

R&D Facilities and Research Support

The **Facilities and Research Support** is an initiative of the Research and Development (R&D) Cell aimed at providing a unified platform for accessing research infrastructure, scholarly resources, publication support, research integrity services, funding opportunities, innovation support, and collaborative research facilities.

It is designed to enhance the visibility and effective utilization of institutional research resources while facilitating interdisciplinary, inter-institutional, and industry academia collaboration.

1. Research Infrastructure and Laboratory Facilities

The R&D Cell provides access to institutional research infrastructure, laboratories, specialized equipment, computing facilities, software, and other resources supporting research and innovation.

Facility / Resource	Access	Status	Details
Research Laboratories	Institutional	Available	Department-wise research laboratories and specialized facilities
Specialized Research Equipment	Institutional	Subject to availability	Research, testing and experimentation facilities
AI/ML Research Facilities	Institutional	Available	Artificial Intelligence, Machine Learning and Data Analytics research
IoT & Embedded Systems Facilities	Institutional	Available	IoT, embedded systems and prototype development
Computing / GPU Facilities	Institutional	Subject to availability	Computational research and AI/ML experimentation
Research Software & Simulation Tools	Institutional / Licensed	Subject to license	Research, modelling and simulation support
Testing & Characterization Facilities	Institutional / Collaborative	Subject to availability	Testing and research experimentation

Access: Facility access may require prior approval or online booking through the R&D Cell or respective laboratory/facility in-charge.

2. Research Databases and Digital Scholarly Resources

Researchers can use the following scholarly platforms for literature search, citation analysis, journal discovery, research evaluation, and access to academic publications.

Resource	Purpose	Access Type	Official Link
IEEE Xplore	IEEE journals, conferences, standards and technical literature	Institutional / Subscription	Access IEEE Xplore
Scopus	Abstract and citation database, research metrics and discovery	Institutional / Subscription	Access Scopus
Web of Science	Citation database, research discovery and analytics	Institutional / Subscription	Access Web of Science
ScienceDirect	Peer-reviewed journals and book chapters	Institutional / Open Access content	Access ScienceDirect
Springer Nature Link	Journals, books, articles and research protocols	Institutional / Open Access content	Access Springer Nature Link
Wiley Online Library	Journals, books and reference works	Institutional / Subscription	Access Wiley Online Library
PubMed	Biomedical and life-science literature	Free	Access PubMed
OpenAlex	Open catalogue of global scholarly research	Free	Access OpenAlex

ScienceDirect provides access to peer-reviewed literature, including open-access content, while Springer Nature Link provides access to journals, books, articles and protocols.

3. Publication and Journal Support

The R&D Cell facilitates researchers in identifying appropriate journals, verifying indexing information, understanding publication models, and selecting suitable publication venues.

3.1 Journal Discovery and Selection

Resource	Purpose	Link
Elsevier Journal Finder	Identify suitable journals based on research topic/abstract	Elsevier Journal Finder
DOAJ	Search quality open-access journals and articles	Directory of Open Access Journals (DOAJ)
Crossref	DOI and scholarly metadata verification	Crossref



OpenAlex	Discover journals, authors, institutions and research works	OpenAlex
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DOAJ provides a searchable directory of open-access journals and articles and distinguishes journals with and without publication fees.

3.2 Publication Fee / APC Support

The portal may maintain institutionally verified lists under the following categories:

- No-APC / No Publication Fee Journals
- Open-Access Journals
- APC-Based Journals
- Institutionally Supported Publication Opportunities
- Publisher-specific Open-Access Agreements
- Conference Publication Opportunities

Important: Journal APC status can change. The R&D Cell should verify the current APC, indexing status, quartile, and journal policies from the publisher's official website before publication.

3.3 Journal Verification

Researchers are encouraged to verify:

- Journal title and ISSN
- Publisher
- Current indexing status
- Scopus/Web of Science coverage
- Journal quartile
- APC/publication charges
- Peer-review policy
- Publication ethics
- Editorial information
- Predatory or misleading journal indicators

4. Research Integrity and Plagiarism Support

The R&D Cell promotes responsible research practices, academic integrity, originality, and ethical publication.

Service / Resource	Purpose	Access
Turnitin	Similarity checking and academic integrity support	Institutional
iThenticate	Research and publication integrity checking	Institutional / Subscription
Research Ethics Guidance	Responsible conduct of research	R&D Cell
Citation & Referencing Support	Correct scholarly citation practices	R&D Cell
Research Writing Support	Manuscript and thesis preparation	R&D Cell

5. Researcher Identification and Scholarly Profiles

Researchers are encouraged to maintain standardized scholarly profiles to improve research visibility and accurate attribution.

Resource	Purpose	Link
ORCID	Persistent researcher identifier	ORCID
Google Scholar	Research publication and citation profile	Google Scholar
Scopus	Abstract, citation database, author profile and research metrics	Scopus
OpenAlex	Researcher and publication discovery	OpenAlex
Crossref	DOI and publication metadata	Crossref

6. Research Funding and Grant Support

The R&D Cell facilitates dissemination of information related to research funding, sponsored projects, grants, fellowships, and calls for proposals.

Funding / Resource	Purpose	Official Link
Anusandhan National Research Foundation (ANRF)	National research funding and support	ANRF Official Website
ANRF Research Grants	Research grant schemes and calls	ANRF Research Grants
Department of Science & Technology (DST)	Science and technology funding	DST
BIRAC	Biotechnology innovation and research support	BIRAC
DBT	Biotechnology research programmes	Department of Biotechnology

CSIR	Scientific research and innovation	CSIR
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7. Innovation, Intellectual Property and Commercialization

The R&D Cell supports researchers and innovators in protecting and translating research outcomes into intellectual property and technology-based solutions.

Service / Resource	Purpose	Official Link
IP India	Patents, trademarks, designs and IPR services	IP India
Patent Public Search	Search existing patents	IP India Patent Search
IP India E-Services	Patent and IPR e-filing services	IP India E-Services
WIPO	International intellectual property resources	WIPO

8. Problem Statement Database

The R&D Cell shall maintain a centralized **Problem Statement Database** to connect real-world problems with faculty expertise, student projects, research scholars, industry requirements, and potential funding opportunities.

Proposed Categories

- Industry Problem Statements
- Societal Problems
- Community-Based Problems
- Emerging Technology Problems
- Faculty Research Problems
- Student Innovation Problems
- Government/Institutional Challenges
- Industry R&D Requirements

9. Collaborative Research Projects

The portal shall provide a centralized repository for identifying and developing collaborative research opportunities.

Collaboration Areas

- Inter-departmental research
- Inter-institutional research
- Industry–academia collaboration
- Joint research proposals



- Sponsored research projects
- Consultancy projects
- Joint publications
- Joint patents
- Technology development
- Prototype development
- Research internships

10. Facility Booking and Access

A standardized online request mechanism should be provided for institutional research facilities.

Facility Access Procedure

- Step 1:** Select the required facility/resource
- Step 2:** Check availability
- Step 3:** Submit online request
- Step 4:** Request reviewed by Facility/Lab In-charge
- Step 5:** Approval and scheduling
- Step 6:** Facility utilization
- Step 7:** Feedback and utilization record

Facility Request Information

- Applicant Name
- Department/Organization
- Faculty/Research Scholar/Student
- Facility Required
- Purpose of Research
- Preferred Date
- Duration
- Research Project/Proposal
- Internal/External User
- Approval Status
- Facility In-charge

11. R&D Support Request

Researchers may submit online requests for:

- Journal selection
- Journal verification
- Plagiarism checking
- Research database access



- Funding opportunity information
- Proposal development
- Patent/IPR assistance
- Research collaboration
- Equipment/facility access
- Industry collaboration
- Research consultancy

13. R&D Cell Dashboard

For institutional monitoring and reporting, the portal may maintain a dashboard containing:

Indicator	Information
Research Facilities	Total facilities available
Equipment	Total research equipment mapped
Digital Resources	Number of subscribed resources
Turnitin Requests	Number of similarity-check requests
Publications	Research publications supported
Grants	Proposals submitted/approved
Patents	Patents filed/granted
Collaborations	Active collaborative projects
Problem Statements	Problems registered
Facility Utilization	Monthly/annual utilization
Consultancy	Active consultancy projects