



MADURAI KAMARAJ UNIVERSITY

(University with Potential for Excellence)

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

MADURAI - 625 021, TAMIL NADU



RUSA - Skill Course on “Microbial Genomics and its Applications”

10th – 12th August, 2026

Applications are invited from Post-Graduates and Research Scholars in various Disciplines of Life Sciences from Indian Universities/Colleges/Research Institutes for the forthcoming Skill Course on “Microbial Genomics and its Applications”, to be held from 10th to 12th August, 2026.

ELIGIBILITY

Applicants should be Post-Graduates and Research Scholars from various disciplines of Life Sciences from Indian Universities/Colleges/Research Institutes. Preference will be given to candidates who are working on or intend to work on microbial genomics in their research programs

APPLICATION & SELECTION PROCEDURE

Interested candidates are requested to submit the ‘Registration Form’ via the given link on or before 31st July, 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 1st August, 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 Karmaveerar 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 COURSE

Microbial Genomics is a rapidly advancing field that has transformed our understanding of microorganisms and their roles in health, agriculture, industry, and the environment. The advent of high-throughput sequencing technologies and powerful bioinformatics tools has enabled comprehensive analysis of microbial genomes, providing insights into microbial diversity, evolution, pathogenicity, antimicrobial resistance, and host-microbe interactions. These advances have opened new avenues for disease surveillance, outbreak investigation, biotechnology, vaccine development, and environmental monitoring. This Skill Course on “Microbial Genomics and its Applications” aims to provide participants with a strong theoretical foundation and practical exposure to contemporary genomic approaches used in microbiological research. Hands-on training sessions will cover key aspects of microbial genome analysis. Special emphasis will be given on handling Next-Generation Sequencing data, Genome Assembly, Annotations, Comparative Genomics, Metagenomics, Drug Discovery, and the use of various Bioinformatics Databases and Tools. Participants will gain experience in accessing data, interpreting data, developing workflows, and applying best practices in genomic research. The course will consist of Expert Lectures, Interactive Discussions, Practical Laboratory Exercises, and Bioinformatics Analyses. After completing this Skill Course, participants will acquire knowledge and skills necessary to analyze Microbial Genome data and apply Genome-based approaches to address Research Questions in Microbiology, Public Health, Agriculture and Industrial Biotechnology.

CONTACT

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REGISTRATION LINK

<https://forms.gle/d7NWY6ebq9FvEG9TA>

