

# NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

## POLLACHI

### Research & Development Cell (RDC)

#### Introduction

The Research and Development (R & D) Cell at NGM College is the central body responsible for fostering robust research culture among faculty and students. The cell aims to transform the institution into a centre of excellence by encouraging innovative thinking, scholarly publications and industry-sponsored projects.

#### Description

The R & D cell provides the necessary infrastructure and administrative support to facilitate high-quality research. It bridges the gap between theoretical knowledge and practical application ensuring that the institution contributes meaningfully to the global research economy.

#### Objectives:

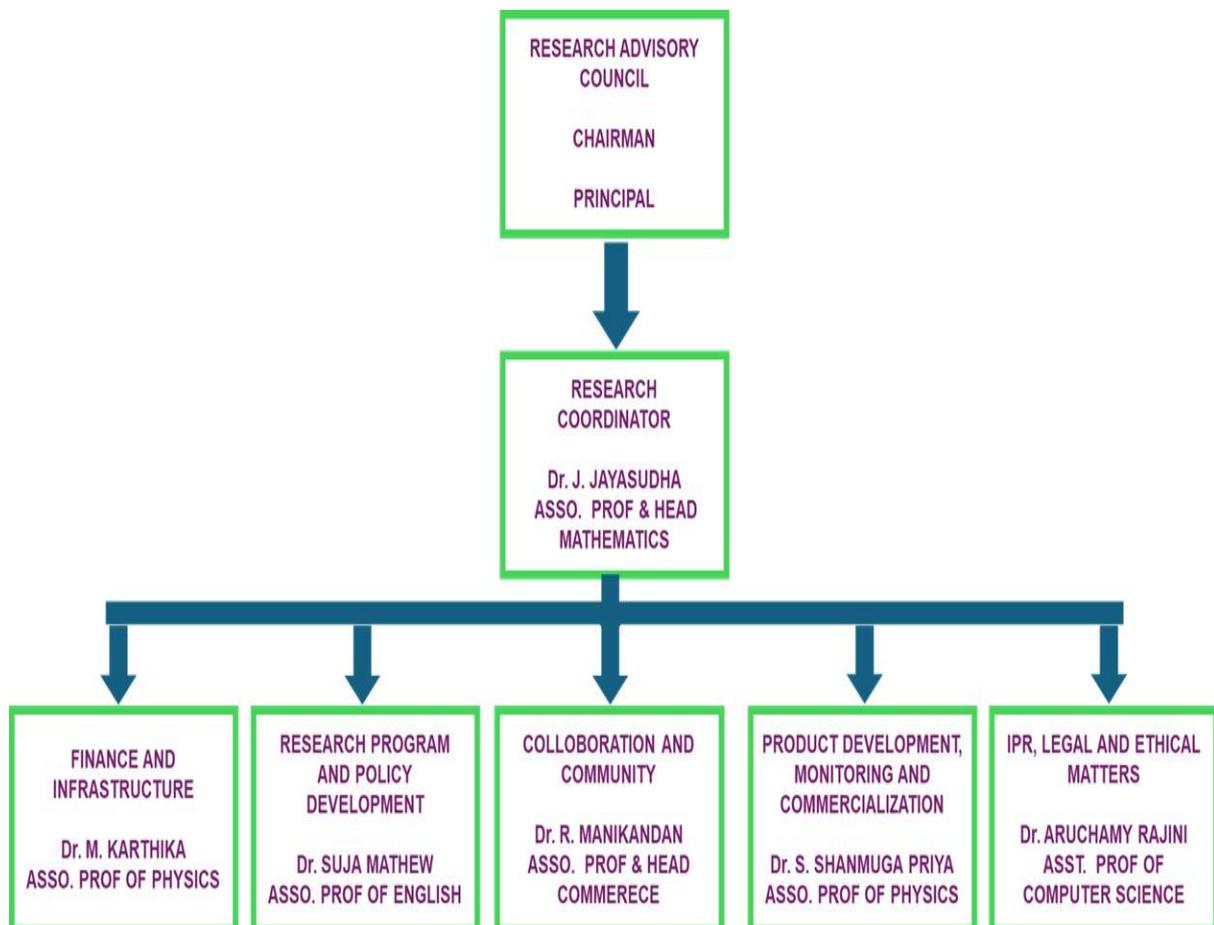
1. **To promote a strong and inclusive research culture** in the institution by encouraging faculty members, researchers, and students to undertake high-quality, interdisciplinary, and socially relevant research in alignment with national priorities.
2. **To facilitate the formulation and implementation of institutional research policies**, rules, and guidelines in accordance with UGC regulations, funding agency norms, and ethical standards.
3. **To encourage research funding and resource mobilization** by assisting faculty and researchers in identifying funding opportunities and submitting proposals to national and international funding agencies.
4. **To promote innovation, consultancy, and collaboration** through linkages with industries, research organizations, government agencies, and other academic institutions.
5. **To enhance research capacity and competence** by organizing training programs, workshops, seminars, FDPs, and mentoring initiatives on research methodology, intellectual property rights, publication ethics, and emerging research tools.
6. **To facilitate research dissemination and visibility** by encouraging publications in reputed journals, filing of patents, copyrights, and participation in conferences, seminars, and scholarly networks.
7. **To develop and maintain a research information management system** for systematic documentation, analysis, and reporting of research projects, publications, patents, and other scholarly outputs.

## Functions of the Research & Development Cell

### ◆ Administration

- Establish and maintain a clear organizational structure comprising designated committees to ensure effective planning, implementation, monitoring and evaluation of research activities in the institution.
- Formulate and enforce rules, regulations and policy frameworks governing the optimal utilization of research facilities, infrastructure and resources within the institution.
- Guide, mentor and periodically review the activities of the R&D cell by constituted committees.

### Organizational Structure:



#### ◆ **Research Promotion & Capacity Building**

- Promote a strong research culture by encouraging faculty, researchers and students to actively engage in quality research, innovation and scholarly activities.
- Provide structured guidance and mentoring support for research proposal development, project execution, publication, patent filing and technology transfer.
- Organize programs such as research methodology workshops, faculty development programs, seminars, colloquia and training on emerging research tools and techniques.
- Organize capacity building programs on academic writing, intellectual property rights, ethics, funding mechanisms and emerging research areas
- Encourage the adoption of advanced research tools, digital platforms, and innovative pedagogical practices to improve research efficiency and quality.
- Support early-career researchers and research scholars through orientation programs, mentorship schemes and periodic research progress reviews.
- Encourage high-quality publications (SCI, SCOPUS, WoS) in reputed journals, ethical research practices and adherence to institutional and national research guidelines.

#### ◆ **Research Ecosystem/Collaboration**

- Foster a vibrant and inclusive research ecosystem that promotes interdisciplinary, multidisciplinary and transdisciplinary research across the institution.
- Facilitate collaboration among faculty, researchers, students, industry, research organizations and government agencies to enhance the relevance, impact and real-world applicability of research.
- Encourage national and international research partnerships, including MoUs, joint research projects, faculty and student exchanges and shared use of research infrastructure.

#### ◆ **Information Management System**

- Establish and maintain a centralized Research Information Management System (RIMS) to support systematic collection, storage, retrieval and analysis of institutional research data.
- Ensure that the information management system captures comprehensive data related to research projects, publications, patents, grants, collaborations, research facilities and researcher profiles.
- Ensure transparent and timely access to research information for faculty, regular updating, validation, consistency and reliability of information.

#### ◆ **Human Resources**

- Ensure the development, deployment, and effective utilization of human resources to strengthen the institutional research and innovation ecosystem.
- Facilitate policies for recruitment, engagement, and retention of qualified research personnel, including faculty researchers, postdoctoral fellows, research associates, and technical support staff in accordance with institutional norms.

#### ◆ **Integrity and Ethics**

- Uphold the highest standards of research integrity, ethics, and professional conduct across all research and innovation activities of the institution.
- Ensure compliance with institutional, national, and international guidelines related to research ethics, academic honesty, plagiarism prevention, and responsible conduct of research.
- Facilitate the establishment and effective functioning of the Institutional Ethics Committee.

#### ◆ **Research Monitoring**

- Establish a structured mechanism for continuous monitoring of research activities to ensure quality, relevance, and timely completion.
- Track the progress of ongoing research projects, funded programs, research scholars, and institutional research initiatives.
- Ensure periodic review of research outcomes, including publications, patents, grants, and societal impact, in alignment with institutional and national benchmarks.
- Identify research gaps, delays, and risks, and recommend corrective measures to enhance research efficiency and impact.

**Research Contributions:**

S.No.	Year	Journal Publications SCOPUS/WoS/UGC Total	Grants/Fellows hips received (In Lakhs)	Books Published	Book Chapters Published
1	2018-2019	143	1.28	6	76
2	2019-2020	132	2.2	5	81
3	2020-2021	134	6.5	5	75
4	2021-2022	148	10.07	26	330
5	2022-2023	212	21.695	22	507
6	2023-2024	277	15.555	59	308
7	2024-2025	381	5.6	98	407