



RESEARCH & INNOVATION POLICY



INTERNAL QUALITY ASSURANCE CELL
BARKATULLAH UNIVERSITY,
BHOPAL

Mission and Goal

Our mission at Barkatullah University, Bhopal is to be the leader in advancing the frontiers of knowledge creation. The purpose of this research and innovation policy is to provide researchers, an environment where they could accomplish their academic excellence, research commitments and responsibilities within the resources they have in hand or the university could provide so that they may be motivated for knowledge creation.

We envision a community of research scientists at all departments working to further strengthen the University's reputation for excellence in scientific research and extend it in the areas of emerging sciences, arts and social sciences through collaborations with basic scientists and researchers across the borders.

We support our mission and the fulfillment of this vision by striving towards the following goals:-

- Ø Ensure scientific excellence, innovation, and leadership through the recruitment and retention of outstanding faculty.
- Ø Integrate undergraduate, graduate, and postdoctoral education into all aspects of our research.
- Ø Reinforce our position as leaders in the translation of new knowledge and scientific innovation into useful applications with patent rights.
- Ø Identify and foster strong interdisciplinary research efforts based on individual disciplinary strengths.
- Ø Promote efficient use of the advanced instrumentation resources for research.

Strategic Assessment

The faculty research programs have long been recognized as one of the defining elements. Barkatullah University has a reputation for excellence in scientific research and innovation. This established strength is acknowledged and reinforced by the department's mission statement. We are committed to remaining research-intensive departments. The high quality of the departments' research programs reflects the calibre of the research scientists and as a result, the quality of the Ph.D students and postdoctoral scholars with whom they associate. Many elements and characteristics of the departments contribute to the continued excellence of its research. Most faculty members have collaborations with overseas scientific and organizations in addition to their distinguished laboratory facilities. Collectively, these factors create and reinforce a unique culture of collaborative innovation among the departments' researchers, presenting a distinguishing opportunity for the future. Along with these benefits, the relatively small sizes of departments also present certain challenges. Faculty turnover has been limited and has resulted in more retirement than recruitment of new faculty. Also, with a small group of faculty members, the loss of a key and senior member can have a major impact on continuing programs. The past successes of research enterprise and the associated economic strengths of local information technology and biotechnology industries also present challenges to the future success of the various departments' research programs. Successful recruitment of new faculty and availability of advanced instrumentation are indispensable for speedy growth of research. A number of internal constraints, conventions, and organizational structures may also present challenges to a contemporary research agenda. These include organizational and procedural barriers and limitations in facilities development.

While the continued strength of its research programs represent a key opportunity for the departments, its success will be dependent on the ability to meet these critical issues.

Our Initiatives

Our mission and vision for research will be pursued through coordinated efforts of faculty, facilities renewal, collaboration and rational resource allocation.

To achieve our goal, we will start the following initiatives:

Faculty Excellence

- Ø Establish a research funding facility preferably for new junior faculty.
- Ø Develop reserve funds, and space for allocation to promising new areas of research.
- Ø Establish guidelines for ongoing evaluation of new programs.

Education and Research Integration

- Ø Enhance available students funding to doctoral/post-doctoral scholars in their research activities.
- Ø Develop contemporary educational facilities, including adequate space for research facilities.
- Ø Develop programs to facilitate the interaction of all undergraduate, and post doctoral trainees.

Translational knowledge and Research

- Ø Develop comprehensive core facilities for translational knowledge and research.
- Ø Establish translational research facilities in all new faculties.

Promote Collaborations

- Ø Mitigate existing cultural and geographic barriers.
- Ø Establish a management structure to ensure the efficient processing of research proposals and ethical conduct of research.
- Ø Include collaborating departments in faculty and promotion processes.
- Ø Require the documentation and analysis of opportunities for translational research in all disciplines.
- Ø Promotion of research to application and filing significant results as Patents.

Strong Interdisciplinary Research

- Ø Develop governance mechanisms for interdisciplinary programs and organizational models for departments.
- Ø Create a reserve fund for interdisciplinary programs.
- Ø Create research seminar series featuring interdisciplinary research opportunities.
- Ø Establish a faculty research network website to provide information on faculty research interests and collaborative opportunities.
- Ø Enhance activities of Patent Cell.

Rational Resource Allocations

Develop a comprehensive research core facility, incorporating the following principles:

- Ø Effective management and communication.
- Ø Rational budgetary provision to pursue entrepreneurship through university research facilities, reward creativity for original thinking and publication of research works.
- Ø Develop adequate space for advanced instrumentation facility under SIT scheme.
- Ø Develop a transparent process for efficient use of these facilities.
- Ø Develop a standard method for evaluating investments in new research opportunities and to develop Intellectual Property Right (IPR).
- Ø Establish new faculty recruitment policies.

Prioritization and Implementation

The further development, prioritization, and implementation of these initiatives will be led by the Dean of different faculties, in consultation with faculty research committee. Of the 21 initiatives proposed for the department research programs, the following have been prioritized for development and implementation in initial phases. These priority initiatives reinforce the importance of interdisciplinary translational research in the future success of the departments.

Education and Research Integration Projects:

Develop contemporary educational facilities, including adequate space in research facilities.

The programming, design and construction of new educational facilities are critical to the successful implementation of new education and innovation system as well as planned initiatives in graduate education and postdoctoral training. As envisioned, the Barkatullah University will reflect the new model of biomedical sciences and the emerging new relationships between information and its users.

Translational Research Projects

Promote collaborations between basic and applied scientists within the departments and across the university through:

- Ø Mitigation of existing “Cultural and geographic barriers.
- Ø Inclusion of collaborating departments as partners in faculty search and promotion processes.

The Dean of various faculties, in collaboration with the faculty committee on research to develop recommendations for organizational and operational initiatives required to support the faculty’s pursuit of research opportunities and the eventual translation of research findings into useful practice at Barkatullah University.

Interdisciplinary Research Projects:

Hold a research meeting to establish new program priorities

The Deans for Science, Arts and Social Sciences will work with the faculty research committee to establish a focused program and agenda to develop proposals to establish research programs and resource priorities.

Establish guidelines for the creation and governance of interdisciplinary groups.

The Deans for Science, Arts and Social Sciences will continue the development of the proposed policies and procedure for departments, in general, and a Scientific Instrument Facility (SIF), in particular. Both documents will be reviewed by the faculty research committee and brought to the department Executive Committee for review and approval.

Create a faculty research network website

The Deans with support from other Dean for Information Resources and Technology will continue the development of a Faculty Research Network website.

Resources Allocation Projects:

Develop a comprehensive core facilities incorporating the principles of :

- Ø Effective management and communication
- Ø Rational budgetary allocation
- Ø Accessibility and affordability,
- Ø Sustainability

The Deans for Science, Arts and Social Science will work with the faculty research committee to:

- Ø Develop a working definition of “core facilities.”
- Ø Evaluate departments’ inventory of core facilities, including their service, organization and management relative to the above principles.
- Ø Develop recommendations for departments’ core facilities operations and management.

BARKATULLAH UNIVERSITY, BHOPAL

Internal Quality Assurance Cell

Name	Designation/ Department	Position
Prof. R. J. Rao	Vice- Chancellor	Chairman
Prof. D. C. Gupta	Dept. Of Earth Science	Coordinator
Shri K. G. Dixit	Stake Holder	Member
Shri Manoj Mishra	Social Worker	Member
Shri Ajit Shrivastava	Registrar	Member
Prof. K. B. Panda	Dean, Arts	Member
Prof. K. N. Tripathi	DCDC	Member
Prof. Bhupinder Singh	DSW	Member
Prof. Ragini Gothwal	Dean, Life Science	Member
Dr. Sadhna Singh	Head, Dept. of Physics	Member
Dr. Vipin Vyas	Head, Dept. of Zoology and Applied Aquaculture	Member
Shri Yashwant Patel	Dy. Registrar	Member
Smt. Sarita Chauhan	Dy. Registrar	Member
Shri P. K. Sharma	Finance Controller	Member