



RESEARCH POLICY

"The purpose of this policy is to establish consistent guidelines for Academic Research and Innovation as well as R&D activities in the University."



Bundelkhand University

Kanpur Road, Jhansi- 284128, Uttar Pradesh, India

FROM THE DESK of VICE CHANCELLOR



Welcome to Bundelkhand University, Jhansi

Bundelkhand University has a lot of potential in Research and Development, ofcourse Bundelkhand region itself is very rich with the natural resources. The need of the hour is to explore and provide sustainable development for this region. The Research team is working hard for extracting good research that definitely provide ease of life in this region. I extend good wishes.

Prof. Mukesh Pandey

Vice Chancellor

Bundelkhand University Jhansi (UP), India

Established on 26th August, 1975, bundelkhand University is emerging as a prominent centre of higher learning encompassing more than 120 courses in 9 Faculties with 27 institutes and 38 departments. It is delivering education to more than 9 thousand students on campus and 3 lac students in its 367 affiliating colleges.

Recognized as **Number One University** by the State Government of Uttar Pradesh consecutively for three academic years, it is the only premier institution which has been **accredited three times by the NAAC** with B++, listed in **68th rank in NIRF** for Pharmacy and is **certified with ISO 9001** for Quality Management Services.

VISION

The University aims to become a world-class institution by tapping human potential to lead the country in changing national, regional and global scenario.

MISSION

To impart quality vocational and scientific education through basic and applied research, to improve the quality and value of human irrespective of gender, caste, nationality and religion.



RESEARCH POLICY

Title	:	BUNDELKHAND UNIVERSITY RESEARCH POLICY
Issuing Authority	:	Vice – Chancellor and Academic Council
Responsible Officer(s)	:	Registrar
Purpose of this Policy	:	The purpose of this policy is to establish consistent guidelines for Academic Research and Innovation as well as R & D activities in the University.

Bundelkhand University
Kanpur Road, Jhansi-284128 (U.P.) INDIA

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1. Introduction

The National Education Policy (NEP) 2020 envisages the promotion of quality research in higher education for addressing the societal challenges of our country and laying the foundation of Atma-Nirbhar Bharat (Self-reliant India) which require a strong and vibrant higher education ecosystem with an emphasis on research, innovation and technology development. To meet the NEP-2020 objectives regarding promotion of advanced research & innovation in Bundelkhand University, a research policy name 'BU Research Policy' is designed in the light of UGC guidelines with following details.

1.1 Scope/Applicability of the Policy

This document on BU Research Policy Guidelines will apply to all BU faculty, staff, and students involved in any form of research activity.

1.2 Policy Statement

Bundelkhand University Jhansi is committed to being a Research and Innovation-Driven University. BU aims to see India become a global knowledge superpower through education, research and innovation. To attain this goal, it is absolutely important to pursue cutting-edge basic, targeted and applied research in all domains/faculty of studies in a transparent, responsible, and ethical manner for the advancement of knowledge and development of novel processes, technologies and products. It is equally important to ensure that the products and outcomes of such research are appropriately disseminated to reach the widest possible audience at both national and global levels. This policy provides a set of guidelines for the conduct of research at all level and applies to all full-time, part-time as well as contractual employees of the University and all students, whether full-time or part-time, of the University who may be involved in any form of research activity.

1.3 Rationale

- 1.3.1 In the best traditions of the Bundelkhand University, Jhansi considers the transmission of knowledge and conduct of scholarly inquiry as to the central functions of the University that are dedicated to research and innovation. These functions require that the faculty, scholars, and

students are guaranteed a certain degree of freedom and that they too accept certain obligations and responsibilities, correspondingly.

- 1.3.2. At the outset, it is broadly stated that BU research policy is to ensure that individual scholars are free to select their broad and narrow disciplines, or interdisciplinary perspectives to narrow down the subject matter of their research and to seek support from other institutes in Bundelkhand or outside to source their work. They are also free to form their own opinion, theories, explanations, findings in their research report where they draw certain conclusions.
- 1.3.3. However, these findings and conclusions must be open to both internal (through a Research Sub-Committee mechanism) and external scrutiny (by individuals and agencies that assess and evaluate, proposed patents, and research), and for inviting the criticism as required by the University's Policy on Openness in Research.
- 1.3.4. It is important to emphasize that all research reports and publications arising out of BU research Programme must carry the correct affiliation (Bundelkhand University Jhansi) in the credit/address tag lines in the published version as books, research papers, book chapters, articles, and on-line or off-line reports.
- 1.3.5. At the same time, University Research Policy is not to allow use of a research or survey methodology or technique that is in violation of professional ethics pertaining to the health, safety, privacy, and other personal rights of human subjects or to the infliction of injury or pain on animals and living organisms.
- 1.3.6. As an academic institution of distinction, BU offers an environment that is conducive to research in all fields of knowledge cultivation. However, because of limitations on both infrastructure, funding and manpower requirements the University cannot support all research demands. The BU allocated lab, library, design table and drawing and sculpting board spaces and facilities, and other resources such as its own funds to match with that of the funding agencies for research Programmes depending on the merits of the research proposals.
- 1.3.7. The University does not encourage any speculations or discussions on any kind of platform (including social media) concerning the political or moral impropriety or the uses which might be made of its results of research. The university would provide fora in the form of a 'University Research Committee' for discussions of this nature if need arises and if there arises controversies in this respect.

- 1.3.8. It is also mandatory to ensure that BU research platform are not used to argue against the widely acclaimed research positions or against the national policies of India or against the university accepted international laws and provisions.
- 1.3.9. The above principles circumscribe the University's role with respect to University – connected research. They are not intended to diminish the individual researcher's personal responsibility to assure that the conduct of research, the sources of funding for the same and its perceived applications are consistent with the individual researcher's judgment and conscience, and with both established professional ethics and national security and national interest. For example, all research involving genetically modified organisms (GMO) / living modified organisms (LMO) and recombinant DNA (rDNA) materials shall be conducted in compliance with "Rules for the manufacture use / import / export and storage of hazardous microorganisms / genetically engineered organisms or cells, 1989" as notified by the Ministry of Environment and Forest (MoEF) Government of India under the Environment (Protection) Act, 1986. Recombinant DNA (rDNA) safety guidelines, 1990, and other guidelines issued by DBT from time to time, such research will be undertaken with the approval and oversight of the statutory. There are similar guidelines by DST (Department of Science and Technology) and /or Ministry of Electronics and Information Technology, Government of India.

1.4 Research Objectives

BU also encourages its faculty to serve its research goals through their primary commitment to engaging in teaching, research, industry connect, and other support activities that are consonant with the values of the University. In addition, to further BU research and collaboration, it also is appropriate and often desirable for faculty members to participate in both government-funded and private activities beyond this campus by engaging in academic and professional activities including public service and consulting that may ultimately benefit the BU. In fact, all BU faculty members are expected to undertake research activities in addition to their teaching and administrative responsibilities. All research activities should be undertaken in compliance of the University Research policies. The BU research objectives are to –

- 1.4.1. Affirm research as an integral activity at the University;
- 1.4.2. Maintain and enhance the quality of research undertaken;
- 1.4.3. Maximize funding support for research through external and internal sources;

- 1.4.4. Create transparent, effective and efficient systems for maximizing research outputs;
- 1.4.5. Integrate research activities undertaken by the undergraduate, post-graduate and doctoral students with the research focus of the University in alignment with the national thrust areas; Create, maintain and enhance infrastructure to enable conduct of state-of-the-art research;
- 1.4.6. Provide a framework for conduct of research in a transparent, socially responsible and ethical manner
- 1.4.7. Ensure a facilitating environment for the conduct of high-quality original research by all individuals affiliated with the University and provide continued and effective support for the pursuit of research activities.
- 1.4.8. Translate new knowledge, innovations, technologies, and tools emerging out of research conducted at Bundelkhand University into products and processes for commercialization or societal benefit.
- 1.4.9. Protect Intellectual Property (IP) generated as a result of research conducted at Bundelkhand University.
- 1.4.10. Integrate research activities undertaken by the students with the research focus of the University.
- 1.4.11. Create a rational, transparent, and efficient system for the management of all research processes.
- 1.4.12. Encourage and facilitate research collaborations within different Institutes of the University along with reputed Institutes, Universities, and Research Organizations both in India and abroad.
- 1.4.13. Ensure effective dissemination of research activities and achievements of the University both internally and externally, and,
- 1.4.14. Enhance the research profile of the University by effective dissemination of research activities and achievements of the University at all levels to maximize the impact and recognition of research done at Bundelkhand at national and international levels.

1.5. Research Governance & Management

In Research Governance & Management there will be a University Research Committee (URC) headed by the Vice-Chancellor as the apex body. URC may form **Executive**

Standing Committees to smoothen its functioning regular monitoring of all research activities with respective Committee members, duly approved by Hon'ble Vice-Chancellor.

1.5.1. **The composition of the URC will be as under:-**

The **University Research Committee (URC)** will be headed by the Head of the Institution (HOI), the Vice-Chancellor and will include Twelve (12) leading faculty researchers and administrators from different faculty of the Bundelkhand University, and 2-3 eminent experts from outside the University. The Dean Academics/HO nominee may be Convener of the URC. The URC will meet at least once a year (ideally, twice a year) to review research progress, offer critical comments, and suggest corrective measures to enhance the research activities of the University. The 'Term' of the URC, once constituted, will be for three (3) years after which the same members may be continued for another term. The members may be replaced in case of non-availability of existing member(s) for any reason. The composition of the **Executive Standing Committee and URC** will be decided by the Vice-Chancellor/ Academic Council.

1.5.2. **The role and function of the URC will be:-**

- To create a research ecosystem for reliable, impactful, and sustained research output.
- To make recommendations to the Academic Council on matters related to research promotion, innovations, research capacitance, infrastructure, etc.
- To comprehensively map the core and ancillary competencies, strengths & weaknesses, and soft skills of the faculty members to maximize research outputs from each individual.
- To take decisions on the recommendations of the Executive Standing Committee on research proposals for the intramural research funds.
- To facilitate the designing of custom-made Faculty Development Programmes in the advanced areas to improve upon the skills and maximize the contribution of BU faculty and researchers to the University.
- There may be domain-specific Research Sub-Committees too for research. Committees may include **Dean of Faculty with 2/3 HoDs (having Ph.D. degree) by rotation as members, 2/3 Senior Professors as members, and 2/3 external experts.** Such Sub-Committees will decide on the Long and Short-term Research Strategies in specific areas, monitor and review the research works.

2. Overview: Rights & Responsibilities

- 2.1 Ideally, there should be no conflict between the commitment of faculty and research staff of the University and other activities in which faculty and research staff members may engage themselves. It is expected that faculty and Project Investigators (PIs) will conduct their affairs to avoid or minimize such conflicts of interest, and should there not be any actual, potential, or perceived conflicts between one's private beliefs and interests and her/his professional obligations to BU, but if such matters exist they should be properly and promptly revealed by the Faculty, Staff, and PIs to the URC to resolve any such issues before engaging in research, development and innovation activities.
- 2.2 BU Research Policy would help all faculty and researchers in deciding as to what extent their individual and group activities may conflict with the faculty's primary commitment to teaching, research, and other responsibilities in the BU. The policies would be helpful to educate faculty, research staff, and Principal Investigators about situations that generate the potential for conflicts of interest or conflicts of commitment; to clarify expectations about disclosing such interests and activities that might result in conflicts; to identify means to manage, reduce or eliminate such conflicts; and finally to promote the best interests of students and others whose work depends on the direction of our faculty and Investigators.
- 2.3 The general principle in this matter is fairly simple. If a faculty member, research staff or Investigator has a query or a question about whether an activity is permitted under the University Research Policy, the faculty member or Investigator should disclose the potential or appearance of conflict to and seek guidance from his or her department chair or Dean of the faculty or Dean, Academic or the Office of the Vice-Chancellor.
- 2.4 Individual Institutes may wish to supplement this policy with policies applicable to their faculty and/or Investigators because there could be differences in the minute details as per the areas of research. To ensure consistency with the BU policies, such Institute/School policies must be approved by the Vice-Chancellor.
- 2.5 Faculty members will have the right to disseminate the results and findings of their individual or collaborative research without suppressing or modifying beyond the specific undertakings or provisions that may be written down and agreed upon by the sponsoring agencies, Universities, and researchers.

2.6 The Faculty and Researchers may also engage in external consulting activities as per the consultancy policy of the University.

3 Responsibilities of Researchers

3.1. Responsibilities of Faculty to Both Staff and Students

Faculty members must be aware of their obligations to staff and students working as part of the research team. It is particularly important that at least annually, each faculty member should review intellectual and tangible property rights and responsibilities (for management of data in all media, for proper authorship attribution, etc.), with all members of the group under his or her direction, including staff, students, postdocs, and visiting scholars.

Each member of the group should be well informed about the group research activities for maintaining transparency and belief. The University is committed to demonstrating support and appreciation for its research staff. To that end, faculty members are encouraged to provide staff development opportunities (such as FDPs and special Training Courses or Workshops) and, if possible, a mentor relationship for those in their research group.

3.2. Health and Safety

Each faculty member is responsible for advising and helping members of his or her team in appropriate health, insurance, and safety procedures that must be taken to work in a particular area of research, and for management of those procedures in his or her office or laboratory, studio or other work places.

PIs are directly responsible to assure the periodic inspection of lab facilities, taking corrective measures – if required, and cooperating in any inspections by safety personnel or by external agencies. Faculty members also need to ensure that approved research protocols for the use of human and animal subjects in research are obtained and followed.

3.3. Consulting by External Academic Staff – Research Personnel

The members of the academic staff or research personnel may be allowed to engage in outside consulting activities as per the University policy in this regard.

3.4. PI's Responsibilities to Sponsors

Although the legal agreement funding a sponsored project is between the funding agency and the BU, the responsibility for the management of a particular project within funding limitations will rest on PI also. Funds must be spent judiciously to remain within the restrictions of the

contract or grant.

If any overdraft should occur, or a change of head is needed, the PI should get it approved both within the administration and also by the sponsoring agencies, if needed.

3.5. PI's Responsibility for Research Equipment

The control, upkeep, and record-keeping of both BU-funded and Government-owned equipment is mandatory under the University rules as well as under the externally funded contracts and grants. University & PIs will be responsible for securing necessary approvals for the purchase of the equipment, proper tagging, maintaining inventory, utilization of equipment and peripherals, and disposal once the equipment becomes either obsolete or dysfunctional and irreparable or is in excess.

3.6. Utilization Certificates (UCs) and Statements of Expenditure (SE) of the Projects

The PIs will review and certify all expenditures of the respective projects. All funded projects and their costs or accounts must be reviewed and certified by the PI quarterly. It will be the responsibility of PIs to ensure completing work on time. The University administration shall ensure that all required facilitation is timely provided to the PIs for achieving the set objectives of the project. It will be a joint responsibility of the University administration and PIs to prepare and submit the UCs & SE to the funding agencies as and when required or asked to do so.

4. Application of General Principles & Other Matters

4.1. Inception, Technical and Invention Reports

Principal Investigators are responsible for submitting sponsor-required reports on a timely basis. Further, if going to patent the works, the PIs will submit an **Invention Report** that would form the basis of the patent application. to the PI any way. The research staff will help PIs to prepare the reports, get them signed by authorities, and submitting to the funding agencies.

4.2. Patents and Copyrights

All participating researchers, including postdocs, students, and visiting scholars will work towards taking the copyrights/patents of their research outcomes. It will enrich the patent profile of the researchers, faculty members, and the University as a whole.

4.3. Application of the General Principles

In furtherance of these general principles, the decisions concerning shall be made without regard to a person's political, social, or other views not directly related to academic values or the

assumption of academic responsibilities; without regard to the conduct of a person holding an appointment at BU in some other capacity, or without regard to an individual's race, ethnic origin, sex, or religion. The authorities will accordingly decide on -

1. The search for appointment and promotion of research staff.
2. The assignment of teaching and other primarily academic responsibilities.
3. The support and sponsorship of scholarly research.
4. Any other granting or withholding of benefits or imposition of burdens.

4.4. Grievance Procedures

The grievance procedures outlined elsewhere in the University Policy documents will be followed for the research projects as well.

1. The rights herein conferred shall be enforceable only by a person who is directly aggrieved and who holds a faculty or research position; no other person or persons could complain on her/his behalf.
2. If any faculty member feels aggrieved by a decision that she or he believes to violate these guidelines and rules, he or she may file a grievance according to the Statement on Faculty Grievance Procedures and its attendant standing rules.
3. For a grievance not arising out of a negative decision on appointment, reappointment, or promotion, the grievance and appeal structure shall rest on the authorities of the University.

4.5. The Requirement of Secrecy & Security

- 4.5.1. A research project or Programme may, at times, require secrecy for various reasons – either because of governmental/funding body restrictions or because of patent requirements. Therefore, PIs and every other individual who is directly or indirectly engaged in the project shall ensure secrecy of generated data during and after the project until the final technical report is submitted to the funding agencies and the data is published by the researchers in the public domain. The whole research group will ensure the safety, confidentiality, integrity, and availability (to authorized users only) of the research data. If access is required in the course of the project to confidential data, it will be up to PIs and HOI for permitting the access.

4.6. Confidentiality Clause

If an external agency – private or governmental, or any outside person or entity/group has made available to the investigator certain confidential information, provision may be made to preserve

confidentiality and/or a short delay in the publication of research results during which time the information source may examine the proposed publication to assure that the investigator has not disclosed, intentionally or unintentionally, any portion of the confidential information supplied by them.

4.7. Use of Private Papers, Documents, Diaries, or Analogous Materials

If in a research project certain private papers, deeds, documents, daily journals, diaries, e-mails, personal communications, or blogs, and similar materials have been provided to the investigator, the investigators will preserve the confidentiality of those materials to protect the privacy of the supplier of information or the author, or her/his inheritors.

4.8. Review of General Principles

The General Policies shall be reviewed by the University Research Committee annually based on the experiences gained from the projects and Programme undertaken. A proposal to that effect could be made by the PIs/HODs/Deans, provided the proposed changes are widely announced by the proposer to all faculty, PIs by e-mail, inviting suggestions on specific issues. Approved changes, if any will be added by notification, and in the newer drafts of the University Research Policy documents.

5. Authorship & Related Issues

- 5.1. In normal instances, the PI/Guide will decide on the sequences of names in any research publication arising out of project works/Ph.D. works. The authorship rights and responsibilities of faculty, staff, and students are a matter to be resolved within the group by the PI/Guide.
- 5.2. Under a large lab or facility, where there is a Director of the Laboratory, and also smaller research clusters exist who produced exciting ideas, products, research papers, the allocation of credit and responsibility shall be decided based on contribution in the work. In some disciplines, where Graduate or Post Graduate students publish their research results, the name of the faculty members and lab personnel who closely supervised the work may be added. It won't be necessary to include the names of all members of the lab or department / institute when they are not contributors to the work.
- 5.3. At times, increased administrative burdens on the designated principal investigators may also contribute to decreasing time available for active participation in research. In such cases, the PIs/Guides are expected to decide on the allocation of credit ethically so as not to make it complex. It is realized that the customs prevailing in different fields may show differences in this

respect.

- 5.4. In cases where complaints and disagreements arise between students (postdoctoral, graduate, and undergraduate) and their faculty over credit for work to which both may have contributed, the concerned researchers may decide at their level. In doubt or dispute, the University Research Committee could guide concerning credit for scholarly work where many research staff and faculty are involved with or under a PI. This is only when it becomes difficult to determine the responsibility of authorship.
- 5.5. It must also be pointed out that there is a tight coupling between authorship and responsibility. If the name of a faculty member has been included on a paper resulting from the relatively independent experiments done by a student or fellow, any error in the data or wrong methodology of data collection or accessing would also be the responsibility of the concerned faculty.
- 5.6. Lastly, multi-investigator research teams differ significantly from the individual faculty/graduate student research teams, and it may also be the case that at times, there is no single person who understands the entire gamut of a given research. The general principle for scholarly manuscripts emanating from multi-investigator research is as follows: First, the Principal investigators and senior faculty have special responsibilities to assure the overall cohesiveness and validity of the concerned draft publication. Secondly, all authors in a group effort have a shared responsibility for the published result and should have the opportunity to review all sample preparation procedures and data, as well as all data acquisition and analysis procedures. Thirdly, each author in a group should have access to the manuscript before its being submitted for publication and should agree to his or her inclusion as a coauthor. All the participants in the Programme should know that the paper is being prepared for publication.

6. Research Misconduct

- 6.1. The provisions under this heading – namely, ‘Research Misconduct’ deal with the procedures to be followed in the event of Allegations, Counter-Allegations, Investigations, and Reporting of any actual or perceived misconduct, for which the required notifications to the funding agencies may also have to be sent. There is no doubt that each member of the University, whether faculty or administrator or research staff or technical personnel and students, has a responsibility to foster an academic environment conducive to free and fair research. Therefore, research misconduct can be extremely troubling – even if it is raised in frequently.

- 6.2. BU definition of research misconduct, and procedures for investigating and reporting allegations of misconduct, will conform to the regulations of the governmental and other funding agencies which may have some elaborate policies on this subject. These will apply to the research proposed as well as to the research conducted or reported. "**Research misconduct**" is defined as fabrication (making up data or results, and recording or reporting them), falsification (manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented), or plagiarism (appropriation of another person's ideas, processes, results, or words without giving appropriate credit) in proposing, performing, or reviewing research, or in reporting research results. Even instances of failure to supervise adequately and other lapses from professional conduct or neglect of academic duties could come under its purview.
- 6.3. If the misconduct is committed intentionally, or knowingly, and if the allegation is proven by the University Research Committee or any of its sub-committees set up to look into such allegations, the HOI may take appropriate action against the culprit(s) after a proper inquiry of the cases.

7. Retention of and Access to Research Data

- 7.1. It will be ensured by the PIs/Supervisors that research data is appropriately recorded, archived for a reasonable period, and available for review under the appropriate circumstances. This is because accurate and appropriate records are an essential component of any research project.
- 7.2. Both the University and the PIs will have responsibilities and rights concerning access to, use of, and maintenance of original research data, except where precluded by the specific terms of sponsorship or other agreements. The tangible research property, including the scientific data and other records of the research conducted under the auspices of BU, belongs to this University.
- 7.3. The PIs shall be responsible for the maintenance and retention of research data that may be necessary for the reconstruction and evaluation of reported results of research and the events and processes leading to those results. It is the responsibility of the PIs to determine what needs to be retained under this policy.
- 7.4. For all projects, the PIs should adopt an orderly system of data organization and should communicate to all members of a research group and the appropriate administrative personnel as a matter of research protocol.
- 7.5. Research data must be archived for a minimum of three years after the final project close-out, with original data retained wherever possible at least in the Cloud Servers. In addition, Data may have to be kept for as long as may be necessary to protect any intellectual property resulting

from the work.

- 7.6. To avoid any possible allegations of scientific misconduct or conflict of interest, data must be retained until such issues are fully resolved.
- 7.7. Wherever students are involved, data must be retained at least until the degree is awarded or until it is clear that the students have abandoned the work. Beyond this usual period of retention, as specified, the destruction of the research record is at the discretion of the PIs/Supervisors or his / her department / laboratory.
- 7.8. Wherever research is funded by an agency outside the BU which may have or which impose certain specific provision(s) regarding ownership, retention of, and access to technical data, the provision(s) of that agreement will supersede this policy. Otherwise, the scientific record for projects conducted at the BU and/or with University resources is its resource.
- 7.9. Further, when individuals involved in research projects at BU join other universities or institutions, they may be allowed by the PIs to take copies of research data for projects on which they have worked but not necessarily all data or associated records. All such requests have to be approved by the Vice-Chancellor.
- 7.10. If a PI leaves BU, and a project is to be moved to another institution as per the agreement with the funding agency, ownership of the data may be transferred with the approval of the Vice-Chancellor, based on a written request and agreement with the PI's new institution. The new institution would guarantee acceptance of custody of the data so transferred, and grant access to other BU faculty in the future to the same.

8. Human Subjects and Scientific Research

- 8.1. This section elaborates on the policy to give comprehensive information about the organization and focus of the human subject-based research protection Programme at the BU. In these matters, the PIs and the University have to comply with the applicable laws of the land. All members of the BU who may like to be involved in any research – in sciences or social science/humanities involving human subjects must be knowledgeable about these laws and their requirements. The primary responsibility in this respect lies with the PIs/Supervisors so that there is an institutional system to protect human subjects.
- 8.2. The URC or the Executive Committees of the URC should perform a prospective and continuing review of each research protocol involving human subjects, including an evaluation of its risks and benefits to the human subjects. They must also check on the informed consent document, particularly as to its description of the risks and benefits as well as consider any unanticipated problems, possible non-compliance, and other information and incidents that might affect this

research protocol. From time to time, the concerned Deans may also organize training for all investigators, research staff, students in the laws and provisions of the use of human subjects in research.

- 8.3. Anyone who knows that, or has reason to believe that human research is being conducted in an unethical manner or not in compliance with the laws must report the matter promptly to the BU administration for necessary action.
- 8.4. There is several laws governing clinical research in India. These include the following, and BU would like all PIs to adhere to these laws and regulations:
 - 8.4.1. Drugs and Cosmetics Act - 1940
 - 8.4.2. Medical Council of India Act - 1956 (amended in 2002)
 - 8.4.3. Central Council for Indian Medicine Act - 1970
 - 8.4.4. Guidelines for Exchange of Biological Material (MOH order, 1997)
 - 8.4.5. The Biomedical Research on Human Subjects (regulation, control, and safeguards) Bill – 2005.

9. Women as Subjects in Research

- 9.1 The participation of women with child-bearing potential in research trials shall be governed as per the guidelines created by different wings of the Government of India dealing with the Women and Child Welfare Ministry as well as by the National Women's Commission.
- 9.2 It is expected that experimental subjects will be informed about potential risks to their fertility including the development of any abnormalities or abnormalities in the function of reproductive organs as a consequence of the proposed study.
- 9.3 The general policy in this respect would be as follows: "No pregnant woman may be involved as a subject in a human clinical research project unless (1) the purpose of the research is to meet the health needs of the mother and the fetus will be placed at risk only to the minimum extent necessary to meet such needs, or (2) the risk to the fetus is minimal. Research involving the use of pregnant women as subjects may be conducted only if the mother and father are legally competent and have given their informed consent after having been fully informed regarding possible impact on the fetus, except that the father's informed consent need not be secured if (1) the purpose of the research is to meet the health needs of the mother; (2) his identity or whereabouts cannot reasonably be ascertained; (3) he is not reasonably available; or (4) the pregnancy resulted from rape."

- 9.4 Before initiating the clinical trials based studies, the PIs/Supervisor should register at the Clinical Trial Registry of India (CTRI), the initiative of ICMR, supported by the Department of Science and Technology (DST) Govt. of India and the World Health Organization (WHO). Though the registration of clinical trials is only voluntary and not mandatory at present but BU encourages all PIs to follow the WHO norm.
- 9.5 Pilot Studies and other Cultural and Sociological Studies such as Oral History data gathering may not undergo such strict compliances because it is not generally thought to be a systematic investigation designed to contribute to generalizable knowledge beyond the individual being interviewed. However, when using oral history as a technique in human subject research it may require consent and following certain ethical principles.

10. Animals as Laboratory Subjects

The use of animals as laboratory subjects shall be as per the guidelines issued by the UGC, PCI, and other regulatory bodies of Govt. of India in this regard.

11. Environmental Health and Safety

- 11.1. The University Research Committee on Health and Safety is charged with the responsibility of exercising oversight overall health and safety Programme at the BU and ensuring that adequate health and safety measures have been taken in designing and executing scientific and technological experiments.
- 11.2. If required, URC will also recommend needs, priorities, and strategies to promote good health, safety, and environmental practices on Campus. The URC will also encourage workshops and awareness programmes to make all concerned understand the value of operational responsibility for health and safety.
- 11.3. Each year, one meeting of the URC could be publicized and open to all members of the University community and its residents to point out any measures that would enhance the environmental health and safety of the Campus. In particular, nothing should be done which could affect the health and safety of lab personnel, laboratory subjects, employees, students, the general public, and the environment.
- 11.4. This also applies to potential hazards of chemicals to which the students, staff, Campus residents and visitors may come in contact in the workplace or laboratory. The URC may also issue a Chemical Hygiene Plan (CHP) for the procedures, equipment, personal protective equipment, and work practices so that the laboratory personnel could be protected from potential health hazards of using certain chemicals and radio-active systems in the laboratory.

12. **Export, Re-Export & Deemed Export Controls**

"Export"- It is to send or take controlled tangible items, software, or information out of the country in any manner including in hand luggage, to transfer ownership or control of controlled tangible items, software, or information to a foreign person, or to disclose information about controlled items, software or information to a foreign government or foreign person. Such tangible items, software, or information being sent or taken out are referred to as exports.

"Re-export"-It is an actual shipment or transmission of controlled tangible items, software, or information from one foreign country to another foreign country.

"Deemed export"- is a situation where a foreign national on our Campus may be exposed to, or have access in any manner to, an export-controlled item or export-controlled software or information.

12.1. In BU, all transactions involving proprietary or confidential export-controlled information provided to BU Researchers or research groups by third parties such as corporate vendors, subcontractors, or Government collaborators which may generate disclosure restrictions be accepted only if they fall within the narrow exceptions provided by the Openness in Research Policy and qualify for treatment under an exemption or license exception (EAR) in the Indian export control regulations.

12.2. In the case of international shipments of tangible items, or the export or deemed export of 3rd party export-controlled software code or information to foreign countries or their nationals, BU and the concerned PI has the responsibility to either obtain an export license or show that an exception applies to export licensing requirements in the given case(s).

13. **Degree-Oriented Research**

A separate Doctoral Research Policy/Ph.D. ordinance of the University exists for the same.

14. **MoUs for Research Collaborations**

A separate Policy Document exists that would cover such MoMs or MoUs which BU enters into for collaborative research programmes.

15. **Financial Responsibilities for Sponsored Research**

All PIs should be well-versed in the GFR (General Financial Rules) of the Government of India offices and the standard financial practices including accounting procedures based on which they would be required to deal with the Finance & Accounts Office of BU to conduct research works. Wherever required specific approval on file/e-mail must be obtained from the University administration.



Smt Anandiben Patel
Hon'ble Chancellor & Governor
of Uttar Pradesh



Yogi Aditya Nath Ji
Hon'ble Chief Minister UP Govt.



Estd. 1975



Shri Yogendra Upadhyay
Higher Education Minister
of Uttar Pradesh



Smt. Rajni Tiwari
State Higher Education Minister
of Uttar Pradesh



Prof. Mukesh Pandey
Vice-Chancellor

BUNDELKHAND UNIVERSITY, JHANSI (U.P.)

● B++ NAAC Accredited, NIRF Ranked, ISO Certified ● Ranked as Number 1 University in U.P.

N.E.P.-2020 Applied on courses as per Uttar Pradesh Government orders

Science Faculty

B.Sc. Courses for Campus Only:- Maths Group (PCM) – (DA), Biology Group (ZCB) – (DA)
(Hons.) Courses : Biochemistry** – (DA), Biotechnology** – (DA), Microbiology** – (DA), Forensic Science – (DA), Geology – (DA), Biomedical Science – (DA), Food Technology** – (DA), Maths Statistics & Computer Science. – (DA), Environmental Science - (DA), B.C.A. (Bachelor of Computer Applications) – (DA)
P.G.D.F.S. (Post Graduate Diploma in Forensic Sc. – (DA), Home Science (DA)
Advance Diploma in Data Science - (DA)
Advance P.G. Diploma in Microbiology and Food Technology - (DA)
P.G.D.E.M.: (Post Graduate Diploma in Environmental Management) – (DA)
M.Sc Courses:- Mathematics** - (ET), Statistics - (DA), Food Technology** - (ET), Biochemistry - (DA), Biotechnology - (DA), Microbiology- (DA), Biomedical Science- (DA), Physics** - (ET), Electronics - (DA), Chemistry** - (ET), Botany** - (ET), Zoology** - (ET), Forensic Science, - (ET), Environmental Science - (DA), Ayurveda & Alternate Medicine- (DA), Geology – (DA), Home Science (Food & Nutrition) – (DA), Home Science (H D.F.S.) – (DA), Life Science - (DA)

Agricultural Faculty

B.Sc. (AG.) Hons. Course : B.Sc. Agriculture Science** – (ET)
M.Sc. (Ag) Courses: Agro Forestry – (ET), Horticulture – (ET), Plant Pathology** – (ET), Entomology** – (ET), Genetics & Plant Breeding** – (ET), Agricultural Extension – (ET), Seed Technology – (ET), Agronomy** – (ET), Soil Science & Agricultural Chemistry** – (ET), Animal Husbandary & Dairying* – (ET), Agricultural Economics** – (ET)

Medical Faculty

D. Pharm. - (ET),
M. Pharm. (Pharmaceutics) - (ET), **M. Pharm.** (Pharmacognosy) – (ET), **B.P.T.** (Bachelor of Physiotherapy) – (ET)
B.Sc. - M.L.T.™ (Bachelor of Science in Medical Laboratory Technology) – (DA) (Approved by the UP Government and UP State Medical Faculty)™

Architecture Faculty

B-Des (Interior Design) - (DA)

Art Faculty

B.A.: Courses for Campus Only
B.A.: Mass Communication and Journalism** – (DA)
B.F.A. : Drawing & Painting – (DA) Commercial Arts – (DA)
B.A. (Hons.) Courses: Hindi – (DA), Social Work – (DA), English – (DA), Education – (DA), Economics – (DA)
B.Lib. & I.Sc. ** – (DA)
B.P.E.S.: (Bachelor in Physical Education & Sports) – (DA)
B.P.Ed. – (ET)
M.P.E.S. (Master in Physical Education & Sports) – (DA)
P.G.D.E.M.: (Post Graduate Diploma in Electronic Media) – (DA)
M.A. Courses: Hindi – (DA), Home Science – (DA), Education – (DA), English – (DA), Drawing & Painting, – (DA), Mass Communication & Journalism – (DA),
M.Lib & Information Science – (DA)**
M.F.A. (Master of Fine Arts in painting). – (DA)
M.F.A. (Master in Fine arts in applied art) – (DA)
M.A. Applied Economics (Master of Arts in Applied Economics) – (DA)
MBA Business Economics (Master of Business Administration in Business Economics) – (ET)
M.S.W. (Master of Social Work) – (DA)

Commerce Faculty

MBA Banking & Insurance (Master of Business Administration in Banking & Insurance) – (ET), **B.B.A. (HONS.)** – (ET), **B.Com. (HONS.)** – (ET), **B.B.A. (Tourism)** – (DA), **M.Com (Finance)** – (DA)

Education Faculty

M.Ed. - (ET),**
B.Ed.# (Bachelor of Education)
B.El.Ed.* (Bachelor of Elementary Education) – (ET)
ET - Entrance Test
DA - Direct Admission through Merit

Law Faculty

B.A.L.L.B** (Integrated) – (ET)
LL.B** – (ET)
L.L.M.** – (ET)
*** Only in Affiliated Colleges**
**** Also in Affiliated Colleges**
Through state level Entrance Examination Only

Ph.D. Programme in 44 Subjects



Wasi Mohammad
Finance Officer



Vinay Kumar Singh
Registrar



Raj Bahadur
Controller of Examinations

Technical & Management Courses

Architecture: B.Arch. (Bachelor of Architecture),
Pharmacy: B.Pharm.
Engineering: B.Tech. (Computer Science, Electronics & Comm., Bio-Tech)

M.B.A. - (ET), M.B.A. (International Business) - (ET), **M.B.A.** (Tourism) - (ET), **M.B.A.** (Financial Management) - (ET), **M.C.A. - (ET), B.Tech.** (Food Engg. Technology) - (ET), **B.Tech.** (Electronics & Instrumentation) – (ET), **B.Tech.** (Bio-Medical) – (ET), **B.Tech.** (Mechanical Engg.) – (ET), **Integrated - B.H.M.C.T. - M.H.M.C.T. - (Bachelor/Master in Hotel Management & Catering Tech.) - (ET)**

Admission on 100% seats through A.K.T.U.
Counselling (JEE MAINS, C.U.E.T., N.A.T.A. TEST)

Admission on 50% seats through BU Entrance Test
and on 50% seats through A.K.T.U. Counselling

Territorial Jurisdiction of Bundelkhand University



Type of College	Total	Accredited
Government Colleges	23	6 (4 in process)
Aided Colleges	13	7 (2 in process)
Self Finance Colleges	331	21 (10 in process)



Bundelkhand University

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