



BATANGAS STATE UNIVERSITY

The National Engineering University

BATSTATEU POLICY ON ACADEMIC FREEDOM AND RESEARCH

The BatStateU Research Manual (2023) emphasizes the importance of academic freedom and research within a framework that promotes innovation, collaboration, and development among faculty and students. Faculty members are encouraged to pursue impactful research in fields such as engineering, technology, and sustainable development, with clear pathways to translate their work into practical applications and commercial products.

The university supports projects aligned with a strategic agenda focused on Agriculture, Natural Resources, Disaster Risk Management, Health, Industry, Energy, and Emerging Technology, promoting both academic freedom and interdisciplinary collaboration. To incentivize faculty research, the university offers reduced teaching loads, honoraria, and financial support for publishing findings while allowing researchers to retain intellectual property rights. This approach encourages the commercialization of research and potential royalty income, reinforcing the principles of academic freedom in practical applications.

Additionally, BatStateU invests in enhancing faculty capabilities through professional development and access to advanced research facilities, empowering them to conduct independent research. The manual also promotes multidisciplinary collaboration within the university and with external partners, fostering a vibrant research ecosystem that aligns with broader academic and societal goals. Overall, it serves as a comprehensive guide for cultivating a strong research culture at BatStateU while supporting faculty autonomy and sustainable impact.

Source: University Student Council



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**Batangas State University,
The National Engineering
University**

Research Manual

Revised 2023

Source: University Student Council

Source: BatStateU Research Manual

***Leading Innovations, Transforming Lives
Building the Nation***



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Greetings from the Batangas State University, The National Engineering University!

Attuned to the mandate of the University as The National Engineering University, it is our vision to create a culture that fosters a high level of interest among our faculty and student researchers in conducting high-impact researches that contribute to our stakeholders' scientific, technological, and sustainable economic development. Acknowledging our purposeful mandates, Batangas State University shall serve as a research university in engineering and related field of specialization by conducting basic and applied research and development, promoting research collaboration with various colleges and universities in the country, and contributing to the dissemination and application of knowledge.

Further, as The National Engineering University, we shall intensify scientific, innovative, and technological high-impact research, startups and spinoffs and technology transfer of products and services in specific areas such as electronic systems, environment, information and computing technology, material science and testing, and advanced manufacturing through the established research centers under the Science, Technology, Engineering and Environment Research (STEER) Hub, recognized by the Regional Development Council as the Center for Science, Technology, Engineering and Environment Research in the region.

Spearheaded by the University Research and Development Office, the BatStateU Research Manual was revised to provide guidance, leadership, and direction to all members of the BatStateU community as well as its stakeholders. The revision of the Research Manual includes strengthening support and incentives to increase research productivity, fostering innovation through the established niche research centers, and introducing governance mechanism to increase efficiency in the approval, implementation and monitoring of research.

Let us continue to work towards our vision of becoming a premier national university that develops leaders in the global knowledge economy through the pursuit of research and innovation.

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RATIONALE

Batangas State University, The National Engineering University, is a premier provider of higher and advanced learning and serves as the country's model higher education institution recognized by the Commission on Higher Education (CHED). The University is gearing up towards achieving its vision of becoming a premier national university that develops leaders in the global knowledge economy.

The declaration of Batangas State University as the National Engineering University, as mandated by Republic Act 11694, shall serve as a research university in engineering and other related fields of specialization by conducting basic and applied research and development, promoting research collaboration with various colleges and universities in the country, and contributing to the dissemination and application of knowledge. With this mandate, The BatStateU Research Manual provides directions in the conceptualization, planning, development, implementation, documentation, and dissemination of research in the University.

As a National Engineering University, BatStateU is mandated to intensify scientific, innovative, and technological research and development that would lead to the development of high-impact research, startups, and spinoffs, and technology transfer of products and services in specific areas such as electronic systems, environment, information and computing technology, material science and testing, and advanced manufacturing through the established research centers.

The University has the prime responsibility of building a research culture nurturing a high degree of interest among its faculty and student researchers in conducting high-impact research projects that would contribute to the scientific, technological, and sustainable economic development of its stakeholders. Its main focus is to address problems of the community, the society, and the industry through collaborative research. The University recognizes the importance of sustainable development goals through research and innovation.

The BatStateU Research Manual of the Batangas State University, The National Engineering University provides an overview of the university's research policies and procedures, as well as guidelines for conducting research and fostering innovation through S&T initiatives within the university. The manual is expected to provide us with the strategic directions and framework for the conduct of research activities at the University.

Moreover, it provides an introduction to the operations of various research centers and state-of-the-art research facilities that are available to faculty, staff, students, and other stakeholders. The manual also outlines the resources and support that are available to researchers, including information on funding opportunities for research, as well as information on how to apply for funding and how to manage a funded research project. Also, the manual provides guidance on how to produce quality and excellent research and other scholarly works that adhere to ethical standards and scientific soundness. It may also include information on intellectual property rights, including guidelines for patenting and commercializing research outputs.

In summary, the BatStateU Research Manual serves as a comprehensive guide for the research community of the University, providing guidance on all aspects of conducting research within the University including research implementation, innovation, networking and collaboration, sustainable development, and establishment of research niche centers.

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I. RESEARCH FRAMEWORK

1.1 Research Mandates as The National Engineering University

As mandated by Republic Act 11694, the Batangas State University as the National Engineering University shall:

1.1.1 Serves as a research university in engineering and other related fields of specialization by conducting basic and applied research and development, promoting research collaboration with various colleges and universities in the country, and contributing to the dissemination and application of knowledge.

1.1.2 Create, develop, and implement a functional research program that is relevant to the research agenda of the University and supports research programs for sustainable development

1.1.3 Intensify scientific, innovative, and technological research and development that would lead to the development of high-impact research, startups, and spinoffs, and technology transfer of products and services in specific areas such as electronic systems, environment, information and computing technology, material science and testing, and advanced manufacturing through the established research centers under the Science, Technology, Engineering, and Environment Research (STEER) Hub, recognized by the Regional Development Council (RDC) as the Center for Science, Technology, Engineering, and Environment Research in the CALABARZON Region

1.1.4 Lead in the protection, conservation, and strategic management of the Verde Island Passage (VIP) that lies between the islands of Luzon and Mindoro, and is described as the "center of the center of marine shore fish biodiversity in the world" by developing biodiversity experts, conducting collaborative research, marine exploration, community education, and training, and establishment of the Verde Island Passage (VIP) for Oceanographic Research and Aquatic Life Sciences (VIP CORALS) by the Regional Development Council-Region IV-A (Cavite, Laguna, Batangas, Rizal, and Quezon Region) as the National Center for marine Biodiversity in VIP.

1.2 Objectives

1.2.1 Provide faculty and students with assistance and support in creating an environment that is conducive to innovation, which will eventually create avenues for high-impact research, technology transfer, and commercialization of their research.

1.2.2 Ensure effective dissemination and application of research output through oral and/or poster presentations and publications in refereed journals, and when appropriate, research output commercialization to foster innovative and creative research-based solutions thinking among faculty, students, and stakeholders.

1.2.3 Develop a culture of research among faculty, students, and stakeholders by involving them in research activities through multidisciplinary and collaborative research, seminar workshops, training, research fora, research assistantships, and other research interactions and engagement.



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1.2.4 Strengthen research consortia, linkages, collaborative research, mentorship, and research skills development to augment research funding of the University.

1.2.5 Optimize the utilization of research outputs for technology transfer and possible income-generating projects related to research and development and strengthen product development and technology business incubation.

1.2.6 Strengthen industry-related research projects to address the gaps and challenges faced by its stakeholders.

1.2.7 Contribute to national economic growth, jobs creation, domestic and foreign investment, and community well-being through the university-based Knowledge, Innovation and Science Technology (KIST) Park, it also aims to promote industrial R&D, attract foreign investments in higher value-added activities, and accelerate the country's transition from a labor-intensive economy to a knowledge-intensive one designated as a Special Economic Zone by virtue of Presidential Proclamation No. 947, dated May 22, 2020.

1.2.8 Deliver quality, high-impact research and increase the productivity of the university in terms of capacitating its people, and producing publications and Intellectual Property (IP) assets. Generate high-impact research outputs for the utilization of the educational, communal, and industrial sectors.

1.2.9 Lead in the pioneering initiatives of establishing a technopreneurship program and a university-based Special Economic Zone (SEZ) that aims to promote industry-academe collaboration through active research and innovation.

1.2.10 Develop quality research projects on the following key areas: Agriculture, Aquatic and Natural Resources Research (AANRR); Disaster Risk Management and Health (DRMHR); Industry, Energy, and Emerging Technology (IEETR); and Integrated Basic and Applied Research (IBAR).

1.2.11 Enhance the research capabilities of the faculty and student researchers through human and physical resource development and the creation of an environment that fosters research.

1.3 Research Agenda

The BatStateU The NEU Research Agenda are anchored to the Harmonized National Research & Development Agenda focusing on the following areas: Agriculture, Aquatic and Natural Resources Research (AANRR); Disaster Risk Management and Health Research (DRMHR); Industry, Energy and Emerging Technology Research (IEETR); and Integrated Basic and Applied Research (IBAR).

1.4 Strategies of Implementation

1.4.1 Networking and Collaboration

Develop a networking system among the colleges that will facilitate planning, packaging of research proposals, implementation and monitoring, evaluation, documentation, dissemination, utilization, and commercialization of research outputs.

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