

**GOVT. HOLKAR (MODEL AUTONOMOUS)
SCIENCE COLLEGE, INDORE**



(An ISO 9001:2015 & ISO 14001:2015 Certified Institution)



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Research Committee Annual Report

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Government Holkar (Model, Autonomous) Science College Indore (MP)

Research Committee Annual Report

Year-2017

(From Jan 01,2017 To Dec 31,2017)

Introduction:

This annual report contains detailed overview of the activities, achievements, and progress of the Research Committee at Government Holkar (Model, Autonomous) Science College Indore (MP) during the year 2017. The report highlights the steps taken to strengthen research facilities, collaboration, and enhance the research ecosystem within the institution.

Research Committee Members:

The Research Committee comprised the following members during the year 2017:

1. Dr. M. K. Dwivedi, Convener
2. Dr. V. Gadgil , member
3. Dr. S. Iqbal, member
4. Dr. V. K.Sharma, member
5. Dr. Netram Kaurav, member

Objectives:

The main objectives of the Research Committee during the year 2017 were to:

- Develop the research infrastructure and capabilities of the institution
- Provide seed money to faculty and students to promote research environment in the institution
- Organize conferences and seminars to faculty and students to interact with researchers in their field to create opportunities for them.
- Promote research collaboration within the college and with other institutions.

Activities and Achievements:

a. Research Support and Funding:

- Assisted in the preparation and submission of in-house research project proposals.
- Recommendations were given to administration to grant seed money to selected proposals after proper scrutiny.
- Monitored the progress and outcomes of funded research projects.
- Seed money was allocated and utilized by faculties.

b. Research Collaboration:

- Organized research oriented seminars and workshops to encourage collaboration among researchers and faculty members.
- Collaborated with other departments within the institution and external partners to sign MOU to promote research environment in the institution. .
- Supported the development of interdisciplinary research projects and initiatives.

c. Research Dissemination and Publications:

- Encouraged and supported faculty members and researchers in publishing their research findings in reputed journals and conference proceedings.
- Organized research paper presentations and poster sessions within the college.
- Recognized and celebrated faculty members' research achievements and publications.

d. Research Ethics and Compliance:

- Ensured compliance with research ethics and guidelines by providing guidance and support to faculty members and researchers.
- Conducted workshops and training sessions on research ethics, plagiarism awareness, and responsible research practices.

e. Research Infrastructure and Resources:

- Collaborated with college administration to enhance research infrastructure, including laboratory facilities, equipment, and software.
- Facilitated access to research resources, databases, and online journals for faculty members and researchers.

Future Plans:

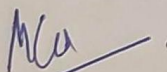
The future plans of Research Committee are to:

- Create a research-friendly environment through continuous engagement and support to faculty members and students
- Increase number of MOU's with industry, government agencies, and international institutions.
- Conduct research oriented seminars and conferences to showcase the research achievements of the institution.
- Provide state of the art facilities in the research laboratories for researchers.

Acknowledgments:

We extend our gratitude to the college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP)

This annual report shows the collective efforts and commitment of the Research Committee in providing research infrastructure and facilities within the college. The committee members shared valuable insights and ideas to address obstacles and enhance the overall research environment within the college.



Dr. M. K. Dwivedi

Convener, Research Committee

**Government Holkar (Model, Autonomous) Science
College Indore (MP)
Research Committee Annual Report
Year-2018
(From 01.01.2018 To 31.12.2018)**

Introduction:

This annual report contains detailed overview of the activities, achievements, and progress of the Research Committee at Government Holkar (Model, Autonomous) Science College Indore (MP) during the year 2018. The report highlights the steps taken to strengthen research facilities, collaboration, and enhance the research ecosystem within the institution.

Research Committee Members:

The Research Committee comprised the following members during the year 2018:

1. Dr. M. K. Dwivedi, Convener
2. Dr. V. Gadgil, member
3. Dr. S. Iqbal, member
4. Dr. V. K. Sharma, member
5. Dr. Netram Kaurav, member

Objectives:

The main objectives of the Research Committee during the year 2018 were:

- Research Infrastructure
- Overview of Research Activities
- Publications and Research Outputs
- Collaborative Opportunities
- Organization of conferences and seminars to faculty and students

Activities and Achievements:

a. Research Support and Funding:

- The financial aspects of research were discussed, with a breakdown of grants and funding secured for in-house research projects and various research projects.
- Recommendations were given to administration to grant seed money to selected proposals after proper scrutiny.
- Monitored the progress and outcomes of funded research projects.
- Seed money was allocated and utilized by faculties

b. Research Collaboration:

- Opportunities for collaborations with other academic institutions, industries, and research centers were discussed. The committee stressed the significance of fostering partnerships to broaden the college's research scope and create a more robust research ecosystem.
- Organized research oriented seminars and workshops to encourage collaboration among researchers and faculty members.
- Promoted the development of interdisciplinary research projects and initiatives.

c. Research Dissemination and Publications:

- The committee reviewed the research outputs produced during the year, including publications in reputed journals and conference presentations.
- Special recognition was given to outstanding research contributions that had a significant impact on their respective fields.
- Encouraged and supported faculty members and researchers in publishing their research findings in reputed journals and conference proceedings.
- Organized research paper presentations and poster sessions within the college.

d. Research Ethics and Compliance:

- The committee discussed the adherence to research ethics guidelines and compliance with institutional regulations. It was highlighted that all research activities should be conducted with integrity, ensuring the safety and welfare of participants and the responsible use of research funds
- Conducted workshops and training sessions on research ethics, plagiarism awareness, and responsible research practices.

e. Research Infrastructure and Resources:

- An assessment of the college's research infrastructure was made, identifying areas that need improvement to better support research initiatives.
- The committee considered possibilities of acquiring new equipment, enhancing laboratory facilities, and investing in research software and databases.

Future Plans:

The future plans of Research Committee are to:

- Organize regular research workshops and seminars to enhance the research capabilities of faculty and students. Events should cover topics such as research methodology, data analysis, academic writing, and grant

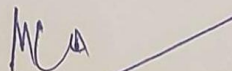
proposal writing. Inviting external experts to conduct these sessions can provide valuable insights and knowledge to the participants.

- Encourage more students to actively engage in research activities. The committee can work with faculty mentors to identify research opportunities for undergraduate and postgraduate students.
- Create a centralized database of available grants and scholarships to assist faculty and students in finding suitable funding sources for their research projects.
- Conduct periodic reviews of research projects to assess their status, identify any challenges, and provide necessary support to ensure timely completion and successful outcomes.

Acknowledgments:

We extend our gratitude to the college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP)

The meeting concluded with an open discussion on the challenges faced during the year and recommendations for improvement. The committee members shared valuable insights and ideas to address obstacles and enhance the overall research environment within the college.



Dr. M. K. Dwivedi
Convener, Research Committee

Government Holkar (Model, Autonomous) Science College Indore (MP)
Research Committee Annual Report
Year-2019
(From 1st Jan 2019 To 31st Dec 2019)

Introduction:

The annual meeting of the Research Committee was convened to review the progress made during the previous academic year and discuss plans for the upcoming year. The meeting was attended by committee members dedicated to promoting and supporting research activities within the college. This annual report contains detailed overview of the activities, achievements, and progress of the Research Committee.

Research Committee Members:

The Research Committee comprised the following members during the year 2019:

- 1.Dr.M.K.Dwivedi, Convener*
- 2.Dr.V.Gadgil , member*
- 3.Dr.S.Iqbal, member*
- 4.Dr.V.K.Sharma,member*
- 5.Dr.Netram Kaurav, member*

Objectives:

The main objectives of the Research Committee during the year 2019 were:

- Organization of research workshops and conferences to enhance the research capabilities of faculty and students*
- Generation of funding sources for research projects*
- Publications and Research Outputs*

Activities and Achievements:

a. Research Support and Funding:

- Each faculty member provided an update on the status of their ongoing research projects. Progress, challenges, and preliminary findings were discussed for each project.
- Seed money was allocated and utilized by faculties.

b. Research Collaboration:

- The committee explored possibilities for collaboration with external research institutions, industries, and funding agencies. Contact persons were designated to initiate communication with potential partners.

c. Research Dissemination and Publications:

- The committee conducted a brainstorming session to identify potential areas of research that align with the college's strategic goals and address current societal challenges.

d. Research Ethics and Compliance:

- The committee discussed the adherence to research ethics guidelines and compliance with institutional regulations. It was highlighted that all research activities should be conducted with integrity, ensuring the safety and welfare of participants and the responsible use of research funds.

e. Research Infrastructure and Resources:

- Conducted a thorough assessment of the existing research infrastructure in the college. This included evaluating the availability and condition of laboratories, equipment, research libraries, software licenses, and other resources.

Future Plans:

The future plans of Research Committee are to:

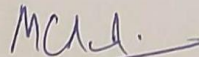
- Identify specific research themes and prioritize areas for focused research in the coming year.

- *Initiate communication with potential external partners for research collaborations.*
- *Plan and schedule research workshops and seminars for the next academic semester.*
- *Formulate guidelines for the establishment of interdisciplinary research groups.*
- *Regularly monitor and evaluate the progress of ongoing research projects.*

Acknowledgments:

We extend our gratitude to the college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP).

The Research Committee can play a pivotal role in fostering a vibrant research culture and elevating the college's reputation as a hub for innovation and scholarly excellence. The pursuit of these goals will contribute to the overall academic growth and advancement of knowledge within the institution.



Dr. M. K. Dwivedi

Convener, Research Committee

Government Holkar (Model, Autonomous) Science College Indore (MP)

Research Committee Annual Report

Year-2020

(From 01.01.2020 To 31.12.2020)

Introduction:

The annual meeting of the Research Committee was convened to review the progress made during the previous academic year and discuss plans for the upcoming year. This annual meeting serves as a testament to our collective commitment to push the boundaries of knowledge, constantly seeking solutions to real-world challenges, and driving positive change within our academic community and beyond.

Research Committee Members:

The Research Committee comprised the following members during the year 2020:

1. Dr. M. K. Dwivedi, Convener
2. Dr. V. Gadgil, member
3. Dr. S. Iqbal, member
4. Dr. V. K. Sharma, member
5. Dr. Netram Kaurav, member

Objectives:

The main objectives of the Research Committee during the year 2020 were:

- To review the progress of ongoing research projects and initiatives.
- To discuss potential areas of research for the upcoming academic year.
- To explore opportunities for collaboration with external organizations and funding agencies.
- To plan and organize research-related events, workshops, and seminars.

Activities and Achievements:

a. Research Support and Funding:

Plans were discussed to organize research workshops and seminars for faculty and students to enhance research capabilities. Suggested topics included research methodology, data analysis, and academic writing.

- Faculty members provided an update on the status of their ongoing research projects. Progress, challenges, and preliminary findings were discussed for each project.
- Seed money was allocated and utilized by faculties.

b. Research Collaboration:

- The idea of creating interdisciplinary research groups to foster collaboration between departments and faculties was proposed. Further discussions on how to implement this initiative will be held in the next meeting.

c. Research Dissemination and Publications:

- The committee outlined a process to evaluate the impact of research outputs, such as publications, conference presentations, and intellectual property development.

d. Research Ethics and Compliance:

- A research ethics training session was conducted for faculty and students, raising awareness of ethical guidelines and best practices in research.

e. Research Infrastructure and Resources:

- The committee explored the possibilities to enhance the college's research library by subscribing to a wide range of academic journals, databases, and research repositories, access to online resources and databases that are crucial for literature reviews and data analysis.

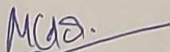
Future Plans:

The future plans of Research Committee are to: Raise awareness about intellectual property rights and the process of patent filing. Support researchers in protecting and commercializing their intellectual property. Explore ways to secure additional funding for research activities.

- Discuss strategies for applying to grants, seeking corporate sponsorships, and creating partnerships with funding agencies to increase the research budget.
- Identify specific research themes and prioritize areas for focused research in the coming year.
- Plan for the acquisition of modern equipment, software licenses, and other resources to enhance research capabilities.
- Consider organizing an annual research symposium or awards ceremony to honor outstanding researchers and their contributions.
- Assess the current research infrastructure and equipment and identify areas that need improvement.

Acknowledgments:

We extend our heartfelt appreciation and gratitude to college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP). Your unwavering dedication and commitment to fostering a robust research culture in the college have been instrumental in driving our institution's pursuit of academic excellence and innovation.



Dr. M. K. Dwivedi

Convener, Research Committee

Government Holkar (Model, Autonomous) Science College Indore (MP)

Research Committee Annual Report

Year-2021

(From Jan 01,2022 To Dec 31,2022)

Introduction:

This annual report provides an overview of the activities, achievements, and progress of the Research Committee at Government Holkar (Model, Autonomous) Science College Indore (MP) during the year 2021. The report highlights the initiatives undertaken to promote research, foster collaboration, and enhance the research ecosystem within the college.

Research Committee Members:

The Research Committee comprised the following members during the year 2021:

1. Dr. M. K. Dwivedi, Convener
2. Dr. V. Gadgil, member
3. Dr. S. Iqbal, member
4. Dr. V. K. Sharma, member
5. Dr. Netram Kaurav, member

Objectives:

The primary objectives of the Research Committee during the year 2021 were to:

- Promote a culture of research and innovation among faculty and students.
- Facilitate and support high-quality research projects and initiatives.
- Enhance research collaboration within the college and with external partners.
- Promote research dissemination and publication activities.
- Identify and pursue funding opportunities for research projects.
- Monitor and evaluate the progress of ongoing research activities.

Activities and Achievements:

a. Research Support and Funding:

- Facilitated the dissemination of funding opportunities and grants to faculty members and researchers.
- Assisted in the preparation and submission of research grant proposals.
- Collaborated with funding agencies and organizations to secure research funding.
- Monitored the progress and outcomes of funded research projects.
- Seed money was allocated and utilized by faculties.

b. Research Collaboration:

- Organized research-focused events, seminars, and workshops to encourage collaboration among researchers and faculty members.
- Established partnerships and collaborations with other academic institutions, industry partners, and research organizations.
- Supported the development of interdisciplinary research projects and initiatives.

c. Research Dissemination and Publications:

- Encouraged and supported faculty members and researchers in publishing their research findings in reputed journals and conference proceedings.
- Organized research paper presentations and poster sessions within the college.
- Recognized and celebrated faculty members' research achievements and publications.

d. Research Ethics and Compliance:

- Ensured compliance with research ethics and guidelines by providing guidance and support to faculty members and researchers.
- Conducted workshops and training sessions on research ethics, plagiarism awareness, and responsible research practices.

e. Research Infrastructure and Resources:

- Collaborated with college administration to enhance research infrastructure, including laboratory facilities, equipment, and software.
- Facilitated access to research resources, databases, and online journals for faculty members and researchers.

Future Plans:

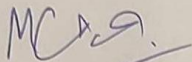
Looking ahead, the Research Committee aims to:

- Expand research collaborations and partnerships with industry, government agencies, and international institutions.
- Organize research symposiums or conferences to showcase the research achievements of the college.
- Strengthen the research support system by offering more funding opportunities and resources.
- Foster a research-friendly environment through continuous engagement and support to faculty members and researchers.
- Encourage the participation of students in research activities and provide opportunities for their research development.

Acknowledgments:

We extend our gratitude to the college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP)

This annual report reflects the collective efforts and commitment of the Research Committee in promoting research excellence and innovation within the college. We remain dedicated to fostering a vibrant research culture and further advancing the research agenda in the coming years.



Dr. M. K. Dwivedi
Convener, Research Committee

Government Holkar (Model, Autonomous) Science College Indore (MP)
Research Committee Annual Report
Year-2022
(From 01.01.2022 To 31.12.2022)

Introduction:

The annual meeting of the Research Committee was convened to review the progress made during the previous academic year and discuss plans for the upcoming year. The meeting was attended by committee members dedicated to promoting and supporting research activities within the college. The annual report prepared by the research committee serves as a testament to our collective commitment to push the boundaries of knowledge, constantly seeking solutions to real-world challenges, and driving positive change within our academic community and beyond.

Research Committee Members:

The Research Committee comprised the following members during the year 2022:

1. Dr. M. K. Dwivedi, Convener
2. Dr. V. Gadgil, member
3. Dr. S. Iqbal, member
4. Dr. V. K. Sharma, member
5. Dr. Netram Kaurav, member

Objectives:

The primary objectives of the Research Committee during the year 2022 were to:

- Research Funding Allocation
- Promotion of Interdisciplinary Research
- Support for Student Research
- Research Impact Assessment
- Open Access and Data Sharing

a. Research Support and Funding:

- Determined the allocation of research funds to various approved projects based on their merit and alignment with the college's research priorities.
- Collaborated with funding agencies and organizations to secure research funding.
- Monitored the progress and outcomes of funded research projects.
- Seed money was allocated and utilized by faculty.

b. Research Collaboration:

- Explored opportunities for research collaboration with external institutions, organizations, or industry partners.
- Discussed potential benefits and establish pathways for collaboration.

c. Research Dissemination and Publications:

- Strategies were discussed to increase the college's research output, including publication in reputable journals, presentations at conferences, and patent applications.

d. Research Ethics and Compliance:

- Ensured that all proposed research projects meet ethical standards and comply with relevant regulations.
- Discussed any ethical concerns raised during the project evaluation process.

e. Research Infrastructure and Resources:

- Reviewed the current state of research infrastructure and facilities within the college.
- Identified areas for improvement or investment.

Future Plans:

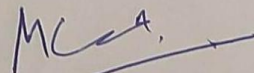
Looking ahead, the Research Committee aims to:

- Expand research collaborations and partnerships with industry, government agencies, and international institutions.
- Organize research symposiums or conferences to showcase the research achievements of the college.
- Strengthen the research support system by offering more funding opportunities and resources.
- Foster a research-friendly environment through continuous engagement and support to faculty members and researchers.
- Encourage the participation of students in research activities and provide opportunities for their research development.

Acknowledgments:

We extend our gratitude to the college administration, faculty members, researchers, and students for their active participation, support, and contributions to the research activities at Government Holkar (Model, Autonomous) Science College Indore (MP).

We would like to acknowledge the collective efforts of each committee member in reviewing the progress made during the past year and setting forth ambitious plans for the future.



Dr. M. K. Dwivedi
Convener, Research Committee