

MKSSS INTERDISCIPLINARY RESEARCH CELL

(MKSSS IRC)

1. Introduction

Interdisciplinary research integrates knowledge, methodologies, tools, and perspectives from multiple disciplines to address complex issues that a single disciplinary approach cannot adequately address.

Recognizing the importance of collaborative and interdisciplinary approaches to contemporary research, MKSSS has established the **MKSSS Interdisciplinary Research Cell (MKSSS IRC)** to connect faculty, researchers, Ph.D. scholars, students, academicians, professionals, industry, experts, and society across its diverse higher education units and disciplines.

The MKSSS IRC will provide a platform for knowledge exchange, collaborative research, innovation, and meaningful engagement with industry and society. It will promote emerging areas of interdisciplinary research and encourage translating research into practical solutions, including creating and protecting **patents, copyrights, trademarks, and other intellectual property**.

A key focus of the Cell will be **society-oriented research** that responds to community needs, challenges, aspirations, and priorities, contributing to social development, sustainability, innovation, and overall societal well-being.

2. Vision

To foster a vibrant interdisciplinary research ecosystem that generates innovative, sustainable, and impactful solutions to contemporary societal challenges.

3. Mission

To facilitate interdisciplinary collaboration, knowledge exchange, innovation, and research partnerships among academia, industry, government, and society, and to translate research into meaningful societal and real-world impact.

Theme: "Bridging Disciplines, Inspiring Innovation, and Building Knowledge for Societal Impact"

4. Aim

To promote a collaborative interdisciplinary research culture that brings together diverse expertise to address emerging and contemporary challenges through innovative, practical, sustainable, and society-oriented research.

5. Objectives

The MKSSS IRC will:

1. **Promote interdisciplinary research** by integrating knowledge, methodologies, technologies, and perspectives across disciplines.
2. **Foster collaborative research** among faculty, researchers, scholars, students, industry, professionals, experts, and societal stakeholders.
3. **Identify and address emerging and contemporary challenges** through innovative, evidence-based, and application-oriented approaches.
4. **Promote society-oriented research** that responds to the needs, priorities, aspirations, and challenges of communities.
5. **Strengthen academia-industry-community linkages** to connect research with real-world needs and opportunities.
6. **Encourage innovation and intellectual property generation**, including patents, copyrights, trademarks, designs, and other forms of IP.
7. **Create opportunities for knowledge sharing and capacity building** through seminars, workshops, conferences, research forums, expert interactions, and collaborative initiatives.
8. **Support faculty, researchers, Ph.D. scholars, and students** in developing interdisciplinary research projects, publications, innovations, and funding proposals.
9. **Disseminate and translate research outcomes** for academic, professional, industrial, and societal benefit.
10. **Contribute to social development, sustainability, innovation, and societal well-being** through impactful research.

6. Scope

The MKSSS IRC will facilitate interdisciplinary and multidisciplinary research across academic disciplines, institutions, sectors, and communities. Its scope will include:

- Emerging and interdisciplinary research areas.
- Society-oriented and community-based research.
- Industry-academia and academia-community collaboration.

- Innovation, entrepreneurship, technology transfer, and intellectual property.
- Sustainability, environmental challenges, and social innovation.
- Research across sciences, technology, engineering, health, education, management, social sciences, humanities, design, and other relevant domains.
- National and international research collaborations and networks.
- Research capacity building, knowledge translation, and dissemination.
- Local, regional, national, and global challenges requiring interdisciplinary solutions.

Priority areas may be identified periodically based on societal needs, institutional strengths, emerging technologies, and collaboration opportunities.

7. Key Activities

The MKSSS IRC will undertake and facilitate:

7.1 Research and Collaboration

- Identify emerging interdisciplinary research areas and societal challenges.
- Facilitate interdisciplinary research teams and collaborative projects.
- Support development of research proposals and funding opportunities.
- Encourage collaborative publications, presentations, and research outputs.

7.2 Knowledge Sharing and Capacity Building

- Organize seminars, workshops, conferences, research colloquia, and expert interactions.
- Facilitate faculty, scholar, and student engagement in interdisciplinary research.
- Develop research networks and opportunities for national and international collaboration.

7.3 Industry and Community Engagement

- Establish partnerships with industry, government, NGOs, communities, and other stakeholders.
- Identify real-world problems for collaborative research.
- Promote field-based, need-based, and application-oriented research.

7.4 Innovation and Intellectual Property

- Encourage research leading to innovative products, processes, services, and solutions.

- Create awareness and support for intellectual property protection.
- Facilitate patents, copyrights, trademarks, designs, technology transfer, and related innovation activities.

7.5 Research Dissemination and Impact

- Disseminate research through publications, conferences, reports, digital platforms, and community engagement.
- Promote translation of research findings into practical applications.
- Document and showcase research outcomes and societal impact.

8. Expected Outcomes

The MKSSS IRC aims to achieve:

1. **A strengthened interdisciplinary research culture** across MKSSS institutions.
2. **Increased collaborative research** involving multiple disciplines and external stakeholders.
3. **Innovative and practical solutions** to contemporary societal and real-world challenges.
4. **Enhanced research outputs**, including quality publications, research proposals, presentations, and collaborative scholarly work.
5. **Increased intellectual property generation**, including patents, copyrights, trademarks, and designs.
6. **Stronger academia-industry-community partnerships** and research networks.
7. **Enhanced research capacity** among faculty, researchers, Ph.D. scholars, and students.
8. **Greater translation of research into practice**, including technologies, products, services, policies, and community interventions.
9. **Measurable societal impact** through research addressing identified community and societal needs.
10. **A sustainable research ecosystem** that promotes collaboration, innovation, critical thinking, knowledge sharing, and societal well-being.

9. Guiding Principles

The MKSSS IRC will operate on the principles of:

Interdisciplinarity • Collaboration • Innovation • Inclusivity • Research Excellence • Sustainability • Societal Relevance • Knowledge Translation • Intellectual Property • Measurable Impact.

Through these principles, the MKSSS IRC will encourage researchers to move beyond disciplinary boundaries, collaborate with diverse stakeholders, and translate knowledge into meaningful and sustainable solutions for society.