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#### 3.2.2 Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

#### **Session 2022-23**

S. No.	Title of workshop	Date	<b>Resource Person/s</b>
1.	Workshop on "Assessing the Impact of India's New Education Policy (2020) on the Future of Secular Education"	13-07-22	Dr. Mandar Bhanushe
2.	Workshop on "Bioinformatics for Beginners: Analyzing Biological Data Sets"	26-08-22	Dr Jaishree Saxena
3.	Workshop on Corporate Governance and Ethics in Business: Best Practices and Challenges	07-09-22	Prof. Shubhi
4.	Workshop on "Green Chemistry: Sustainable Solutions for a Better World"	03-10-22	Prof. R. Dod
5.	Workshop on "Advances in Chemical Research: Exploring Cutting-Edge Techniques "	28-10-22	Prof. Pahup Singh
6.	Workshop on "Introduction to Computational Physics: Simulations and Modeling"	04-01-23	Prof. R. P. Sharma
7.	Seminar on "Supply Chain Management Seminar: Strategies for Efficiency and Optimization"	19-02-23	Dr. Geeta
8.	Workshop on "Strategies for Success in Grant Writing and Securing Funding Opportunities"	06-03-23	Prof. Deepa Mathur
9.	Workshop on "Tools and Techniques in Quantitative Research Methods	15-06-23	Prof. Aurab Chakraborty
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#### A Workshop Report on "Assessing the Impact of India's New Education Policy (2020) on the Future of Secular Education"

**Name of Activity:** Workshop on "Assessing the Impact of India's New Education Policy (2020) on the Future of Secular Education"

#### Date: 13-07-22

Resource Person/s: Dr. Mandar Bhanushe

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPE	CTED OUTCOMES
	Students should gain a comprehensive understanding of the key provisions and
CO 1	objectives of India's New Education Policy (NEP) 2020.
	Students should develop the ability to critically analyze the potential impact of
CO 2	NEP 2020 on secular education in India.
	Students should develop an awareness of the principles of secularism and their
CO 3	importance in fostering a diverse and inclusive society.

#### Activity Summary:

The workshop focused on analyzing the implications of India's New Education Policy (NEP) of 2020 on the trajectory and future of secular education in the country. The discussions aimed to explore how the policy changes could potentially influence the promotion and practice of secularism within the education system.

#### **Key Themes Explored**

- 1. Overview of India's New Education Policy (NEP) 2020
  - Understanding the key objectives, components, and changes introduced by the NEP.

#### 2. Secularism in Education

• Exploring the concept of secular education and its importance in a diverse society.

#### 3. Impact of NEP on Secular Education

• Analyzing the potential impact of NEP reforms on secularism within educational institutions.

#### 4. Challenges and Opportunities



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• Identifying challenges and opportunities for promoting secular education under the NEP framework.

#### 5. Policy Recommendations

• Formulating recommendations for ensuring the continued promotion of secular values in education amidst policy changes.

#### **Insights and Discussions**

Participants engaged in insightful discussions, sharing perspectives, experiences, and research findings related to the intersection of education policy and secularism. Key discussions included the role of curriculum design, teacher training, and institutional practices in upholding secular values.

#### **Key Takeaways**

- Recognition of the importance of secular education in fostering inclusivity and diversity.
- Awareness of the potential impact of NEP reforms on secularism within the education sector.
- Commitment to promoting secular values and principles in educational policies and practices.

#### Conclusion

The workshop provided a platform for critical analysis and dialogue on the relationship between education policy and secularism in India. It underscored the need for thoughtful implementation strategies to ensure the continued promotion of secular education values in the evolving education landscape.



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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	20	08	2
2	Content Relevance : Were the topics covered relevant to your research needs?	24	05	1
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	19	6	5
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	23	3	4
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	24	3	3

#### **Overall Feedback from Participants**



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#### A Workshop Report on "Bioinformatics for Beginners: Analyzing Biological Data Sets"

Name of Activity: Workshop on "Bioinformatics for Beginners: Analyzing Biological Data

Sets"

Date: 26-08-22

Resource Person/s: Dr Jaishree Saxena

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPE	CTED OUTCOMES
CO 1	Participants should gain a foundational understanding of key bioinformatics
	concepts.
	Participants should become familiar with commonly used bioinformatics tools and
CO 2	software for analyzing biological data sets.
	Participants will learn to critically evaluate the strengths and limitations of
CO 3	different bioinformatics methods.

#### **Activity Summary:**

The workshop titled "Bioinformatics for Beginners: Analyzing Biological Data Sets" aimed to provide an introduction to the field of bioinformatics and equip participants with the skills to analyze biological data sets effectively. The workshop attracted beginners interested in bioinformatics, biology, and related fields. Expert speakers and instructors led sessions covering fundamental concepts, tools, and techniques in bioinformatics analysis.

#### **Key Topics Covered**

#### 1. Introduction to Bioinformatics

• Overview of bioinformatics and its role in biological data analysis.

#### 2. Biological Data Sets

• Types of biological data sets (e.g., DNA sequences, protein structures) and their significance.

#### 3. Bioinformatics Tools and Software

• Introduction to popular bioinformatics tools and software for data analysis (e.g., BLAST, CLC Genomics Workbench).

#### 4. Data Preprocessing

- and data cleaning as to a set of the set of
- 5. Data Analysis Techniques

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• Methods for analyzing biological data sets, such as sequence alignment, phylogenetic analysis, and statistical analysis.

#### 6. Interpretation of Results

• Strategies for interpreting bioinformatics analysis results and drawing meaningful conclusions.

#### 7. Case Studies and Practical Exercises

• Hands-on exercises and case studies to apply bioinformatics tools and techniques to real biological data sets.

#### Hands-On Activities and Learning Outcomes

Participants engaged in hands-on activities and practical exercises, gaining proficiency in using bioinformatics tools and analyzing biological data sets. Learning outcomes included:

- Understanding of bioinformatics principles and techniques.
- Proficiency in using bioinformatics software for data analysis.
- Ability to interpret and analyze biological data sets effectively.

#### **Key Takeaways**

- Enhanced understanding of bioinformatics fundamentals and their applications in biological research.
- Practical skills in using bioinformatics tools and software for data analysis.
- Confidence in analyzing and interpreting biological data sets for research and academic purposes.

#### Conclusion

The "Bioinformatics for Beginners: Analyzing Biological Data Sets" workshop provided a valuable learning experience for participants, equipping them with essential skills and knowledge in bioinformatics analysis. The workshop contributed to building a foundation for further exploration and research in the field of bioinformatics.



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6.	Sakshi Jadhav	Sateli
7.	Ashish Ajit Pawar	Achleh
8.	Bhavesh Punamchand Choudhary	Rhavest
9.	Aachal Tushar Jadhav	Aachal
10.	Sakshi Pandurang Mhatre	Pakehi
11.	Anuradha Vijaypratap Prajapati	Anutodla.
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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	45	10	5
2	Content Relevance : Were the topics covered relevant to your research needs?	41	10	9
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	44	10	6
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	47	10	3
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	43	10	7

#### **Overall Feedback from Participants**



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#### A Workshop Report on "Corporate Governance and Ethics in Business: Best Practices

#### and Challenges

Name of Activity: Workshop on "Corporate Governance and Ethics in Business: Best Practices and Challenges"

Date: 07-09-22

#### **Resource Person/s: Prof. Shubhi**

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPE	EXPECTED OUTCOMES			
CO 1	Understand the best practices and challenges of corporate governance and ethical behavior in business settings.			
CO 2	Gain practical knowledge to implement effective corporate governance frameworks and ethical standards within organizations.			
CO 3	Develop skills to navigate complex ethical dilemmas and promote responsible decision-making in corporate environments.			

#### **Activity Summary:**

The "Corporate Governance and Ethics in Business: Best Practices and Challenges" workshop was organized with the objective of fostering discussions and sharing insights on the critical aspects of corporate governance and ethical considerations in contemporary business environments. The workshop aimed to bring together industry experts, professionals, and stakeholders to explore best practices, address challenges, and promote ethical decision-making within organizations.

**Workshop Agenda Overview:** The workshop comprised interactive sessions, panel discussions, case studies, and presentations designed to cover a wide range of topics related to corporate governance and ethics. Key agenda items included:

- Panel discussions on board composition, risk management, and stakeholder engagement.
- Case studies highlighting successful corporate governance practices and ethical dilemmas.
- Interactive exercises on ethical decision-making frameworks and leadership.

Key Themes and Discussions everal key themes emerged during the workshop discussions:

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- Importance of transparency, accountability, and integrity in corporate governance.
- Strategies for effective risk management and mitigation in dynamic business landscapes.
- Role of ethical leadership in shaping organizational culture and values.
- Regulatory compliance and evolving standards impacting corporate governance practices.

**Insights and Best Practices:** Participants gained insights into best practices associated with corporate governance, including:

- Ensuring board diversity and independence for robust decision-making processes.
- Implementing proactive risk assessment strategies to address emerging challenges.
- Cultivating a culture of ethical behavior and accountability across all levels of the organization.

**Challenges Addressed and Solutions Proposed:** Common challenges identified in corporate governance and ethics included conflicts of interest, regulatory complexities, and ethical dilemmas. Solutions proposed by participants included:

- Establishing clear conflict-of-interest policies and procedures.
- Conducting regular ethics training programs for employees and leaders.
- Leveraging technology for enhanced transparency and compliance monitoring.

**Conclusion and Future Directions:** In conclusion, the "Corporate Governance and Ethics in Business" workshop achieved its objectives of fostering knowledge sharing, promoting ethical decision-making, and addressing challenges in corporate governance. Moving forward, we aim to build on these discussions and continue collaborating with stakeholders to drive positive change in corporate practices.



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#### **Overall Feedback from Participants**

S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	35	2	3
2	Content Relevance : Were the topics covered relevant to your research needs?	36	1	3
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	35	04	1
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	34	5	1
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	32	4	4



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#### A Workshop Report on "Green Chemistry: Sustainable Solutions for a Better World"

**Name of Activity:** Workshop on "Green Chemistry: Sustainable Solutions for a Better World"

world

Date: 03-10-22

#### **Resource Person: Prof. R. Dod**

Organizer(s): Department of Science, St. Wilfred's College of Arts, Commerce & Science,

Panvel

	EXPECTED OUTCOMES				
CO 1	Learn about the principles and practices of green chemistry for developing sustainable solutions that minimize environmental impact.				
CO 2	Acquire practical skills to design and implement green chemistry approaches in research, development, and industrial processes.				
CO 3	Explore innovative green chemistry technologies and strategies to address global environmental challenges and contribute to a more sustainable future.				

#### **Activity Summary:**

The workshop titled "Green Chemistry: Sustainable Solutions for a Better World" was organized to explore innovative approaches and sustainable practices in chemistry. It aimed to discuss the principles of green chemistry for environmental conservation and share insights and best practices for creating a more environmentally friendly world.

The key topics explored during the workshop included:

- **Principles of Green Chemistry**: Participants were introduced to the 12 Principles of Green Chemistry, emphasizing the importance of designing chemical processes that minimize environmental impact.
- Sustainable Synthesis Methods: Discussions centered around catalysis, biocatalysis, and the use of renewable feedstocks, with examples highlighting successful implementation of these methods.
- Green Chemical Engineering: The focus was on optimizing processes, reducing waste, and improving energy efficiency, with discussions on strategies for scaling up green chemical processes.
- Environmental Impact Assessment: Workshops were conducted on conducting life cycle assessments (LCAs) and using sustainability metrics to evaluate the environmental footprint of chemical processes.

Key insights and best practices emerged from the discussions:

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- Designing Safer Chemicals: Participants explored methods to reduce toxicity and persistence in chemical products, with case studies demonstrating the development of safer alternatives.
- Renewable Feedstocks: The utilization of biomass, CO2, and waste materials for sustainable synthesis was highlighted, emphasizing the benefits of bio-based materials.
- Energy Efficiency and Resource Conservation: Best practices for energy-efficient processes, renewable energy sources, and waste minimization were discussed.

Challenges identified included cost, regulatory compliance, and technology adoption barriers. Participants discussed strategies to overcome these challenges and promote wider adoption of green chemistry practices.

Recommendations were made to increase education programs on green chemistry, incorporate green chemistry principles into curricula, and advocate for policy frameworks that encourage sustainable practices in the chemical industry.

In conclusion, the workshop provided valuable insights and recommendations for advancing sustainable solutions in chemistry and creating a greener future. Appreciation was extended to speakers, participants, sponsors, and organizers for their contributions to the success of the workshop, with special recognition given to key contributors for their valuable insights and expertise.



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29.	Pawar Sneha Manoj	
30.	Ahalawat Parth Dharmendra	

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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	32	06	4
2	Content Relevance : Were the topics covered relevant to your research needs?	34	6	2
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	39	1	2
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	31	5	6
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	33	3	6

#### **Overall Feedback from Participants**



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#### A Workshop Report on Workshop on "Advances in Chemical Research: Exploring

#### **Cutting-Edge Techniques**"

Name of Activity: Workshop on "Advances in Chemical Research: Exploring Cutting-

**Edge Techniques**"

Date: 28-10-22

#### **Resource Person: Prof. Pahup Singh**

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPE	EXPECTED OUTCOMES				
	Gain knowledge of the newest techniques and methods in chemical research,				
CO 1	staying updated with the latest scientific advancements.				
	Develop advanced research skills that can be applied in both academic and				
CO 2	industrial settings, improving your ability to conduct effective and innovative				
	experiments.				
	Understand the interdisciplinary nature of modern chemical research, integrating				
CO 3	concepts from physics, biology, and engineering to solve complex problems.				

Activity Summary: The "Workshop on Advances in Chemical Research," held on 28-10-22, at St. Wilfred's College of Arts, Commerce & Science, brought together 150 participants, including students, faculty members, and external researchers. The workshop featured insightful keynote speeches and technical sessions on topics such as organic chemistry, inorganic chemistry, analytical techniques, physical chemistry, and chemical engineering innovations. Highlights included a panel discussion on the challenges and opportunities in chemical research, hands-on training in advanced analytical techniques, and interactive poster presentations by students. The event fostered knowledge exchange, inspired innovative research, and facilitated networking among participants. Overall, the workshop received positive feedback, with a 92% satisfaction rate, and underscored the importance of continued professional development in the field of chemistry.



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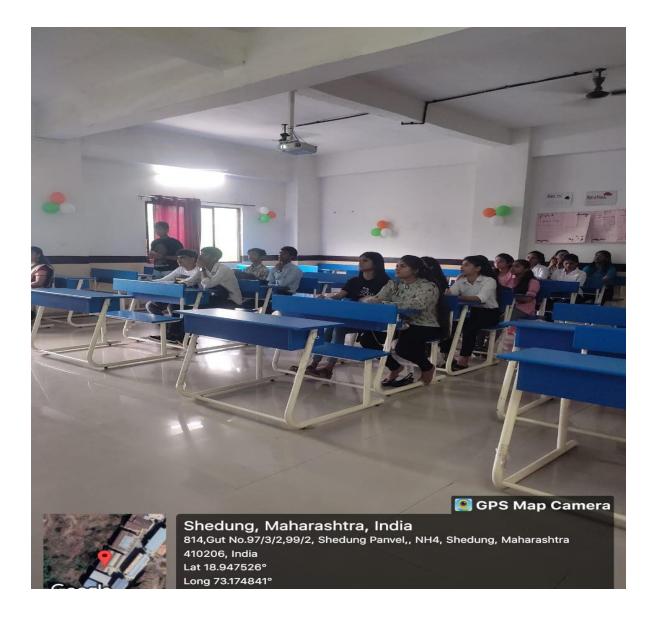
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#### **Geo Tagged Pictures of Activity**





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#### **Overall Feedback from Participants**

S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	34	2	2
2	Content Relevance: Were the topics covered relevant to your research needs?	38	1	3
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	33	3	1
4	Presenter Effectiveness: - How effective was the presenter in delivering the workshop content?	35	1	1
5	Learning Outcomes: - Did the workshop help you achieve your learning objectives?	33	2	2



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#### A Workshop Report on "Introduction to Computational Physics: Simulations and Modeling"

Name of Activity: Workshop on "Introduction to Computational Physics: Simulations and Modeling"

#### Date: 04-01-23

Resource Person: Prof. R. P. Sharma

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

	EXPECTED OUTCOMES			
	Learn to tackle complex physical problems using computational methods, which			
CO 1	enhance the ability to find solutions to challenging scientific questions.			
	Hands-on experience with programming languages like Python and C++, essential			
CO 2	for conducting simulations and modeling in physics.			
	Proficiency in simulation and modeling is highly valued in industries like			
CO 3	aerospace, automotive, energy, and technology, enhancing employability.			

#### **Activity Summary:**

A workshop on "Introduction to Computational Physics: Simulations and Modeling" was organized on 04-01-23 in the premises where students engage in a variety of hands-on activities designed to build practical skills in computational methods. The activities included writing and debugging code to solve physical problems, using programming languages such as Python or C++. Students performed simulations to model physical systems, such as particle dynamics, electromagnetic fields, and thermodynamic processes. Through these activities, students developed a robust understanding of how to apply computational techniques to real-world physics problems, preparing them for advanced research and professional careers in science and engineering.



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#### **Geo Tagged Pictures of Activity**





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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	39	4	1
2	Content Relevance : Were the topics covered relevant to your research needs?	38	3	3
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	40	3	1
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	41	1	3
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	38	4	2

#### **Overall Feedback from Participants**



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#### A Workshop Report on Seminar on "Supply Chain Management Seminar: Strategies

#### for Efficiency and Optimization"

**Name of Activity:** Workshop on "Supply Chain Management Seminar: Strategies for Efficiency and Optimization"

#### Date: 19-02-2023

Resource Person: Dr. Geeta

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPECTED OUTCOMES	
CO 1	Increasing the use of information technology enablement which extends to customer and
	suppliers at all the level.
CO 2	Use of enterprise level resources planning and integration system along with the
	latest technology in transportation, distribution and replenishment.
CO 3	Understanding the challenges of globalization and longer supply chain.

#### **Activity Summary:**

A one day seminar on Supply chain management (SCM) organized on 19-02-2023. It involved providing information about the entire production flow of goods and services, from raw materials to final products delivered to consumers. Students learned about various processes such as procurement, manufacturing, transportation, warehousing, and inventory management.



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#### **Geo Tagged Pictures of Activity**





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#### **Overall Feedback from Participants**

S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	39	1	1
2	Content Relevance : Were the topics covered relevant to your research needs?	38	2	1
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	36	3	2
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	29	5	7
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	35	3	3



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#### A Workshop Report on "Strategies for Success in Grant Writing and Securing Funding

#### **Opportunities**"

Name of Activity: Workshop on "Strategies for Success in Grant Writing and Securing

Funding Opportunities"

Date and Duration: 06-03-2023

#### **Resource Person: Prof. Deepa Mathur**

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPECTED OUTCOMES				
CO 1	Understanding the basics of grant, types of grant and importance of grant writing			
CO 2	Building a strong foundation for their proposal by developing a clear and compelling project idea			
CO 3	Learning skills to facilitate grant writing and securing funding.			

#### **Activity Summary:**

The workshop on "Strategies for Success in Grant Writing and Securing Funding Opportunities" was designed to equip participants with the essential skills and knowledge needed to write successful grant proposals and secure funding for their projects. The workshop covered various aspects related to grant writing and funding acquisition, including key strategies, best practices, and ethical considerations.

#### Workshop Objectives:

- 1. To provide participants with an understanding of the grant writing process.
- 2. To equip participants with effective strategies for identifying and securing funding opportunities.
- 3. To enhance participants' skills in crafting compelling grant proposals.
- 4. To address ethical considerations in grant writing and funding acquisition.

#### Workshop Agenda:

- 1. **Introduction to Grant Writing:** The workshop started with an overview of the grant writing process, including the importance of research, planning, and effective communication in writing successful proposals.
- 2. Identifying Funding Opportunities: Participants learned how to identify relevant funding sources and opportunities based on their project goals and target audience.

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- 3. **Grant Proposal Components:** The workshop delved into the essential components of a grant proposal, such as the executive summary, project description, budget, evaluation plan, and sustainability strategies.
- 4. Writing Techniques and Best Practices: Participants were introduced to writing techniques and best practices for creating clear, concise, and persuasive grant proposals.
- 5. **Budgeting and Financial Planning:** A session on budgeting and financial planning provided participants with guidance on developing realistic budgets, justifying expenses, and aligning financial plans with project goals.
- 6. **Ethics in Grant Writing:** The workshop addressed ethical considerations in grant writing, emphasizing transparency, integrity, and compliance with funding guidelines and regulations.
- 7. **Proposal Review and Feedback:** Participants had the opportunity to review sample grant proposals and receive feedback on improving the clarity, coherence, and persuasiveness of their writing.
- 8. **Outcome Evaluation and Impact Assessment:** The workshop concluded with a discussion on strategies for evaluating project outcomes and measuring impact, essential for securing future funding.

#### Key Takeaways:

- 1. Understanding the grant writing process and key components of a grant proposal.
- 2. Effective strategies for identifying funding sources and opportunities.
- 3. Writing techniques and best practices for crafting compelling grant proposals.
- 4. Budgeting and financial planning skills for grant proposals.
- 5. Ethical considerations in grant writing and funding acquisition.
- 6. Importance of outcome evaluation and impact assessment for securing future funding.

Overall, the workshop provided participants with valuable insights, practical skills, and resources to enhance their success in grant writing and securing funding opportunities for their projects. Participants expressed satisfaction with the content covered and found the workshop highly informative and beneficial for their grant-seeking endeavors.



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#### **Geo Tagged Pictures of Activity**





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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	25	5	6
2	Content Relevance : Were the topics covered relevant to your research needs?	28	6	2
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	34	1	1
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	32	3	1
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	34	1	1

#### **Overall Feedback from Participants**



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#### A Workshop Report on "Tools and Techniques in Quantitative Research Methods."

Name of Activity: Workshop on "Tools and Techniques in Quantitative Research Methods"

Date: 15-06-2023

#### **Resource Person: Prof. Aurab Chakrobarty**

**Organizer(s):** Department of Science, St. Wilfred's College of Arts, Commerce & Science, Panvel

EXPE	EXPECTED OUTCOMES			
CO 1	Understanding the basics of quantitative research methods			
CO 2	2 Familiarizing with the tools and techniques of data collection.			
	Gaining hands-on experience with quantitative research methods and statistical			
CO 3	analysis.			

#### **Activity Summary:**

**Introduction:** The workshop titled "Tools and Techniques in Quantitative Research Methods" aimed to provide participants with comprehensive insights into conducting quantitative research effectively. This report outlines the key components, activities, and outcomes of the workshop.

#### Workshop Objectives:

- 1. Introducing participants to quantitative research methodologies.
- 2. Familiarizing participants with various tools and techniques used in quantitative data collection and analysis.
- 3. Providing hands-on experience with quantitative research methods and statistical analysis.

#### Workshop Agenda:

- Session 1: Introduction to Quantitative Research
  - Overview of quantitative research methodologies.
  - Understanding the purpose and scope of quantitative studies.
- Session 2: Research Design and Measurement
  - Designing research studies with a focus on quantitative methods.
  - Selecting appropriate measurement tools and ensuring validity and reliability.
- Session 3: Data Collection Techniques



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- Exploring different data collection methods such as surveys, experiments, and observations.
- Discussing best practices for data collection in quantitative research.
- Session 4: Data Analysis Tools
  - Introduction to software tools for quantitative data analysis (e.g., SPSS, Excel, R).
  - Hands-on training on inputting data, performing descriptive and inferential analysis.
- Session 5: Statistical Techniques
  - Understanding statistical techniques used in quantitative research (e.g., correlation analysis, regression, hypothesis testing).
  - Practical application of statistical methods to analyze research data.
- Session 6: Ethical Considerations
  - Addressing ethical considerations in quantitative research, including data privacy, confidentiality, and informed consent.
- Session 7: Reporting and Presenting Findings
  - Techniques for effectively reporting and presenting quantitative research findings.
  - Using tables, charts, and graphs to communicate research results.

#### **Key Takeaways:**

- 1. Enhanced understanding of quantitative research methodologies and their applications.
- 2. Proficiency in using tools and techniques for quantitative data collection, analysis, and reporting.
- 3. Practical experience in applying statistical methods to research data.
- 4. Awareness of ethical considerations and best practices in quantitative research.
- 5. Improved skills in presenting quantitative research findings effectively.

**Participant Feedback:** Feedback from participants was overwhelmingly positive. They appreciated the structured approach of the workshop, hands-on activities, and practical relevance of the content. Many participants noted a significant improvement in their quantitative research skills and expressed confidence in applying learned techniques to their own research projects.

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**Conclusion:** The "Tools and Techniques in Quantitative Research Methods" workshop successfully achieved its objectives of equipping participants with essential skills and knowledge for conducting rigorous quantitative research. The workshop format, including theoretical sessions, practical exercises, and discussions on ethical considerations, contributed to a holistic learning experience.



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#### **Geo Tagged Pictures of Activity**





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Where the mind is without fear! where the head is held high!







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S. No.	Feedback Questions	High	Moderate	Poor
1	Overall Workshop Experience :- Rate your overall satisfaction with the workshop experience	20	7	3
2	Content Relevance : Were the topics covered relevant to your research needs?	26	3	1
3	Workshop Organization : - Rate the organization of the workshop (e.g., schedule, structure)	23	5	2
4	Presenter Effectiveness : - How effective was the presenter in delivering the workshop content?	20	6	4
5	Learning Outcomes :- Did the workshop help you achieve your learning objectives?	27	1	2

#### **Overall Feedback from Participants**



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