

PBCOE

Priyadarshini Bhagwati College of Engineering Nagpur
An Autonomous Institution Affiliated to R.T.M. Nagpur
University, Nagpur

RESEARCH AND DEVELOPMENT

Research and Development Policy

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RESEARCH AND DEVELOPMENT

Research Policy

1. About Institute

Established in 2007, PBCE aims at "Empowerment Through Knowledge." It offers nine undergraduate programs, including modern specializations like AI, Data Science, and Robotics, along with postgraduate and research programs. The campus features modern classrooms, well-equipped labs, and a resource-rich library with access to global journals.

Faculty & Research Environment:

The experienced faculty not only supports academic excellence but also leads and participates in innovative research activities. The Institute actively encourages faculty, scholars, and students to engage in both funded and non-funded research for the betterment of society.

Research Vision:

PBCE recognizes research as the backbone of knowledge creation, innovation, collaboration, and societal impact. The Research Policy reflects this commitment and provides a structured environment to support research efforts.

2. Purpose

The purpose of the Research Policy is to build a vibrant atmosphere of research and development among faculty members, researchers and inculcate research aptitude among the students and research scholars. The policy shall serve as an overall outline within which research and development activities may be carried out. It also aims to identify thrust areas of research in respective development having social relevance and thereby complementing the vision and mission of the Institute. The Research Policy also emphasizes on to promote the research and innovation with contemporary and useful for the society and ultimately for nation-building.

3. Scope

The Research Policy forms the basics of the research ethics of the Institute and is implemented in all the departments to create high quality research ambience and it serves as the guidelines for the functioning of the Institute Research Committee of the Institute. The implementation and updating of the Research Policy is carried out by the Institute Research Committee. The Research Policy shall have an Institute Research Committee

to function under the Board of Governance, to assist and advice in matters related to research withing the Institute.

RESEARCH & DEVELOPMENT CELL

Research and Development (R&D) is an essential pillar in the academic and professional growth of an institution. In a dynamic and knowledge-driven economy, higher education institutions must contribute not only through quality teaching but also by generating new knowledge, and technologies. This R&D Policy outlines the institutional commitment to fostering a strong research ecosystem, supporting both fundamental and applied research, and promoting interdisciplinary collaborations to solve real-world problems.

Aim

- To create research awareness amongst our faculty members and students.
- To facilitate mutual cooperation between researchers for interdisciplinary research.
- To establish a forward and backward linkage among different sectors like Industry, R&D organizations, foreign universities
- To work towards developing PBCOE as internationally recognized R&D Centre

Objectives

- To organize various events like national and international conferences, Seminar & workshops on research methodology and patents, symposia, guest lectures in order to achieve the pre-stated aim enhancing the research awareness.
- To have faster collaboration and interaction with researchers working on disciplinary and interdisciplinary research.
- To encourage every faculty member for research proposal writing and to participate in R&D activities leading to Doctoral degree.

4. Strategies

The following activities are framed in order to strengthen the research culture in the Institute

- a. Involvement of all faculty members and more no of students in research activities
- b. Establishing new center of excellence for research and to strengthen the existing ones
- c. Organization of workshops, interactive sessions and hands-on-training programs for teachers
- d. Setting up a multidisciplinary research center
- e. Encouraging faculty members and students to attend national / international conferences / symposia
- f. Organization of national / international conferences / symposia / workshops
- g. Development of linkages and collaborations with academia and industries
- h. Apply to funding agencies for funding support for research activities
- i. Encouragement for research paper publication in authentic and genuine research peer reviewed journals preferably covered in Web of Science / Web of Social Science and / or Scopus databases
- j. Emphasize on the collaborative research
- k. Journal Club in each department
- l. Provision of incentives to promote quality research outcomes

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Consultancy Policy

1. Purpose

The purpose of this policy is to promote consultancy activities by faculty and staff, encourage industry-institute collaboration, and use the expertise available in the college to solve real-world problems.

Consultancy is professional advice, service, or technical support provided by faculty or staff of the college to industry, government agencies, academic institutions

2. Objectives

- To encourage faculty to take up consultancy projects.
- To strengthen links with industry and society.
- To use knowledge and skills of faculty for practical applications.
- To generate additional income for faculty and the college.
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3. Role of Consultancy Cell

The **Consultancy Cell** at the college will:

- Promote consultancy activities among faculty.
- Assist in proposal preparation and submission.
- Approve and monitor consultancy work.
- Maintain records of all consultancy projects.
- Help in financial and legal matters related to consultancy.

4. Types of Consultancies

1. Eligibility

The Policy is applicable to the entire team of faculty members and staff PBCOE.
Types of consultancy projects as follows

a) Type-I Consultancy Project (Without any resources from Institute)

Consultancy Project related to taken up by any faculty member on behalf of Department / Institute will be treated as Individual Consultancy Projects. Consultancy Project which do not require laboratory facilities of the Departments / Institute will be classified as Type-I Consultancy Projects.

b) Type-II Consultancy Project (involving Laboratory facilities and Other Facilities)

Consultancy Projects involving use of laboratory facilities of the Departments / Institute will be classified as Type-II Consultancy Projects. Such projects will cover testing, measurements, calibration of equipment / instruments and testing of materials / equipment in laboratory etc, field testing and measurement and research and development work using laboratory facilities, as a part of that consultancy project.

5 Norms for accepting consultancy project

The Consultancy Committee consisting of the following members is constituted

1	Principal	Chairman
2	Dean, Research and Development	Member
3	C0-Dean , Research and Development	Member
3	HODs	Member
4	Technical expert(s) in subject area	Member(s)
5	Finance Officer	Member

Policy for Revenue Sharing in Consultancy

Institute facilities and resources may be used for consultancy work and must be charged with consultancy amount. Revenue sharing between staff and institute shall be as given below, after deducting all actual expenses incurred in it.

Sr. No.	Policy for Sharing	Type I	Type II
1	Institute	20%	37%
2	Principal Consultants	80%	60%
3	Team involved <ul style="list-style-type: none">• Lab Assistant• Lab Attendant	--	3%

6. Use of College Resources

If college laboratories, equipment, or staff are used for consultancy work, proper permission must be taken. Charges may apply depending on the extent of resource use.

7. Time Limit

Consultancy work must not affect teaching or academic responsibilities. Faculty should ensure that consultancy activities are done beyond their regular teaching duties or with proper planning.

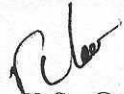
8. Confidentiality and Ethics

Faculty involved in consultancy must:

- Maintain confidentiality of client information.
- Avoid conflict of interest.
- Follow ethical and professional standards.


9. Record Keeping

All consultancy projects must be registered with the Consultancy Cell. A brief report, financial summary, and client feedback should be submitted at the end of each project.



Dr K S Gour

Dean R&D



Dr A M Shende

PRINCIPAL

PBCOE

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Intellectual Property Right

1. Preamble

Bhagwati College of Engineering, Nagpur, is committed to fostering innovation, creativity, and knowledge generation among its faculty, students, researchers, and staff. This IPR Policy aims to establish a framework to protect the intellectual property generated within the institution and ensure its ethical and effective utilization for the benefit of the creators, the college, and society at large

2. Objectives

- To promote awareness of intellectual property rights among stakeholders.
- To encourage the creation, protection, and commercialization of innovative ideas and inventions.
- To provide guidelines for ownership, protection, and management of intellectual property.
- To safeguard the interests of inventors and the institution.
- To establish a transparent mechanism for revenue sharing.

3. Scope

This policy applies to all faculty members, students, researchers, project staff, and collaborators associated with Bhagwati College of Engineering, Nagpur, who create intellectual property as part of their academic or research activities.

4. Definitions

- **Intellectual Property (IP):** Includes patents, copyrights, trademarks, industrial designs, trade secrets, integrated circuits, and software.
- **Creator/Inventor:** Any person or group involved in the generation of IP.
- **Commercialization:** The process of bringing IP to the market through licensing, assignment, or entrepreneurship.

5. Ownership of IP

- IP created using significant institutional resources, facilities, or as part of sponsored/consultancy projects shall be jointly owned by the creator(s) and Bhagwati College of Engineering.
- In cases where external funding agencies are involved, IP ownership will be governed as per the terms of the agreement with the sponsor.
- IP developed without substantial use of college resources or during personal time will be owned solely by the creator(s), subject to institutional review.

6. Disclosure and Evaluation

- All creators must disclose their IP to the **Institutional IPR Cell** using the prescribed form.
- The IPR Cell will evaluate the novelty, commercial potential, and legal aspects of the disclosed IP.

- Upon approval, the college will proceed with the filing of IP applications.

7. Protection and Filing

- The IPR Cell will facilitate filing for patents, copyrights, trademarks, etc., in coordination with registered IPR attorneys.
- The cost of filing and maintenance of IPR will be borne by the institution or shared with external partners/sponsors.

8. Revenue Sharing

Any revenue generated through licensing or commercialization of IP will be shared as follows (subject to revision):

- Creator(s): 70%
- Institution: 30%

In case of joint inventors, the creator's share will be distributed equally unless otherwise agreed.

9. Commercialization and Licensing

- The institution may commercialize IP through licensing, spin-offs, startups, or transfer to third parties.
- The IPR Cell will negotiate fair terms with potential partners and ensure protection of institutional and inventors' interests.

10. Confidentiality and Publication

- Creators must maintain confidentiality of IP until protection is secured.
- Prior approval from the IPR Cell is required before public disclosure (conference, journal, etc.).

11. Dispute Resolution

Any dispute arising out of the interpretation or implementation of this policy shall be resolved by a committee comprising:

- Principal/Director
IPR Cell
- Legal advisor (if needed)
- Concerned faculty/staff


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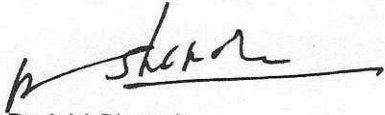
Research Ethics Policy

Priyadarshini Bhagwati College of Engineering Nagpur is steadfast in promoting and maintaining high values of integrity and accountability in the conduct of academic and scientific research and is dedicated to embed and endorse a culture of honesty and transparency in all its institutional activities. In addition, it educates and monitors faculty members and students conducting research to ensure a high ethical standard. Following are the ethical guidelines

1. For there to be a free flow of ideas, researchers must have mutual trust and understanding.
2. Throughout the study process, the results and publishing credit should be discussed and agreed upon in order to recognize the efforts.
3. The facts and findings should be reported honestly.
4. Respect for scientific knowledge should coexist with scholarly viewpoints.
5. Research should be carried out responsibly, and the procedures and outcomes should adhere to legal requirements.
6. To make the results publicly accessible to the scientific community, they should be published in journals or conference proceedings.
7. Faculty members are urged to foster an atmosphere of collaboration in order to advance the Institute's goals and objectives.
8. To improve their research skills, faculty members are urged to participate in lectures and research workshops.
9. Researchers are not allowed to engage in any kind of academic misconduct, including plagiarism, misunderstanding, infringement of intellectual property rights, breaking Institute regulations, etc.
10. A quality anti-plagiarism check should be performed on the project report or thesis; only the thesis will be approved for submission if the similarity score is less than 15%.


Dr Kavita Gour

Dean Research and Development


Dr A M Shende

PRINCIPAL