

## Promotion of Research

MMC is dedicated to fostering a research culture among faculty and students by inculcating research practices and promoting interdisciplinary studies. To encourage hands-on learning, undergraduate and postgraduate students are assigned minor research projects under the guidance of their respective department faculty members as supervisors. These projects culminate in a yearly PowerPoint presentation, where selected projects are published in the college's peer-reviewed journal "Jigyasa"(ISSN.no.2279- 055.)

The institution supports research through a well-developed infrastructure, offering online and offline resources. Facilities such as the library, research laboratories, computer lab, reading room, and ICT-enabled classrooms enhance research output, benefiting the academic growth of both teachers and students.

Every Department has an offline subscription (Annual, three-year, lifetime) to one renowned journal of the related subject, with a frequency of Weekly, Quarterly, or half-yearly.

Dr. Namita Kumari, Department of Botany has received "**Bharat Shiksha Ratan Award** "from**International Benevolent Research Foundation, Kolkata** for imparting a significant contribution in the field of research.

The College has signed an MOU with the International Benevolent Research Foundation (IBRF) Kolkata to cooperate in Academic Exchange, Programme Development, and Research.

MMC subscribes to the N-LIST (National Library and Information Services Infrastructure for Scholarly Content) platform under INFLIBNET, granting access to an extensive collection of academic resources, including Springer e-books, Sage Publications, Indian Journals, Cambridge University Press materials, JSTOR, and ISID databases.

Additionally, the college adheres strictly to plagiarism guidelines for all academic and research outputs, ensuring integrity in scholarly contributions. International and National conferences, workshops, seminars and awareness drives are organized regularly, providing a platform for academicians to discuss emerging research trends and offering valuable networking opportunities for faculty and students.

## 2. Sustainability Initiatives

**Sustainable development** is meeting the needs of the present without compromising the ability of future generations. To achieve this goal MMC

endeavours socially, economically and culturally for Ecological protection. The Department of Botany has taken a significant step towards sustainability by establishing a solid waste management pit on campus under the supervision of Dr. Surendra Kr. Prasad, Associate Professor, Department of Botany. This initiative transforms organic waste, including plant leaves and food residues from the hostel mess, into nutrient-rich bio-manure. The manure is distributed to faculty and staff at a nominal cost, with the proceeds reinvested in purchasing vermin culture supplies and plants. In 2023-24, approximately 20 kg of manure has been produced and distributed, contributing to effective waste utilization and promoting eco-friendly practices.

To further advance sustainability, MMC has installed a 100 KWP solar power plant across the campus including the main building's rooftop and hostel (Mahima). This installation has significantly reduced electricity bills by nearly 40%. Additionally, the college has replaced traditional lighting systems with energy-efficient CFL and LED lamps, which consume 80-90% less energy and have a longer lifespan. Staff and students are encouraged to conserve energy by switching off lights and fans when not in use.

The Faculties of colleges show their sensitisation and responsibilities towards sustainable development by publishing their academic paper in prestigious journals periodically and Presenting research papers in National and International seminars.

Dr Amrita, Department of Chemistry, received the Best Oral Presentation Award at the International Conference on "Technological Innovations for Climate Change Mitigation and Global Warming."

The college has conducted an International conference "5<sup>th</sup> World Clean Environment Summit and the International Conference on "Technological Innovation for Climate Change Mitigation and Global Warming on 12<sup>th</sup>-14<sup>th</sup> December 2023"

A National seminar on "**Trends in Green Chemistry and Sustainable Development**" (TGCS-2024) was organized by the Department of Chemistry, in collaboration with IQAC, Magadh Mahila College and the Indian Science Congress Association, Patna. It was attended by more than 200 students and 100 research scholars. various types of papers focusing on sustainable development were presented during this event.

The college has also adopted an Environmental Policy that aims to achieve sustainable development goals. This policy emphasises the collective

responsibility of teachers, staff, and students to adhere to eco-friendly practices, ensuring a greener and more sustainable campus environment.

Community Visits, Plantation Drives, and Swaccha Bharat Abhiyan Cleanliness programmes are periodically organised under the banner of the NCC unit, NSS unit, and ECO club of Magadh Mahila College. Faculty members and students participate with full enthusiasm.