ac.in](http://www.sevalalmahilamahavidyalaya.ac.in)**

## RESEARCH METHODOLOGY

2020-21

### Introduction:

Sevadal Mahila Mahavidyalaya, Nagpur succeeded in imprinting academic, social and competitive attitude in minds of students through its well qualified faculties and state of art infrastructure. We organize guest lectures, seminars, workshops and conferences to upgrade students' aptitude and Faculty Orientation to broaden their vision. Our endeavor is to create an institute that will provide a space for free and uninhibited thinking, a space where faculty and students can experiment with novel ideas without fear of failure. It is our firm belief that such an ambiance will foster highest level of research in our Institute.

On 11<sup>th</sup> Jan, 2021 an online workshop on **Research Methodology** was conducted by Dr. Ashish D Tiple, Assistant Professor, Vidyabharti Mahavidyalaya, and Seloo. He stated that A research methodology gives research legitimacy and provides scientifically sound findings. It also provides a detailed plan that helps to keep researchers on track, making the process smooth, effective and manageable. A researcher's methodology allows the reader to understand the approach and methods used to reach conclusions.

Having a sound research methodology in place provides the following benefits:

- Other researchers who want to replicate the research have enough information to do so.
- Researchers who receive criticism can refer to the methodology and explain their approach.
- It can help provide researchers with a specific plan to follow throughout their research.
- The methodology design process helps researchers select the correct methods for the objectives.
- It allows researchers to document what they intend to achieve with the research from the outset.

### Types of research methodology

When designing a research methodology, a researcher has several decisions to make. One of the most important is which data methodology to use, qualitative, quantitative or a combination of the two. No matter the type of research, the data gathered will be as numbers or descriptions, and researchers can choose to focus on collecting words, numbers or both.

Here are the different methodologies and their applications:

#### Qualitative



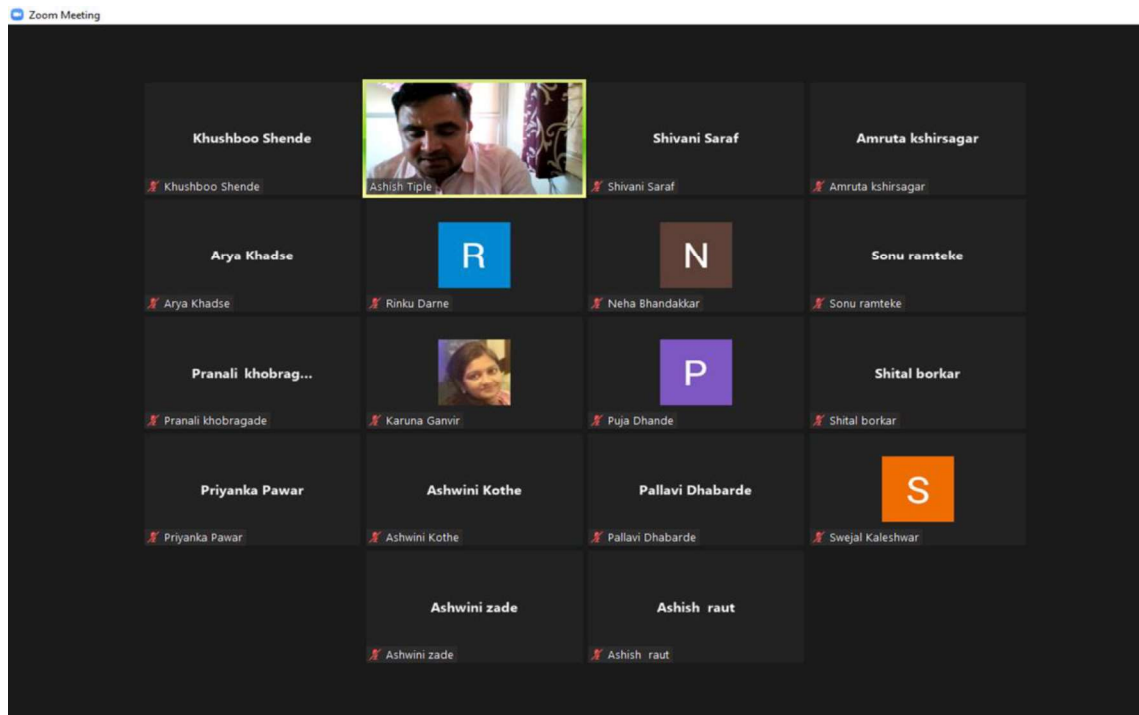
Qualitative research involves collecting and analyzing written or spoken words and textual data. It may also focus on body language or visual elements and help to create a detailed description of a researcher's observations. Researchers usually gather qualitative data through interviews, observation and focus groups using a few carefully chosen participants.

This research methodology is subjective and more time-consuming than using quantitative data. Researchers often use a qualitative methodology when the aims and objectives of the research are exploratory. Researchers usually use a quantitative methodology when the objective of the research is to confirm something. It focuses on collecting, testing and measuring numerical data, usually from a large sample of participants. They then analyze the data using statistical analysis and comparisons. Popular methods used to gather quantitative data are:

- Surveys
- Questionnaires
- Test
- Databases
- Organizational records

This research methodology is objective and is often quicker as researchers use software programs when analyzing the data. An example of how researchers could use a quantitative methodology is to measure the relationship between two variables or test a set of hypotheses.

Workshop ended with Thanks to Principal & IQAC coordinator



## PATENT FILLING

2020-2021

### Introduction:

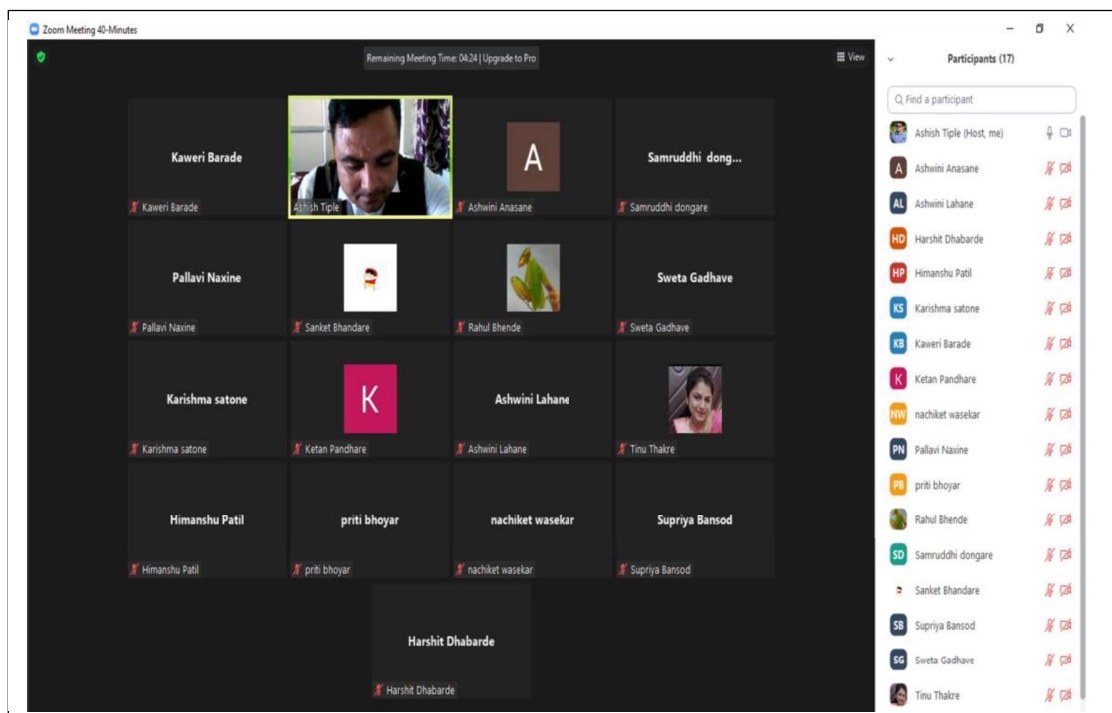
Sevadal Mahila Mahavidyalaya, Nagpur succeeded in imprinting academic, social and competitive attitude in minds of students through its well qualified faculties and state of art infrastructure. We organize guest lectures, seminars, workshops and conferences to upgrade students' aptitude and Faculty Orientation to broaden their vision. Our endeavor is to create an institute that will provide a space for free and uninhibited thinking, a space where faculty and students can experiment with novel ideas without fear of failure. It is our firm belief that such an ambiance will foster highest level of research in our Institute.

On 24<sup>th</sup> April, 2021 an online workshop on **Patent Filling** was conducted by Dr. Ashish D Tiple, Assistant Professor, Vidyabharti Mahavidyalaya, and Seloo.

He has given a complete insight on following points

- Introduction
- Who may apply for a Patent?
- Different types of Applications under The Patents Act, 1970
  - Convention Application:
  - International Application:
  - Divisional Application:
  - Application for Patent of Addition:
- Form of Application for a Patent
  - Ordinary Application
  - Convention Application
- What Constitutes a Specification?
- Priority Date
  - When a Complete Specification is filed in Pursuance of a Single Application:
  - When a Complete Specification is furnished in Pursuance of Two or More Applications:
  - When Complete Specification is filed based on a Previously Filed Application[10]:
  - When a Complete Specification is filed in Pursuance of Further Application:

- Priority Date in Other Cases:
- Priority Date in Case of Convention Application:
- Publication of Application
- Examination of Application
- Anticipation
  - Anticipation by Previous Publication:
  - Anticipation by Previous Communication to Government:
  - Anticipation by Public Display:
  - Application by Use and Publication of Provisional Specification
- Opposition to the Patent
  - Pre-grant Objection
  - Post-grant Objection
- Grant of Patent









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## IPR, RESEARCH METHODOLOGY AND RESEARCH WORKSHOPS

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2021-2022



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## PUBLICATION ETHICS AND FREE JOURNALS

2021-2022

### Introduction:

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On 20<sup>th</sup> Jul, 2021 an online workshop on **Publication ethics and Free Journals** was conducted by Dr. Ashish D Tiple, Assistant Professor, Vidyabharti Mahavidyalaya, and Seloo. He stated that believe that ethical publishing leads to a better science community, where everyone is valued and everyone is responsible for the work they do.

### 10 publishing ethics tips for authors

1. Declare to your chosen journal that your manuscript is not published elsewhere
2. Declare any conflicts of interest
3. Check all co-authors meet criteria for authorship and ensure appropriate acknowledgements made in the manuscript
4. Include appropriate funding statements in the manuscript
5. Show informed consent and provide assurances that participants' rights are protected\*
6. Register clinical trials\*
7. Explain how research using animals is conducted responsibly\*
8. Be alert to bias and follow guidelines for accurate and complete reporting of research
9. Inform the journal if you subsequently find errors in your research
10. Sign a copyright agreement

**Ethics or moral philosophy** is a branch of philosophy that "involves systematizing, defending, and recommending concepts of right and wrong behavior". The field of ethics, along with aesthetics, concerns matters of value; these fields comprise the branch of philosophy called axiology.

Ethics seeks to resolve questions of human morality by defining concepts such as good and evil, right and wrong, virtue and vice, justice and crime. As a field of intellectual inquiry, moral philosophy is related to the fields of moral psychology, descriptive ethics, and value theory.

1. Meta-ethics, concerning the theoretical meaning and reference of moral propositions, and how their truth values (if any) can be determined;
2. Normative ethics, concerning the practical means of determining a moral course of action;



3. Applied ethics, concerning what a person is obligated (or permitted) to do in a specific situation or a particular domain of action.

Moral skepticism (or moral scepticism) is a class of metaethical theories in which all members entail that no one has any moral knowledge. Many moral skeptics also make the stronger, modal claim that moral knowledge is impossible. Moral skepticism is particularly against moral realism which holds the view that there are knowable and objective moral truths.

Some proponents of moral skepticism include Pyrrho, Aenesidemus, Sextus Empiricus, David Hume, Max Stirner, Friedrich Nietzsche, and J.L. Mackie.

Moral skepticism is divided into three sub-classes:

- Moral error theory (or moral nihilism).
- Epistemological moral skepticism.
- Non-cognitivism.

All of these three theories share the same conclusions, which are as follows:

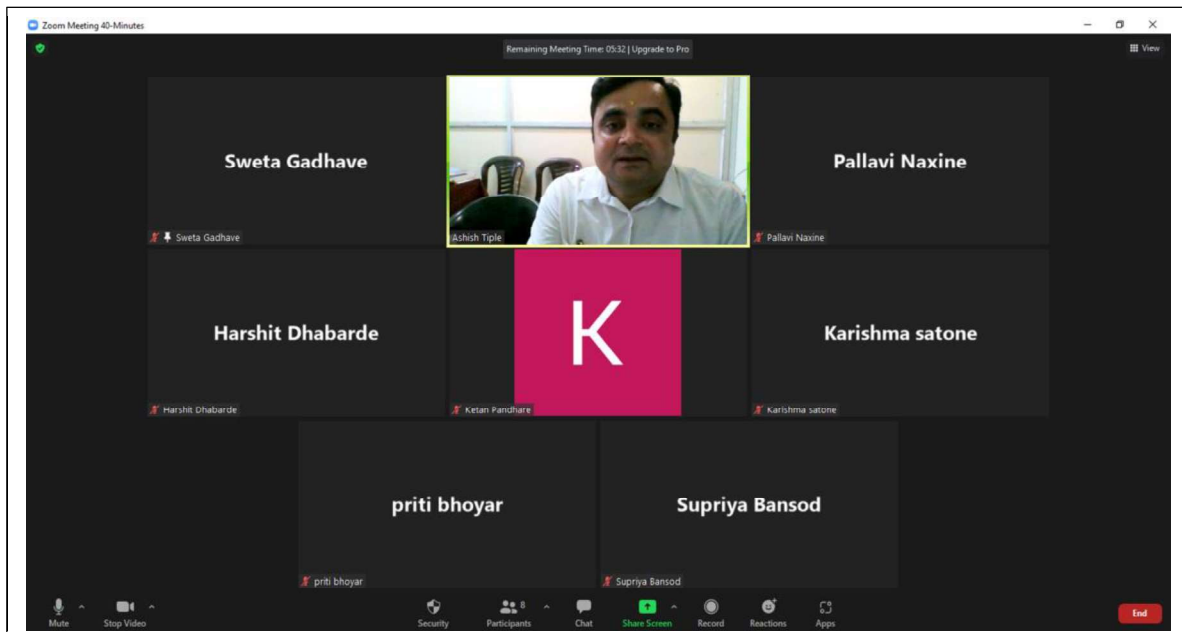
(a) We are never justified in believing that moral claims (claims of the form "state of affairs x is good," "action y is morally obligatory," etc.) are true and, even more so

(b) We never know that any moral claim is true.

However, each method arrives at (a) and (b) by different routes.

Moral error theory holds that we do not know that any moral claim is true because

- (i) All moral claims are false,
- (ii) We have reason to believe that all moral claims are false, and
- (iii) Since we are not justified in believing any claim we have reason to deny, we are not justified in believing any moral claims.



## ENTREPRENEURIAL AVENUES FOR PG BOTANY STUDENTS

2021-2022

### Introduction:

Dr. K J Cherian, Ex Principal, D R B Sindhu Mahavidyalaya, Nagpur demonstrated students with **Entrepreneurial Avenues in Nursery Development and Mushroom Cultivation** in a day long Workshop with Live demonstration

He said Nursery is a place where planting material, such as seedlings, saplings, cuttings, etc., are raised, propagated and multiplied under favourable conditions for transplanting in prepared beds. The availability of quality and true-to-type planting material is the prerequisite of successful and remunerative ornamental crop production. Setting up of a nursery is a long-term venture, and requires planning and expertise. In a nursery, plants are nurtured by providing them with optimum growing conditions to ensure germination. Nursery saves considerable time for the raising of the next crop. Among flower crops, majority of the annuals are propagated by seeds and require a nursery for raising the seedlings. Herbaceous perennials need nurseries for sowing of seeds and planting of cuttings for rooting and establishment. Woody perennials are grown from seeds for multiplying the rootstocks from cuttings, layers and through grafts to perpetuate the same genetic properties.

**Soil** The soil must preferably be loam or sandy loam with large quantity of organic matter. The pH of the soil must be near neutral (6.5 – 7.5). It must have adequate water retention capacity and aeration. **Water** the quality of water used in a nursery is important for the growth of plants. Saline and polluted water must not be used. It must be ensured that there is adequate water supply for irrigation. Besides, the nursery must be located near a water source so that there is no water scarcity at any time in the course of raising plants. **Drainage** The nursery site must have adequate drainage facility and be free from waterlogging. Water must not stagnate at any time. **Transportation** The nursery site must be accessible by road. It must not be far from potential markets so that there is no damage to the seedlings during transportation. **Labour** As nursery work is labour-intensive, the nursery site must have enough number of labourers.

**Ornamental nursery** Seedlings, rootstock and scion material of ornamental plants are raised and conserved for further use in such a nursery. It includes mother blocks of ornamental plants, which are used in layering, as well as, producing scion material for budding and grafting. The raised and flat beds of the nursery are occupied by seedlings of various annuals, perennials and rootstocks of ornamentals. A separate block of the nursery consists of vegetative and reproductive phase of bulb and tuber crops. Cuttings of different climbers and creepers are also planted here for rooting. An ornamental nursery also houses many indoor and outdoor potted plants. The blocks of seedlings of cut and loose flowers, seasonal, bonsai, climbers and creepers are managed individually here.

**Nursery bed:** It refers to a land, which is made free from weeds, stumps, stones, pebbles, etc., and is used for sowing of seeds to raise seedlings and multiplication of different species of plants through asexual means.



**Level bed** • The soil of the seedbed must be sterilised by soil solarisation or with chemicals to avoid contamination by pests and diseases. • After soil preparation, the recommended dose of manure and fertilisers is mixed in the nursery bed. • For efficient management, the whole area is divided into uniform size of small beds. • Usually, a flat bed is 1-metre wide and has length according to the slope of the field. • Irrigation channels are prepared between the rows of the beds through which each bed is connected. These also act as drainage channels in case of heavy rain or excess irrigation. • Such a bed is prepared during non-rainy season (summer and winter) so that there is no waterlogging. • Adequate drainage provision is made and preference for sandy or sandy loam soil is given when preparing a flat bed.



Pots Ornamental plants are grown in a variety of pots, depending on the choice of a person, including plastic, clay, cement, ceramic, etc. Pots are used for growing house plants (indoor and outdoor). Clay pots are the most popular, easily available, highly porous and cheaper than other type of pots. Size is an important factor while selecting pots. For specimen plant display, the pot size needs to be at least 30 cm in diameter. The size of the plant and its growth habit are to be considered before selecting a pot. Potting refers to transferring of plants from seedbed or poly-bags to pots, containing the potting mixture.

The pot needs to be watered before de-potting. The pot is lifted by the right hand palm spread over the top of the soil, holding the stem between the second and third finger, and the thumb along the side of pot. The pot is then turned upside down. If necessary, a gentle tap is given on the rim of the inverted pot against a solid base or on the edge of bench to loosen the earth ball. The whole earth ball with the intertwining roots of the plant will come out as a single piece and kept outside carefully. Before transferring the plant to a new pot, the lower old and finer roots along with some old potting mixture are removed.

Hardening of seedlings Seedlings must be hardened-off (acclimatised) in partial shade before being planted in the main field so that they can survive the harsh open climatic conditions. Generally, hardening is done before transplanting in the open field by gradually exposing the seedlings from lower to higher temperature. Over-hardening of the seedlings must be avoided. Staking Staking is a practice to support plants growing straight and saving them from bending or lodging. This is done at a time when the plants are not too tall. It saves the plants from being blown over due to wind and rain, and also because of the weight of its stems when in bloom. It is useful in potted plants, as well as, grafted and budded plants. Bamboo is the most common plant where staking is used. Other than this, the branches of shrubs and trees, i.e., neem, subabool, phalsa, eucalyptus, etc., can also be used for this purpose. De-shooting De-shooting refers to the removal of all side shoots (offshoots, offsets or keikis) emerging from the base of a plant. The main purpose of de-shooting is to divert the energy of the plant towards the development of its shoots or buds. Disbudding Disbudding is the removal of floral buds when a large flower on a plant is desired, for example chrysanthemum and dahlia. The energy saved by disbudding is diverted towards the development of the retained bud so that the flowers become large and vigorous. Generally, it is followed in large flower varieties. In carnations, disbudding is practised to obtain long stalks with larger blooms. Pinching It refers to the removal of growing tips of vegetative buds to promote bushy growth for more lateral formation and precocious flowering as in case of chrysanthemum. It is the removal of 3–5 cm growing tips when the plants are 8–10 cm tall, i.e., when they are about one-month old. The second pinching takes place about three weeks after the first pinching. Pinching is also a common practice in carnation and marigold. Pruning The planned removal of twigs, branches, shoots, limbs or roots in plants is termed as ‘pruning’. Pruning is done to increase the usefulness of the plants.

## MUSHROOM CULTIVATION

Mushrooms are ideal food for all sorts of patients due to its high value of protein, vitamins, minerals along with low fat & carbohydrates. Its high crude fibre content makes easy bowel movement and high digestion . Thus it makes the body strong to fight all sorts of illness.

1. *Auricularia dimidate*- Pile, Lower Cholesterol
2. *Volverella volvacea*- Inhibits respiration in tumor cell
3. *Pleurotus sajor caju*- Chronic Liver failure
4. *Gonoderma nutriceuticals*- HIV, Hepatitis
5. *Agaricus bisporus*- Hypertension
6. *Pleurotus spp*- Muscle,Joint relaxation
7. *Calvatia gigantia*- Calvacin –Antitumour
8. *Aurieularia polytriha*- Improve blood circulation
9. *Gonoderma lucidium*- Rejuvenate neurasthsia
10. *Grifola frondsa*- Strengthen resistance
11. *Hericiium erinaceus*- Heart ,Liver
12. *Lentinus edodes*- Spleen ,Lung
13. *Tremella fuciformis*- Heart ,Kidney, Lung
14. *Tricholoma monogolicium*- Stomach & Intestine



Bagging



Packing of Bags for Mushroom Cultivation