



**Faculty Development Programme
on**

RESEARCH METHODOLOGY

26 - 28 December 2024



Organized under DBT Star College Scheme

Organised by

**Marathwada Shikshan Prasarak Mandal's
SHRI SHIVAJI COLLEGE, PARBHANI**

**Affiliated to Swami Ramanand Teerth Marathwada
University, Nanded**

NAAC Accreditation: A+ Grade UGC: CPE

FACULTY DEVELOPMENT PROGRAMME ON RESEARCH METHODOLOGY

26th to 28th DECEMBER 2024

Inaugurator

Hon. Dr. B.U. Jadhav

Principal,
Shri. Shivaji College, Parbhani

Chief guest

Hon. Hemantrao Jamkar

Head Member CDC

Dr. S. N. Keshatti

Vice- Principal,
Star DBT Scheme Coordinator

Dr. R.S. Nitonde

Vice- Principal

Dr. U.B. Kittekar

IQAC Coordinator

Resource persons

Dr. S.B. Kishor

Associate Prof,
Head Department of Computer Science
Sardar Patel Mahavidyalaya, Ganj Ward, Chandrapur

Dr. Ashok Gingine

Associate Prof,
Department of Education,
SRTMU, Nanded

FDP Course Coordinator

Dr. S. N. Keshatti

Vice- Principal,
Star DBT Scheme Coordinator

Mrs. M.A. Bhate

HOD,
Dept. of Microbiology

Dr. S.V. Syed

HOD,
Dept. of Botany

Schedule

FDP on Research Methodology

Inauguration

Date: 26/12/2024

Inaugural Session- 2.00 p.m. to 2.30 p.m.

**Welcome & Introduction of FDP – Dr. S. N. Keshatti
(Vice- Principal), Star DBT Scheme Coordinator**

Chairperson: Dr. B.U. Jadhav (Principal, Shri. Shivaji College, Parbhani)

Chief Guests

Hon. Hemantrao Jamkar (LGC Member)

Dr. R.S. Nitonde (Vice- Principal)

Dr. U.B. Kittekar (IQAC Coordinator)

FDP Course Coordinator- Mrs. M.A. Bhate (Dept. of Microbiology)

- Dr. S.V. Syed (Dept. of Botany)

Chairperson's Remark: Dr. B.U. Jadhav (Principal, Shri. Shivaji College, Parbhani)

Vote of Thanks: Dr. S. V. Syed

Session I

Date: 26/12/2024

Time: 2.30 p.m. to 4.00 p.m.

Session Coordinator: Mrs. M.A. Bhate

Resource Person: – Dr. S.B. Kishor

Associate Prof, Head Department of Computer Science

Sardar Patel Mahavidyalaya, Ganj Ward, Chandrapur

Topic: Integrating AI tools for Effective Academic writing

Introduction to the Resource Person- Dr. R.D. Joshi

Vote of Thanks: Miss. Deshmukh D.S.

Session II

Date: 26/12/2024

Time: 4.00 p.m. to 5.30 p.m.

Session Coordinator: Dr. S.V. Syed

Resource Person: – Dr. Ashok Gingine

Associate Prof, Department of Education, SRTMU, Nanded

Topic: Role of Research hypothesis & research variables in research process & testing of hypothesis

Introduction to the Resource Person – Mrs. Naaz Syed

Vote of Thanks: Mrs. Naaz Syed

Schedule

FDP on Research Methodology

Day 2

Date - 27/12/2024

Session - I

Time: 2.30pm to 4.00pm

Session Coordinator: Prof Dr. H. S. Jagtap

Resource Person: Dr. P. S. Wakte

Prof & Head, Department of Microbiology, D. S. M. College, Parbhani

Topic: Research Methodology in Science Streams

Introduction to Resource Person: Dr. S. M. Yeole

Vote of Thanks: Miss. P. A. Shewale

Session - II

Time: 4.00pm to 5.30pm

Session Coordinator - Prof. Dr. S. D. Ahirrao

Resource Person: Dr. Neetu Kalra

Faculty, Azim Premji University, Bhopal (Madhya Pradesh)

Topic: Research Methodologies and its Implications in Science Education

Introduction to Resource Person: Dr. M. U. Bansode

Vote of thanks: Miss. P. A. Shewale

Day 3

Session - I

28/12/2024

Time- 2.30 pm 4.00 pm.

Session Coordinator- Prof. Dr. G.B. Gundlewad.

Resource person-Dr. M.M. Betkar Ex. Principal, Kumar Swami
Mahavidyalaya., AUSA, Latur.

Topic- Copy right, IPR & Patent filing in India.

Introduction to Resource person: Prof. Dr. S.B. Ade

Note of Thank - Dr. P. R. Jagtap

Session-II

Time- 4.00 pm to 5-30pm

Resource person - Dr. Kartik Pannikar, Head, Department of English.
J M Patel Arts, Commerce & Science College, Bhandara.

Topic:- Research Ethics

Introduction to Resource person- Dr. P. K. Wibhute

Vote of Thank- Dr. Ms. Jadhav.

Valedictory function

Vote of Thank - Prof. Dr. G.B. Gundlewad

Summary Report on Three Days Online Faculty Development Programme on “Research Methodology” 26-28 December 2024

The Department of Microbiology & Botany had jointly organized three days Online Faculty Development Program on “Research Methodology” 26-28 December 2024, under Star DBT College scheme for all faculty members & research scholars. This online Faculty Development Programme (FDP) on Research Methodology aimed to enhance participants' research skills and knowledge in various aspects of the research process, including problem formulation, data collection, analysis, and writing. Six eminent speakers from various educational institutes were invited to share their wisdom and knowledge on the topic. A total 155 participants were attended the programme.

The first day sessions were conducted by **Department of Microbiology & Botany** on 26 Dec-2024. The speaker of the session I was Dr. S.B.Kishor, Associate Prof, Head Department of Computer Science, Sardar Patel Mahavidyalaya, Ganj Ward, Chandrapur, Maharashtra, was delivered his talk on the topic **“Integrating AI tools for Effective Academic Writing”** and narrated that the significance of AI in scientific research. The second speaker Dr. Ashok Gingine, Associate Prof, Department of Education, SRTMU, Nanded, was delivered his talk on **“Role of Research hypothesis & research variables in research process & testing of hypothesis”**.

The second day sessions were conducted by **Department of Zoology & Fishary Science** on 27 Dec-2024. The speaker of the session I was Dr. P.S. Wakte, Prof & Head Department of Microbiology, DSM College, Parbhani, Maharashtra, was delivered his talk on the topic **“Research Methodology on Science streams”**. The second session was delivered by Dr. Neetu Kalra, Faculty, Azim Premji University, Bhopal, Maddhya Pradesh, on the topic **Research Methodologies & its implication in Science Education**.

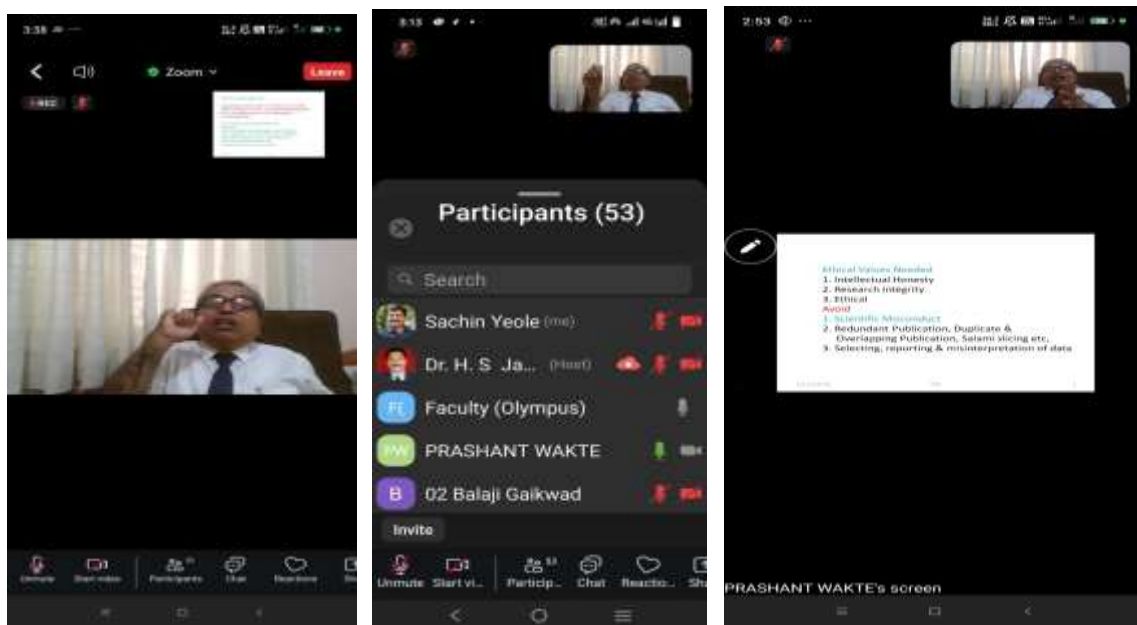
Third Day of the FDP was conducted by **Department of Chemistry and Analytical Chemistry on 28th December 2024**. Dr. M.M. Betkar, Ex. Principal, Kumar Swami Mahavidyalaya, Ausa, Latur, conducted the first session on the topic **Copyright, IPR & Patent Filing in India**. The second session focused on the crucial topic of **Research Ethics**, by the eminent speaker Dr. Kartik Pannikar, Head, Department of English, J M Patel Arts, Commerce & Science College, Bhandara.

The FDP programme experienced an overwhelming response from faculty & aspiring researchers. The queries of participants were well addressed by the speakers. The feedback claims that participants found this FDP quite beneficial for improving research activities.

An e-certificate was also issued to the participants who successfully completed the programme.



Prof Dr. P. S. Wakte – Resource Person



The Difference Between Hypothesis And A Problem

- Both hypothesis and a problem contribute to the body of knowledge which supports or refutes an existing theory.
- Hypothesis differs from a problem.
- **A problem is formulated in the form of a question; it serves as the basis or origin from which a hypothesis is derived.**
- Hypothesis is a suggested solution to a problem.

Prof Dr. Neetu Kalra – Resource Person

The screenshot shows a Zoom meeting interface. The main content is a slide with the following text and diagrams:

Hypothesis → **Experiment** → **Result**

Hypothesis: O₃ are destroying the ozone layer.

Experiment: O₃ are destroyed in the upper atmosphere but more O₃ will be present at lower altitudes.

Result: A graph showing O₃ concentration vs. altitude, with a red curve showing a dip in the stratosphere.

In 1975, using high-flying aircraft- and balloon-borne instruments, two independent groups of scientists measured CPC concentrations at different altitudes.

According to the models, CFCs should be completely unaffected in the lower atmosphere but destroyed by solar radiation at higher altitudes.

The Zoom interface includes a 'Leave' button, a 'Zoom' logo, and a video thumbnail of Prof. Dr. Neetu Kalra. The bottom toolbar shows options like 'Mute', 'Start video', 'Participants', 'Chat', 'Reactions', 'Share', 'Record', and 'Captions'.