



MADURAI KAMARAJ UNIVERSITY

(University with Potential for Excellence)

(Re-accredited by NAAC with 'A++' Grade in the 4th Cycle)

MADURAI-625021, TAMILNADU



RUSA- Skill Course on "Molecular Enzymatic Defence Mechanisms Against Xenobiotic Induction"

09th-11th September, 2026

ELIGIBILITY

Applications are invited from postgraduate students, research scholars enrolled in Life Sciences and faculty members at recognized Indian universities, colleges, and research institutions for a three-day Skill Development Course titled "**Enzyme-Based Defense Against Xenobiotics.**" The course is scheduled to be conducted from 9th to 11th September 2026.

APPLICATION AND SELECTION PROCEDURE

Interested candidates are requested to submit the 'Registration Form' via the given link on or before 1st September, 2026. No registration fee is required. The candidates will be selected based on the qualification and research interests. The selected candidates will be informed through e-mail on **5th September, 2026**. No TA/DA will be provided for attending the skill course. Accommodation will be arranged in the NRCBS Hostel for participants who submit a prior request and pay the applicable accommodation fee.

ABOUT MADURAI KAMARAJ UNIVERSITY

Madurai Kamaraj University (MKU) stands as a distinguished fortress of higher education and pioneering research, deeply rooted in a legacy of academic excellence. Established in 1965 as Madurai University and subsequently renamed in 1978 to honor the visionary statesman Karamveer K. Kamaraj, the institution has relentlessly pushed the boundaries of multi-disciplinary learning. Today, as a premier University recognized for its Global Standards, MKU comprises 20 specialized Schools encompassing 77 diverse Departments - ranging from Advanced Sciences to Humanities - all dedicated to nurturing world-class talent, fostering impactful research, and empowering generations to compete on an international stage.

ABOUT SCHOOL OF BIOLOGICAL SCIENCES

School of Biological Sciences (SBS) at Madurai Kamaraj University stands as a premier School with a rich legacy of Academic Excellence and Pioneering Research. Established in 1967 by the visionary Prof. S. Krishnaswamy as the country's first integrated Department of Biology, and later elevated to a School in 1977, SBS has consistently pushed the boundaries of life sciences. Comprising eight Departments-ranging from Immunology and Genetics to Molecular Biology and Microbial Technology - the SBS is dedicated to fostering world-class scientific research, nurturing young talent, and advancing frontier knowledge to compete on an international stage. The SBS hosted several prestigious national initiatives, including the UGC Centre for Excellence in Genomic Sciences, the DBT-Interdisciplinary Program in Life Science, and the DST-FIST programs. It has also provided training and mentoring support to researchers nationwide through the UGC-Networking Resource Center in Biological Sciences (UGC-NRCBS) program.

ABOUT RUSA

The Rashtriya Uchchatar Shiksha Abhiyan (RUSA) - the National Higher Education Mission is a holistic, centrally sponsored scheme by the Ministry of Education, Government of India, designed to provide strategic funding and usher in transformative reforms across state universities. At Madurai Kamaraj University, RUSA(Phase-II) serves as a vital catalyst for institutional excellence under its "Research, Innovation & Quality Improvement" initiative. The MKU-RUSA actively bridges the gap between academic theory and real-world application. It empowers students with the internships and skill courses required to excel globally.

ABOUT THE SKILL

Xenobiotic detoxification is a rapidly advancing field that has transformed our understanding of how living organisms recognise, process, and neutralise foreign chemical compounds, including environmental pollutants, pharmaceuticals, and industrial toxins. Powerful bioinformatics tools have enabled comprehensive investigation of enzymatic defence mechanisms, providing critical insights into metabolic pathways, enzyme kinetics, and molecular adaptation. This Skill Course on "**Xenobiotic Detoxification: Molecular Enzymatic Defence Mechanisms Using Bioinformatics Tools**" aims to provide participants with a strong theoretical foundation and practical exposure to contemporary xenobiotic research. Training sessions will cover Phase I and Phase II detoxification enzymes, metabolic pathway mapping, molecular docking, and key Bioinformatics Tools. Upon completion, participants will acquire the knowledge and skills necessary to address Research Questions in Environmental Microbiology, Toxicology, Public Health, Agriculture, and Industrial Biotechnology.

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REGISTRATION LINK

<https://forms.gle/FB85cb7TEkyQuw677>

