



ST. WILFRED'S COLLEGE OF ARTS, COMMERCE & SCIENCE

(Affiliated to Mumbai University)

Opp. Ayush Resort, Near Shedung Toll Plaza, Old Mumbai-Pune Highway, Panvel, Navi Mumbai-410206
Ph. No. +91-8655678500, 9699625148 • College Code 1033 • E-mail: stwilfred.acs@gmail.com • website : www.stwilfreds.org

Value Added Course “Scientific Research Methods”

February 20, 2023 to April 8, 2023

Coordinated By- Department of Science

Faculty Name- Dr. Jaishri Saxena



St. Wilfred's College of Arts, Commerce & Science



Arishita

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Ref. No. SWACS/PAC/2022/02

Date: 03/11/2022

NOTICE

It is to inform all the members of Program Academic Advisory Cell (PAC) that there will be a meeting on 04/11/2022 at 12.00 PM in Seminar Room to discuss about the various academic activities for the upcoming session. All concerned are requested to attend the meeting on time and be prepared to contribute to the discussion.

Principal



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CIRCULAR

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Meeting Minutes

Date 04/11/2022

Time: 12:00 PM

Place: Seminar Room

Attendees:

S.No.	Name	Designation	Signature
1.	Dr. Anirudha Rishi	Principal	Anirudha
2.	Dr. Ketan Patil	Head, Dept. of Science	Ketan
3.	Dr. Nikhita Mathur	Head, Dept. of IT & Computer Science	Nikhita
4.	Mr. Prakash Jawahire	Head, Dept. of Commerce	Prakash
5.	Dr. Madhav Mathur	Head, Dept. of Management	Madhav
6.	Dr. Neeta Birari	Head, Dept. of Humanities	Neeta
7.	Dr. Nidhi Mathur	Head, Dept. of Chemistry	Nidhi
8.	Ms. Aparna jaware More	Head, Dept. of Physics	Aparna
9.	Ms. Anjali Patil	Head, Dept. of English	Anjali

Agenda:

1. To organize Alumni, meet and farewell for the final year students.
2. To conduct student exit survey.
3. To discuss important questions for examination.
4. Soft skills training for placement and internship.
5. Analysis of slow learner and their mentoring.
6. To discuss about the conduction of practical examination.
7. Submission of dissertation and projects by students.
8. To organize seminars by final year students.
9. To conduct remedial classes for weak learners on difficult topics on Saturdays.
10. To organize science exhibition, Panache, departmental quizzes, Industrial trips, surveys etc.
11. To organize Value added courses for next Semester Students

Minutes:

The meeting was called to order by Principal at 12.PM in Seminar Room. The attendees were welcomed, and the agenda for the meeting was presented.

1. **To organize Alumni, meet and farewell for the final year students:** The Principal proposed organizing an Alumni meet to facilitate interactions between current students and successful graduates. The event will serve as an opportunity for networking, mentorship, and sharing experiences. Additionally, a farewell program will be arranged.



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1. **To organize Alumni, meet and farewell for the final year students:** The Principal proposed organizing an Alumni meet to facilitate interactions between current students and successful graduates. The event will serve as an opportunity for networking, mentorship, and sharing experiences. Additionally, a farewell program will be arranged to bid farewell to the final year students and celebrate their achievements. The specific dates and details of these events will be decided in consultation with the concerned faculty members and student representatives.
2. **To conduct student exit survey:** The Principal suggested conducting a student exit survey to gather feedback from graduating students. The survey will focus on their overall college experience, including academic programs, infrastructure, faculty support, extracurricular activities, and placement opportunities. The feedback received will help in assessing the college's strengths and areas for improvement.
3. **To discuss important questions for examination:** The Principal highlighted the need to discuss and finalize the important questions for the upcoming University examination. Faculty members were encouraged to collaborate and share their expertise in determining the key topics and questions that students should focus on during their exam preparation. This will ensure that students are well-prepared for the examination.
4. **Soft skills training for placement and internship:** To enhance students' employability and prepare them for the professional world, the Principal proposed conducting soft skills training programs. These programs will focus on improving students' communication skills, teamwork abilities, time management, and overall personality development.
5. The training will specifically target placement and internship opportunities, equipping students with the necessary skills to succeed in their future careers.
6. **Analysis of slow learners and their mentoring:** The Principal emphasized the importance of identifying and addressing the needs of slow learners. It was suggested to analyze the performance and progress of such students and provide them with personalized mentoring and support. Faculty members were requested to closely monitor the academic progress of slow learners and implement strategies to help them overcome their challenges.
7. **To discuss the conduction of University practical examination:** The Principal proposed a discussion on the conduction of practical examinations. The logistics, evaluation criteria, and assessment procedures for the practical exams will be determined and communicated to the faculty members. It was emphasized that the practical examinations should provide a fair and comprehensive assessment of students' practical knowledge and skills.




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8. **Submission of dissertations and projects by students:** The Principal reminded the faculty members about the submission deadline for dissertations and projects by the students. Clear instructions and guidelines regarding the format, content, and submission process should be provided to the students to ensure a smooth submission process.
9. **To organize seminars by final year students:** To showcase the research and academic achievements of the final year students, the Principal suggested organizing seminars where they can present their findings and share their knowledge with the college community. This will provide a platform for intellectual exchange and foster a culture of academic engagement.
10. **To conduct remedial classes for weak learners on difficult topics on Saturdays:** The Principal recommended organizing remedial classes on Saturdays to provide additional support to weak learners. These classes will focus on addressing difficult topics and concepts, helping students overcome their challenges and improve their understanding. Faculty members were encouraged to volunteer and contribute to these remedial classes.
11. **To organize science exhibition, Panache, departmental quizzes, industrial trips, surveys, etc.:** The Principal proposed organizing various extracurricular activities and events, such as science exhibitions, cultural events like Panache, departmental quizzes, industrial trips, and surveys. These activities will provide students with opportunities for practical learning, creative expression, and holistic development.
12. **To organize Value added courses for next Semester Students**
The Principal elaborated on the importance of providing value-added courses to enhance the academic experience and skill set of students. Various suggestions were put forth regarding the types of value-added courses that could be beneficial for next Semester students. Suggestions included courses related to communication skills, coding, financial literacy, and career development.

Action Items:

1. The Principal will coordinate with faculty members and student representatives to finalize the dates and details of the Alumni meet and farewell program.
2. Faculty members will develop and conduct the student exit survey, ensuring comprehensive feedback is collected.
3. Faculty members will collaborate to finalize important questions for the upcoming examination.
4. The administration will organize soft skills training programs, focusing on placement and internship opportunities.
5. Faculty members will identify slow learners, provide personalized mentoring, and monitor their progress.
6. Faculty members will discuss and plan the conduction of practical examinations, ensuring fairness and thorough assessment.

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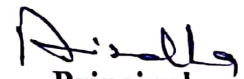
7. The administration will remind students about the submission deadline for dissertations and projects, providing clear guidelines.
8. The administration will facilitate the organization of seminars by final year students, allowing them to showcase their research and knowledge.
9. Faculty members will schedule remedial classes for weak learners on Saturdays, focusing on difficult topics.
10. The administration will coordinate the organization of science exhibitions, Panache, departmental quizzes, industrial trips, surveys, and other extracurricular activities.
11. The Academic Committee will compile a list of potential value-added courses based on the suggestions provided during the meeting.

These action items will be followed up on in subsequent meetings to track progress and ensure the successful implementation of the proposed agendas.

Closing:

Principal expressed gratitude to the staff members for their active participation and valuable input during the meeting. It was emphasized that their collaboration and dedication are essential in implementing the discussed agendas successfully. The staff members were encouraged to further develop and refine these proposals and work collectively towards the holistic development of the students.


The meeting concluded at 02.00 PM. The next meeting will be scheduled and communicated to the committee members accordingly.


Principal

CC :-

1. All members of IQAC




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Notice

We are pleased to inform all the students that the Value Added Course (VAC)-
Scientific Research Methods classes will commence from **February 20, 2022**.

This course is designed to provide additional skills and knowledge beyond the regular curriculum, enhancing your learning experience and improving your career prospects.

Details of the VAC Classes:

Start Date: February 20, 2022

Timings: 3:00 PM to 4:00 PM (Monday to Saturday)

Faculty Coordinator- Dr. Jaishri Saxena

Principal

CC-
IQAC Head
HOD of all departments



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Date- 15/02/2022

Circular

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Faculty Coordinator- Dr. Jaishri Saxena

Principal

CC-
IQAC Head
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Value Added Course: Scientific Research Methods Expected Outcomes

The expected outcomes of a Scientific Research Methods course typically include:

- **Understanding of Research Principles:** Students should gain a comprehensive understanding of the fundamental principles and concepts underlying scientific research, including the scientific method, research design, and hypothesis testing.
- **Research Design Skills:** Students should be able to design research studies effectively, including formulating research questions, selecting appropriate methodologies, and designing data collection procedures.
- **Critical Thinking and Problem-Solving:** The course should foster critical thinking skills, enabling students to evaluate research literature critically, identify research gaps, and formulate research hypotheses to address unanswered questions.
- **Data Collection and Analysis:** Students should develop skills in collecting and analyzing research data using quantitative, qualitative, or mixed methods approaches, depending on the nature of the research question.
- **Ethical Considerations in Research:** Students should understand the ethical principles and guidelines governing research with human subjects, animal subjects, and sensitive data, and demonstrate ethical behavior in conducting research.
- **Effective Communication of Research Findings:** Students should be able to communicate research findings effectively through written reports, presentations, and academic papers, following standard formatting and citation guidelines.
- **Literature Review Skills:** Students should learn how to conduct a comprehensive literature review to situate their research within the existing body of knowledge, identify relevant theoretical frameworks, and justify the significance of their research.
- **Problem Identification and Research Proposal Development:** Students should be able to identify research problems, develop research proposals, and articulate research objectives, methods, and expected outcomes clearly and concisely.
- **Collaboration and Teamwork:** Students should develop collaboration and teamwork skills through group projects, peer review exercises, and collaborative research activities, fostering an interdisciplinary approach to research.
- **Research Presentation Skills:** Students should gain confidence in presenting their research findings orally, using effective presentation techniques to engage and communicate with diverse audiences.
- **Preparation for Advanced Study or Careers in Research:** The course should prepare students for further study or careers in research by providing them with a solid foundation in scientific research methods and practices



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Value Added Course: Scientific Research Methods COURSE OUTCOME

Subject	Scientific Research Methods
CO1	The course equips students with skills in collecting and analyzing research data using quantitative, qualitative, or mixed methods approaches.
CO2	Understanding and adhering to ethical standards is essential for maintaining integrity and credibility in research.
CO3	The course prepares students for further study or careers in research by providing them with a solid foundation in scientific research methods and practices.



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Value Added Course Scientific Research Methods (February 20, 2023 to April 3, 2023)

Syllabus

Topic	Week Days
<ul style="list-style-type: none">• Overview of scientific research• The scientific method• Formulating research questions and hypotheses• Types of research designs	Monday-Saturday
<ul style="list-style-type: none">• Experimental, correlational, and descriptive research designs• Probability and non-probability sampling methods• Sample size determination and power analysis	Monday-Saturday
<ul style="list-style-type: none">• Surveys, interviews, observations, experiments, and archival research• Instrument development and validation• Qualitative data collection methods	Monday-Saturday
<ul style="list-style-type: none">• Descriptive and inferential statistics• Statistical software for data analysis• Qualitative data analysis approaches	Monday-Saturday
<ul style="list-style-type: none">• Structure of a research paper• APA style guidelines• Presentation of research findings• Peer review process	Monday-Saturday



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Syllabus: Scientific Research Methods

Unit 1: Introduction to Research

- Overview of scientific research
- The scientific method
- Formulating research questions and hypotheses
- Types of research designs

Unit 2: Research Design and Sampling

- Experimental, correlational, and descriptive research designs
- Probability and non-probability sampling methods
- Sample size determination and power analysis

Unit 3: Data Collection Methods

- Surveys, interviews, observations, experiments, and archival research
- Instrument development and validation
- Qualitative data collection methods

Unit 4: Data Analysis Techniques

- Descriptive and inferential statistics
- Statistical software for data analysis
- Qualitative data analysis approaches

Unit 5: Writing and Reporting Research

- Structure of a research paper
- APA style guidelines
- Presentation of research findings
- Peer review process



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Scientific Research Methods

Time Table

w.e.f- 20/02/2022

Days	Subject	Time
Monday	Scientific Research Methods	03:00-04:00PM
Tuesday	Scientific Research Methods	03:00-04:00PM
Wednesday	Scientific Research Methods	03:00-04:00PM
Thursday	Scientific Research Methods	03:00-04:00PM
Friday	Scientific Research Methods	03:00-04:00PM
Saturday	Scientific Research Methods	03:00-04:00PM

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Copy to:

- IQAC Head
- Vice Principal
- HOD's of all Departments



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Scientific Research Methods Lesson Plan

Unit	Topic	Weekdays	Allotment
Unit-I	Overview of scientific research The scientific method	Monday-Saturday	03:00-04:00PM
Unit-I	Formulating research questions and hypotheses Types of research designs	Monday-Saturday	03:00-04:00PM
Unit-II	Experimental, correlational, and descriptive research designs	Monday-Saturday	03:00-04:00PM
Unit-II	Probability and non-probability sampling methods Sample size determination and power analysis	Monday-Saturday	03:00-04:00PM
Unit-III	Surveys, interviews, observations, experiments, and archival research	Monday-Saturday	03:00-04:00PM
Unit-III	Instrument development and validation Qualitative data collection methods	Monday-Saturday	03:00-04:00PM
Unit-IV	Descriptive and inferential statistics	Monday-Saturday	03:00-04:00PM
Unit-IV	Statistical software for data analysis Qualitative data analysis approaches	Monday-Saturday	03:00-04:00PM
Unit-V	Structure of a research paper APA style guidelines	Monday-Saturday	03:00-04:00PM
Unit-V	Presentation of research findings Peer review process	Monday-Saturday	03:00-04:00PM



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Assessment: Scientific Research Methods **Question Paper**

Instructions:

- Answer all questions.
- Each question carries 10 marks.

1. What is scientific research?
2. Why is scientific research important?
3. Name two methods of data collection. Give one advantage and one disadvantage of each method you mentioned.
4. Why is data analysis important in scientific research?
5. What is informed consent in research?



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Result Analysis: Scientific Research Methods

S. No.	Class	Name	Q1 (10)	Q2 (10)	Q3 (10)	Q4 (10)	Q5 (10)
1.	B.Sc. CS	Snehal Bhuwad	10	10	8	10	10
2.	B.Sc. CS	Chakravorty Pritam Paritosh	9	8	7	7	7
3.	B.Sc. CS	Chandane Tanmay Narendra	8	7	9	7	7
4.	B.Sc. CS	Dutta Bisal Biplabchandra	8	6	8	6	6
5.	B.Sc. CS	Vikram Digambar Jamadar	9	8	7	10	10
6.	B.Sc. CS	Khopade Sandesh Santosh	10	7	7	10	10
7.	B.Sc. CS	Mali Ishwari Pundalik	8	7	9	8	8
8.	B.Sc. CS	Vishal Kumar Srivastava	7	10	9	9	10
9.	B.Sc. CS	Yadav Sumeet Ramesh	6	10	9	8	10
10.	B.Sc. CS	Mohite Shreyash Ashok	8	8	8	8	7
11.	B.Sc. CS	Parihar Jayesh Rakesh	7	7	10	8	6
12.	B.Sc. CS	Patil Apeksha Anil	7	9	8	9	10
13.	B.Sc. CS	Patil Sumit Shivaji	10	8	9	9	10
14.	B.Sc. CS	Patil Tushar Deepak	10	10	8	9	9
15.	B.Sc. CS	Pawar Ashavini Bhauso	8	8	10	7	9
16.	B.Sc. CS	Pawar Ashish Ajit	7	7	8	6	9
17.	B.Sc. CS	Prajapati Anuradha Vijaypratap	9	9	9	6	7
18.	B.Sc. CS	Singh Iccha Rajesh Prasad	8	8	8	7	6
19.	B.Sc. CS	Swamy Aryan Raghavendra	7	10	8	8	6
20.	B.Sc. CS	Tandel Pankaj Dattatrey	7	10	9	7	9
21.	B.Sc. (I.T.)	Gupta Rohan Arvind	9	8	8	9	9
22.	B.Sc. (I.T.)	Jadhav Achal Tushar	9	7	8	10	9
23.	B.Sc. (I.T.)	Kambari Jay Suresh	9	9	7	7	7
24.	B.Sc. (I.T.)	Kolekar Vaishnavi Bhimrao	8	8	9	7	10
25.	B.Sc. (I.T.)	Mhatre Gauri Haresh	10	10	10	9	8
26.	B.Sc. (I.T.)	Mhatre Sakshi Pandurang	9	10	10	9	9
27.	B.Sc. (I.T.)	Mohite Shreyash Ashok	9	8	7	9	8
28.	B.Sc. (I.T.)	Parihar Jayesh Rakesh	8	7	7	8	8
29.	B.Sc. (I.T.)	Patil Apeksha Anil	8	9	6	8	9
30.	B.Sc. (I.T.)	Patil Sumit Shivaji	8	7	7	10	8
31.	B.Sc. (I.T.)	Patil Tushar Deepak	8	7	6	8	9
32.	B.Sc. (I.T.)	Pawar Ashavini Bhauso	10	9	6	9	9
33.	B.Sc. (I.T.)	Pawar Ashish Ajit	7	9	7	8	9
34.	B.Sc. (I.T.)	Prajapati Anuradha Vijaypratap	7	9	8	8	8
35.	B.Sc. (I.T.)	Singh Iccha Rajesh Prasad	6	8	7	9	8
36.	B.Sc. (I.T.)	Swamy Aryan Raghavendra	10	10	9	9	10
37.	B.Sc. (I.T.)	Tandel Pankaj Dattatrey	10	10	10	9	8
38.	B.Sc. (I.T.)	Tele Sanket Maruti	8	7	7	8	8
39.	B.Sc. (I.T.)	Thombare Shraddha Dipak	9	7	7	8	9
40.	B.Sc. (I.T.)	Yadav Diksha Ramjee	8	6	9	10	9
41.	B.Sc. (I.T.)	Shaikh Dilshad Bashu	9	7	9	8	9



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S. No.	Class	Name	Q1 (10)	Q2 (10)	Q3 (10)	Q4 (10)	Q5 (10)
42.	B.Sc.	Ahire Asmita Sunil	10	8	9	9	7
43.	B.Sc.	Chaudhary Riya Sunil	8	7	8	8	7
44.	B.Sc.	Chaursiya Khushi Dinesh	9	9	9	10	9
45.	B.Sc.	Chougule Gauri Sukhdev	8	8	9	8	9
46.	B.Sc.	Dhawale Tina Dattatrey	10	8	8	9	9
47.	B.Sc.	Gaikwad Samiksha Shailesh	9	7	7	10	8
48.	B.Sc.	Ghogare Divya Pandharinath	9	8	6	8	10
49.	B.Sc.	Hatwate Ram Pradumna	8	7	9	9	8
50.	B.Sc.	Jadhav Pranali Laxman	9	9	9	9	9
51.	B.Sc.	James Sharel Sunil	9	8	8	9	8
52.	B.Sc.	Khan Mohammad Arman	8	7	9	9	10
53.	B.Sc.	Ovhal Piyush Sugra	7	7	9	8	8
54.	B.Sc.	Patil Jay Vijay	6	9	8	7	9
55.	B.Sc.	Patil Madhura Vilas	9	9	8	6	8
56.	M.Sc.	Shaikh Dilshad Bashu	9	9	7	9	8
57.	M.Sc.	Ruthe Adarsh Ganesh	8	8	9	9	9
58.	M.Sc.	Gupta Dipu Rajkumar	10	10	8	9	8
59.	M.Sc.	Mendhe Harshal Vitthalrao	7	8	7	9	7
60.	M.Sc.	Bhopi Hritik Prakash	7	9	7	8	9
61.	M.Sc.	Jangam Manali Pandit	8	10	9	7	8
62.	M.Sc.	Bhoir Monika Dipak	10	8	9	10	7
63.	M.Sc.	Ghosalkar Mrunali Chandrashekhar	8	9	9	9	7
64.	M.Sc.	Bhase Namrata Chandrakant	9	8	8	9	9
65.	M.Sc.	Rewale Nishant Janardhan	9	10	10	8	9
66.	M.Sc.	Shaikh Dilshad Bashu	10	10	8	9	9



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APPLICATION FORM

Add On Course-"Scientific Research Methods "

February 20, 2023 to April 8, 2023.

Student's Name : ...Patil Jay Vijay.....
 Father's Name :
 Class : B.Sc.....
 Percentage of Marks obtained in Last Qualifying Examination:76.12%.....
 Date of Admission in this Institution:
 Phone No. : ...8467981096
 Mobile : ...8467981096

DETAILS OF ADD ON COURSES

Parent's Signature:

Student's Signature: *Jay*

Date: 18/2/23

Date: 18/2/23

Reference

Signature of Counsellor: *J. S. Saxena*

Name of Counsellor

: *Mr. Jaijai Saxena*.....

Remarks of Counsellor

:

Remarks of Principal

:



Principal

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APPLICATION FORM

Add On Course-"Scientific Research Methods "

February 20, 2023 to April 8, 2023

Student's Name : Yadav Sunit Ramesh
Father's Name :
Class : BSC CS
Percentage of Marks obtained in Last Qualifying Examination: 62%
Date of Admission in this Institution:
Phone No. :
Mobile : 9653278277

DETAILS OF ADD ON COURSES

Parent's Signature: Student's Signature: Ramesh

Date: 18/2/23

Date: 18/2/23

Reference

Signature of Counsellor: Jaishevi

Name of Counsellor
Remarks of Counsellor
Remarks of Principal

: Dr. Jaishevi Sareva
:
:



Aiswarya

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Certificate of Participation

This is to certify that

CHAKRAVORTY PRITAM PARITOSH

of **St. Wilfred's College of Arts, Commerce & Science** has participated in Value added course

SCIENTIFIC RESEARCH METHODS organized by **DEPARTMENT OF SCIENCE**

on February 20, 2023 to April 8, 2023

Dr. Jaishri Saxena
(Faculty Coordinator)



Dr. Anirudha Rishi
(Principal)

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Affiliated with University of Mumbai

Old Mumbai-Pune Highway, near Panvel Toll Plaza, Panvel, Shedung, Maharashtra 410206



Certificate of Participation

This is to certify that

SNEHAL BHUWAD

of **St. Wilfred's College of Arts, Commerce & Science** has participated in Value added course

SCIENTIFIC RESEARCH METHODS organized by **DEPARTMENT OF SCIENCE**

on February 20, 2023 to April 8, 2023

Dr. Jaishri Saxena
(Faculty Coordinator)



Dr. Anirudha Rishi
(Principal)

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“Scientific Research Methods”

February 20, 2023 to April 8, 2023

Enrolled List-

S. No.	Class	Name
1.	B.Sc. CS	Snehal Bhuwad
2.	B.Sc. CS	Chakravorty Pritam Paritosh
3.	B.Sc. CS	Chandane Tanmay Narendra
4.	B.Sc. CS	Dutta Bisal Biplabchandra
5.	B.Sc. CS	Vikram Digambar Jamadar
6.	B.Sc. CS	Khopade Sandesh Santosh
7.	B.Sc. CS	Mali Ishwari Pundalik
8.	B.Sc. CS	Vishal Kumar Srivastava
9.	B.Sc. CS	Yadav Sumeet Ramesh
10.	B.Sc. CS	Mohite Shreyash Ashok
11.	B.Sc. CS	Parihar Jayesh Rakesh
12.	B.Sc. CS	Patil Apeksha Anil
13.	B.Sc. CS	Patil Sumit Shivaji
14.	B.Sc. CS	Patil Tushar Deepak
15.	B.Sc. CS	Pawar Ashavini Bhauso
16.	B.Sc. CS	Pawar Ashish Ajit
17.	B.Sc. CS	Prajapati Anuradha Vijaypratap
18.	B.Sc. CS	Singh Iccha Rajesh Prasad
19.	B.Sc. CS	Swamy Aryan Raghavendra
20.	B.Sc. CS	Tandel Pankaj Dattatrey
21.	B.Sc. (I.T.)	Gupta Rohan Arvind
22.	B.Sc. (I.T.)	Jadhav Achal Tushar
23.	B.Sc. (I.T.)	Kambari Jay Suresh
24.	B.Sc. (I.T.)	Kolekar Vaishnavi Bhimrao
25.	B.Sc. (I.T.)	Mhatre Gauri Haresh
26.	B.Sc. (I.T.)	Mhatre Sakshi Pandurang
27.	B.Sc. (I.T.)	Mohite Shreyash Ashok
28.	B.Sc. (I.T.)	Parihar Jayesh Rakesh
29.	B.Sc. (I.T.)	Patil Apeksha Anil
30.	B.Sc. (I.T.)	Patil Sumit Shivaji
31.	B.Sc. (I.T.)	Patil Tushar Deepak
32.	B.Sc. (I.T.)	Pawar Ashavini Bhauso
33.	B.Sc. (I.T.)	Pawar Ashish Ajit
34.	B.Sc. (I.T.)	Prajapati Anuradha Vijaypratap
35.	B.Sc. (I.T.)	Singh Iccha Rajesh Prasad
36.	B.Sc. (I.T.)	Swamy Aryan Raghavendra
37.	B.Sc. (I.T.)	Tandel Pankaj Dattatrey
38.	B.Sc. (I.T.)	Tele Sanket Maruti
39.	B.Sc. (I.T.)	Thombare Shraddha Dipak
40.	B.Sc. (I.T.)	Yadav Diksha Ramjee



A. S. K.

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S. No.	Class	Name
41.	B.Sc.	Ahire Asmita Sunil
42.	B.Sc.	Chaudhary Riya Sunil
43.	B.Sc.	Chauriya Khushi Dinesh
44.	B.Sc.	Chougule Gauri Sukhdev
45.	B.Sc.	Dhawale Tina Dattatrey
46.	B.Sc.	Gaikwad Samiksha Shailesh
47.	B.Sc.	Ghogare Divya Pandharinath
48.	B.Sc.	Hatwate Ram Pradumna
49.	B.Sc.	Jadhav Pranali Laxman
50.	B.Sc.	James Sharel Sunil
51.	B.Sc.	Khan Mohammad Arman
52.	B.Sc.	Ovhal Piyush Sugra
53.	B.Sc.	Patil Jay Vijay
54.	B.Sc.	Patil Madhura Vilas
55.	M.Sc.	Shaikh Dilshad Bashu
56.	M.Sc.	Ruthe Adarsh Ganesh
57.	M.Sc.	Gupta Dipu Rajkumar
58.	M.Sc.	Mendhe Harshal Vitthalrao
59.	M.Sc.	Bhopi Hritik Prakash
60.	M.Sc.	Jangam Manali Pandit
61.	M.Sc.	Bhoir Monika Dipak
62.	M.Sc.	Ghosalkar Mrunali Chandrashekhar
63.	M.Sc.	Bhase Namrata Chandrakant
64.	M.Sc.	Rewale Nishant Janardhan
65.	M.Sc.	Shaikh Dilshad Bashu



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Report on Value Added Course: Scientific Research Methods

Introduction

The value-added course on Scientific Research Methods is designed to equip students and professionals with essential skills and knowledge for conducting scientific research effectively. This course aims to bridge the gap between theoretical knowledge and practical application, providing participants with a comprehensive understanding of research methodologies, techniques, and best practices.

Objectives

The primary objectives of the course are:

- To familiarize participants with the fundamental principles of scientific research.
- To develop skills in designing, conducting, and analyzing research studies.
- To enhance critical thinking and problem-solving abilities related to research.
- To promote ethical practices in scientific research.
- To improve the ability to communicate research findings effectively.

Course Content

The course is structured into several key modules, each focusing on different aspects of scientific research:

Introduction to Scientific Research

1. Definition and importance of research.

- Types of research: Basic, applied, and translational.
- The scientific method and its application in research.
- Research Design and Planning

2. Formulating research questions and hypotheses.

- Types of research designs: Experimental, observational, longitudinal, cross-sectional.
- Sampling methods and sample size determination.
- Developing a research proposal.
- Literature Review

3. Importance of a literature review.

- Sources of literature: Journals, books, online databases.
- Techniques for conducting an effective literature review.
- Synthesizing and critiquing existing research.
- Data Collection Methods

4. Qualitative vs. quantitative data.

- Data collection techniques: Surveys, interviews, experiments, observational studies.
- Tools and instruments for data collection.
- Ensuring reliability and validity in data collection.
- Data Analysis and Interpretation

5. Introduction to statistical analysis.

- Software tools for data analysis (e.g., SPSS, R, Python).



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“Scientific Research Methods”

February 20, 2023 to April 8, 2023

Attendance Sheet

S. No.	Class	Name	Signature	February/March																						
				20	21	22	23	24	25	26	27	28	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1.	B.Sc. CS	Snehal Bhuwad	Snehal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2.	B.Sc. CS	Chakravorty Pritam Paritosh	Pritam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	B.Sc. CS	Chandane Tanmay Narendra	Tanmay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	B.Sc. CS	Dutta Bisal Biplabchandra	Bisal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.	B.Sc. CS	Vikram Digambar Jamadar	Digambar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	B.Sc. CS	Khopade Sandesh Santosh	Sandesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7.	B.Sc. CS	Mali Ishwari Pundalik	Ishwari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	B.Sc. CS	Vishal Kumar Srivastava	Vishal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	B.Sc. CS	Yadav Sumeet Ramesh	Sumeet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	B.Sc. CS	Mohite Shreyash Ashok	Shreyash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.	B.Sc. CS	Parihar Jayesh Rakesh	Jayesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12.	B.Sc. CS	Patil Apeksha Anil	Apeksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13.	B.Sc. CS	Patil Sumit Shivaji	Sumit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	B.Sc. CS	Patil Tushar Deepak	Tushar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15.	B.Sc. CS	Pawar Ashavini Bhauso	Ashavini	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16.	B.Sc. CS	Pawar Ashish Ajit	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17.	B.Sc. CS	Prajapati Anuradha Vijaypratap	Anuradha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	B.Sc. CS	Singh Iecha Rajesh Prasad	Iecha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19.	B.Sc. CS	Swamy Aryan Raghavendra	Aryan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20.	B.Sc. CS	Tandel Pankaj Dattatrey	Pankaj	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21.	B.Sc. (I.T.)	Gupta Rohan Arvind	Rohan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22.	B.Sc. (I.T.)	Jadhav Achal Tushar	Achal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23.	B.Sc. (I.T.)	Kambari Jay Suresh	Jay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24.	B.Sc. (I.T.)	Kolekar Vaishnavi Bhimrao	Vaishnavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25.	B.Sc. (I.T.)	Mhatre Gauri Haresh	Gauri	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26.	B.Sc. (I.T.)	Mhatre Sakshi Pandurang	Sakshi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27.	B.Sc. (I.T.)	Mohite Shreyash Ashok	Shreyash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28.	B.Sc. (I.T.)	Parihar Jayesh Rakesh	Jayesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29.	B.Sc. (I.T.)	Patil Apeksha Anil	Apeksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30.	B.Sc. (I.T.)	Patil Sumit Shivaji	Sumit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31.	B.Sc. (I.T.)	Patil Tushar Deepak	Tushar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32.	B.Sc. (I.T.)	Pawar Ashavini Bhauso	Asha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33.	B.Sc. (I.T.)	Pawar Ashish Ajit	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34.	B.Sc. (I.T.)	Prajapati Anuradha Vijaypratap	Anuradha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35.	B.Sc. (I.T.)	Singh Iecha Rajesh Prasad	Iecha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36.	B.Sc. (I.T.)	Swamy Aryan Raghavendra	Aryan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37.	B.Sc. (I.T.)	Tandel Pankaj Dattatrey	Pankaj	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38.	B.Sc. (I.T.)	Tele Sanket Maruti	Sanket	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39.	B.Sc. (I.T.)	Thombare Shraddha Dipak	Shraddha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40.	B.Sc. (I.T.)	Yadav Diksha Ramjee	Diksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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Teacher's Signature



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S. No.	Class	Name	Signature	February/March																							
				20/2	21/2	22/2	23/2	24/2	25/2	27/2	28/2	01/3	02/3	03/3	04/3	05/3	07/3	09/3	10/3	11/3	13/3	14/3	15/3				
41.	B.Sc.	Ahire Asmita Sunil	A Asmita	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	
42.	B.Sc.	Chaudhary Riya Sunil	Riya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43.	B.Sc.	Chauriya Khushi Dinesh	Khushi	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44.	B.Sc.	Chougule Gauri Sukhdev	Gauri	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45.	B.Sc.	Dhawale Tina Dattatrey	Tina	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46.	B.Sc.	Gaikwad Samiksha Shailesh	Samiksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
47.	B.Sc.	Ghogare Divya Pandharinath	Divya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48.	B.Sc.	Hatwate Ram Pradumna	Ram	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49.	B.Sc.	Jadhav Pranali Laxman	Pranali	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50.	B.Sc.	James Sharel Sunil	Sharel	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51.	B.Sc.	Khan Mohammad Arman	Mohammad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52.	B.Sc.	Ovhal Piyush Sugra	Piyush	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53.	B.Sc.	Patil Jay Vijay	Jay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
54.	B.Sc.	Patil Madhura Vilas	Madhura	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55.	M.Sc.	Shaikh Dilshad Bashu	Dilshad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56.	M.Sc.	Ruthe Adarsh Ganesh	Adarsh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57.	M.Sc.	Gupta Dipu Rajkumar	Dipu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58.	M.Sc.	Mendhe Harshal Vitthalrao	Harshal	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
60.	M.Sc.	Jangam Manali Pandit	Manali	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61.	M.Sc.	Bhoir Monika Dipak	Monika	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62.	M.Sc.	Ghosalkar Mrunali Chandrashekhar	Mrunali	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
63.	M.Sc.	Bhase Namrata Chandrakant	Namrata	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64.	M.Sc.	Rewale Nishant Janardhan	Nishant	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
65.	M.Sc.	Shaikh Dilshad Bashu	Dilshad	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Teacher's Signature

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"Scientific Research Methods"

February 20, 2023 to April 8, 2023

Attendance Sheet

S. No.	Class	Name	Signature	February/March																											
				16/3	17/3	18/3	20/3	21/3	22/3	23/3	24/3	25/3	27/3	28/3	29/3	30/3	31/3	01/4	03/4	05/4	06/4	07/4	08/4								
1.	B.Sc. CS	Snehal Bhuwad	Snehal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
2.	B.Sc. CS	Chakravorty Pritam Paritosh	Pritam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3.	B.Sc. CS	Chandane Tanmay Narendra	Tanmay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4.	B.Sc. CS	Dutta Bisal Biplabchandra	Bisal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
5.	B.Sc. CS	Vikram Digambar Jamadar	Digambar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
6.	B.Sc. CS	Khopade Sandesh Santosh	Sandesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
7.	B.Sc. CS	Mali Ishwari Pundalik	Ishwari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
8.	B.Sc. CS	Vishal Kumar Srivastava	Vishal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
9.	B.Sc. CS	Yadav Sumeet Ramesh	Sumeet	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
10.	B.Sc. CS	Mohite Shreyash Ashok	Shreyash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
11.	B.Sc. CS	Parihar Jayesh Rakesh	Jayesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
12.	B.Sc. CS	Patil Apeksha Anil	Apeksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
13.	B.Sc. CS	Patil Sumit Shivaji	Sumit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
14.	B.Sc. CS	Patil Tushar Deepak	Tushar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
15.	B.Sc. CS	Pawar Ashavini Bhauso	Ashavini	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
16.	B.Sc. CS	Pawar Ashish Ajit	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
17.	B.Sc. CS	Prajapati Anuradha Vijaypratap	Anuradha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
18.	B.Sc. CS	Singh Iccha Rajesh Prasad	Iccha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
19.	B.Sc. CS	Swamy Aryan Raghavendra	Aryan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
20.	B.Sc. CS	Tandel Pankaj Dattatrey	Pankaj	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
21.	B.Sc. (I.T.)	Gupta Rohan Arvind	Rohan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
22.	B.Sc. (I.T.)	Jadhav Achal Tushar	Achal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
23.	B.Sc. (I.T.)	Kambari Jay Suresh	Jay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
24.	B.Sc. (I.T.)	Kolekar Vaishnavi Bhimrao	Vaishnavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
25.	B.Sc. (I.T.)	Mhatre Gauri Haresh	Gauri	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
26.	B.Sc. (I.T.)	Mhatre Sakshi Pandurang	Sakshi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
27.	B.Sc. (I.T.)	Mohite Shreyash Ashok	Shreyash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
28.	B.Sc. (I.T.)	Parihar Jayesh Rakesh	Jayesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
29.	B.Sc. (I.T.)	Patil Apeksha Anil	Apeksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
30.	B.Sc. (I.T.)	Patil Sumit Shivaji	Sumit	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
31.	B.Sc. (I.T.)	Patil Tushar Deepak	Tushar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
32.	B.Sc. (I.T.)	Pawar Ashavini Bhauso	Ashavini	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
33.	B.Sc. (I.T.)	Pawar Ashish Ajit	Ashish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
34.	B.Sc. (I.T.)	Prajapati Anuradha Vijaypratap	Anuradha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
35.	B.Sc. (I.T.)	Singh Iccha Rajesh Prasad	Iccha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
36.	B.Sc. (I.T.)	Swamy Aryan Raghavendra	Aryan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
37.	B.Sc. (I.T.)	Tandel Pankaj Dattatrey	Pankaj	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
38.	B.Sc. (I.T.)	Tele Sanket Maruti	Sanket	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
39.	B.Sc. (I.T.)	Thombare Shradha Dipak	Shradha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
40.	B.Sc. (I.T.)	Yadav Diksha Ramjee	Diksha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		



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- Qualitative data analysis techniques.
- Interpreting results and drawing conclusions.
- Research Ethics

6. Ethical principles in research.

- Institutional Review Boards (IRB) and ethical approval processes.
- Handling data privacy and confidentiality.
- Ethical issues in publishing and authorship.
- Writing and Presenting Research

7. Structure of a research paper: Introduction, Methods, Results, Discussion (IMRAD).

- Guidelines for writing and formatting research papers.
- Preparing posters and presentations.
- Strategies for effective communication of research findings.

8. Contemporary Issues in Research

- Open science and data sharing.
- Replicability and reproducibility in research.
- The role of technology and innovation in research.
-

Teaching Methodology

The course employs a mix of teaching methodologies to ensure comprehensive learning:

- Lectures and Readings: Theoretical aspects are covered through lectures and assigned readings.
- Workshops and Seminars: Hands-on sessions to practice research techniques and methods.
- Case Studies: Analysis of real-world research studies to understand application of concepts.
- Group Projects: Collaborative research projects to enhance teamwork and practical skills.
- Guest Lectures: Sessions by experienced researchers and industry professionals to provide insights into contemporary research practices.

Assessment and Evaluation

Participants are assessed through a combination of methods to ensure a holistic evaluation of their understanding and skills:

- Quizzes and Tests: Periodic assessments to test theoretical knowledge.
- Assignments: Practical tasks related to literature review, research design, and data analysis.
- Research Proposal: Development and presentation of a research proposal as a major project.
- Peer Reviews: Evaluation of peers' work to foster critical thinking and constructive feedback.
- Final Examination: Comprehensive exam covering all course modules.

Benefits of the Course

- Enhanced Research Skills: Participants gain practical skills in designing and conducting research.
- Improved Analytical Abilities: Training in data analysis techniques enhances participants' ability to interpret data accurately.
- Ethical Awareness: Understanding of ethical principles ensures responsible conduct in research.



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- **Effective Communication:** Skills in writing and presenting research improve the ability to convey findings clearly and effectively.
- **Career Advancement:** The course provides a strong foundation for academic and professional growth in research-oriented careers.

Conclusion

The value-added course on Scientific Research Methods is a crucial offering for anyone involved in or aspiring to engage in scientific research. By covering a broad spectrum of essential topics, the course ensures that participants are well-prepared to undertake high-quality research projects, contribute to scientific knowledge, and advance their careers in research and academia.



Arinella

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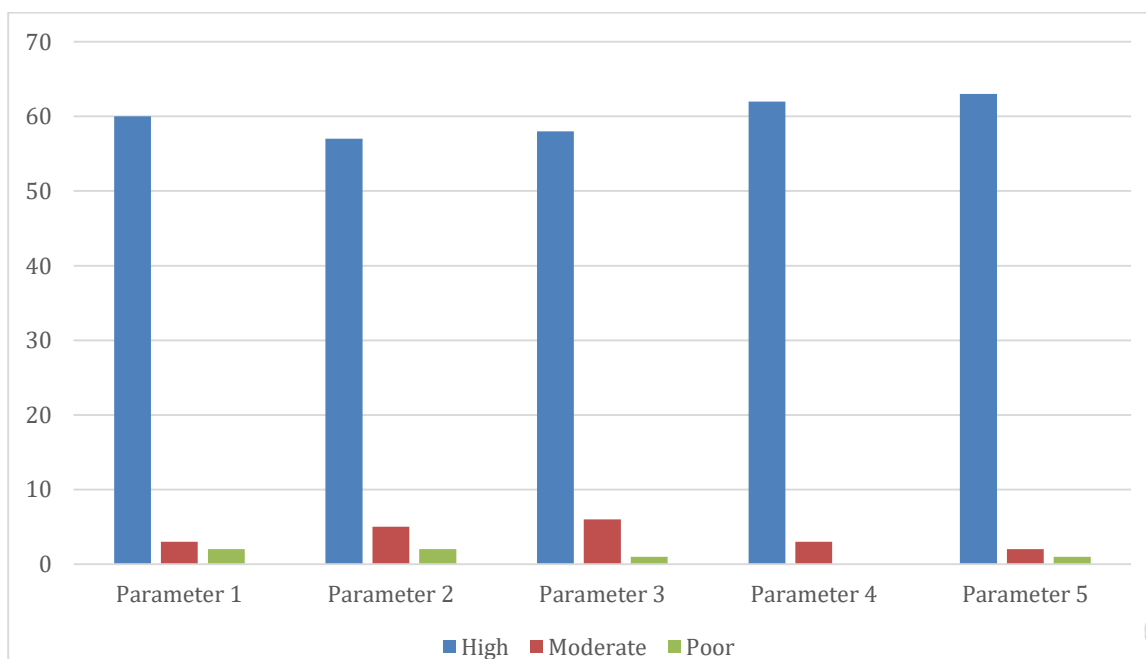
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Value Added Course: Scientific Research Methods Feedback Analysis

Number of Participants in the feedback: 65

	Parameters	High	Moderate	Poor
1.	Fulfillment of objectives	60	03	02
2.	Fundamentals coverage	57	05	02
3.	Extent of Syllabus Coverage	58	06	01
4.	Relevance of work with outer exposure or practical approach	62	03	00
5.	Terminology in reference to Career Counseling	63	02	01



Anisella

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Action taken for students Queries/Complaints/Missed Classes:

1. Extra remedial classes on Saturdays & Sundays for student's queries.
2. Calling to the students & asked them the reason for not attending the classes & arranged remedial classes.
3. Given guidance for completing assignments.
4. Arrange practical classes for students.
5. Interaction with students and teachers.



Anisul Kar

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