Indira College of Engineering & Management, Pune

Approved By AICTE New Delhi, DTE (MS), Affiliated to Savitribai Phule Pune University and Accredited by NAAC (Id-No. PU/PN/Engg/282/2007)

INDIRA

Research & Development Policy

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Near Somatane Phata, Taluka Maval,- Pune 410 506

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This Research and Development policy is drafted by the following members:

S.No	Name of the Faculty	Designation
1.	Dr. Poorna Shankar	Professor and Dean R&D
2.	Dr. Manjusha Tomar	Associate Professor
3.	Ms. Manjusha Tatiya	Assistant Professor

This Research and Development policy is reviewed by the following members

S.No	Name of the Faculty	Designation
1.	Dr. Sunil B. Ingole	Director, ICEM

The Policy is recommended by the College Development Committee and Governing Council and approved by Dr. Tarita Shankar, Chairperson , Indira Group of Institutes and implemented with effect from 1st January 2022.

Research and Development Policy

Preamble:

Overall, a research policy is essential for creating a research culture in a college that fosters innovation, collaboration, and excellence. It helps to ensure that research activities are conducted with the highest standards of integrity and compliance, and that the outcomes of research are disseminated and utilized for the benefit of society. This policy defines the applicable rules and regulations to be adhered while carrying out various research activities and norms related to safe and ethical conduct of research. This policy helps to ensure accountability and transparency in research activities

This policy aims to establish a framework for promoting and supporting research activities among faculty, students, and staff. The research policy provides a broad framework to the research related tasks with the following objectives:

Objectives:

1) To identify and inform all researchers about the research opportunities available in academic, industry, government and research organizations.
2) To provide a conducive environment and motivation for undertaking interdisciplinary projects and research.
3) To facilitate the presentation of the research work in academic events such as national / international conferences and enhance the standard of research publications.
4) To establish center of excellence in association with industries and create modalities for preparing and undertaking joint research projects.
5) To establish a long term relationship with research organizations for widening the scope of research opportunities and funding options available to the academic fraternity.
6) To encourage participative research in all academic programs and promote internal funded research and consultancy services.
7) To acquire membership of renowned professional bodies and promote linkage with Industry and other institutions of global repute.
8) To ensure the quality of all research activities of the college and to observe the highest standards of ethics and integrity in the conduct of their research

Policy Guidelines:

The following guidelines shall apply to all research activities in the college:

1. **Research Integrity:** All research activities must be conducted with the highest level of integrity and adherence to ethical principles. Researchers must comply with all relevant laws and regulations governing research, including the Institutional Review Board (IRB) guidelines for research involving human subjects.

2. **Funding:** The college shall provide adequate funding for research activities through internal and external sources. Researchers must apply for grants and other sources of funding through the research and development cell, which will provide guidance and support in preparing grant proposals.

3. **Intellectual Property:** The college recognizes the importance of protecting intellectual property rights arising from research activities. Researchers must comply with the college's policy on intellectual property and sign agreements that assign ownership rights to the college or other parties, as appropriate.

4. **Research Collaboration:** The college encourages interdisciplinary research collaboration among faculty, students, and staff. The research office will facilitate such collaboration by creating opportunities for joint research projects and hosting research seminars and conferences.

5. **Research Dissemination:** The college recognizes the importance of disseminating research outcomes to the academic community and the public. Researchers must publish their research outcomes in reputable academic journals and present their work at national and international conferences. The college will provide support for the publication of research outcomes and the organization of research seminars and conferences.

6. **Research Facilities and Resources:** The college shall provide adequate research facilities and resources, including laboratories, equipment, and software, to support research activities. The research office will coordinate the allocation of research resources and ensure that they are used efficiently and effectively.

7. **Reporting and Evaluation**: The college shall require researchers to report on their research activities and outcomes regularly. The research office shall monitor and evaluate research activities and outcomes to ensure compliance with college policies and to identify opportunities for improvement.

Policy

1. Research interest group has to be formed based on similar research interest, domain and skill set. This group will be interdisciplinary in nature.

2. All faculty members are expected to publish quality research papers in any of IEEE, SCI, Web of Science, Springer, Scopus indexed, ABDC, ASME, ASCE, ACM, MIT,SCEI journals having high impact factor.

3. For all Assistant Professors, it is expected to publish **at least one paper** in the refereed international journal mentioned in Policy No. 2 **and one** research paper in national / international journal /conference with high impact factor / UGC CARE journal **every year**.

4. For all Associate Professors and Professors, it is expected to publish **at least two papers** in the refereed international journal mentioned in Policy No. 2 **and one** research paper in national / international journal / conference with high impact factor or UGC CARE journal.

5. Final year projects should have research focus with interdisciplinary in nature and lead to at least one publication in the refereed journal.
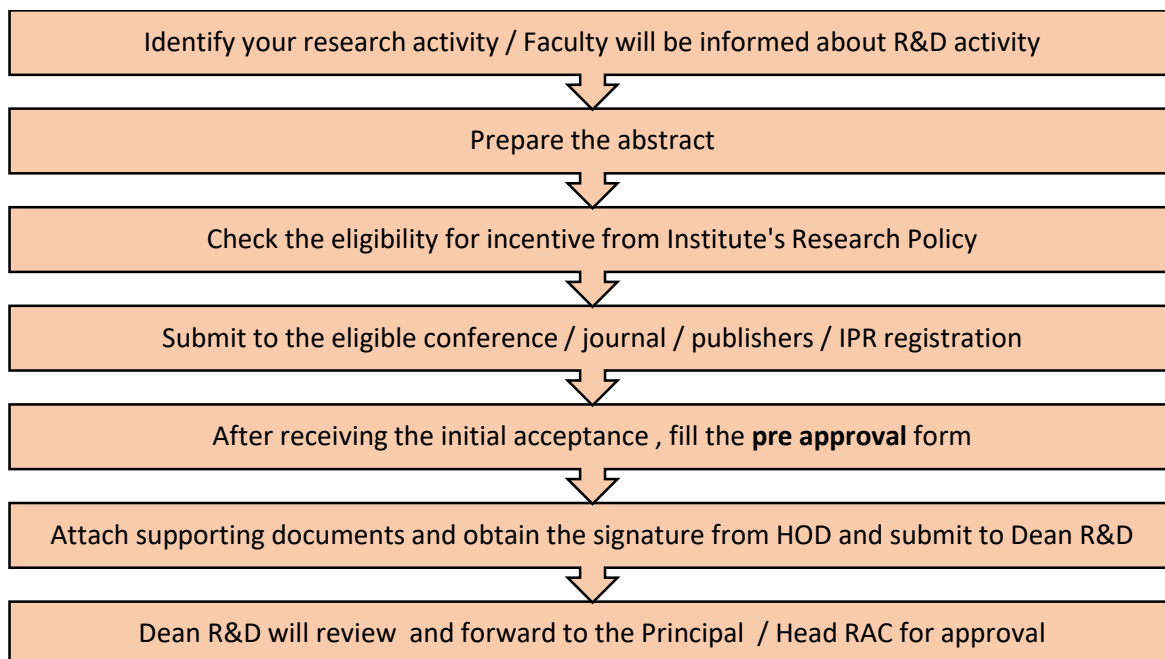
6. ICEM shall establish at least one centre of excellence in the thrust areas of research in collaboration with Industry. This facility can be extended to researchers and faculty from other organization and Industry.

7. Faculty will be motivated to pursue collaborative / inter disciplinary research activities and acquire funding from agencies / industry.

8. More Workshops/Seminars/Conferences are to be organized in association with professional bodies/industries/funding agencies regarding opportunities in R&D.

9. ICEM will encourage the research projects with innovative ideas by providing seed money to kick off.

10. Consultancy:

   • Every department is expected to prepare a brochure to exhibit their expertise in providing training and consultancy services to industries and other institutions.

   • The Consultancy activities are to be promoted through alumni, recruiters, social media and corporate network.

   • The department shall enter into MOU to utilize the resources and infrastructure such as equipment, testing and laboratory facilities with the funding agencies.

   • The progress of the consultancy projects and budget utilization statements are to be submitted periodically to the R&D department.

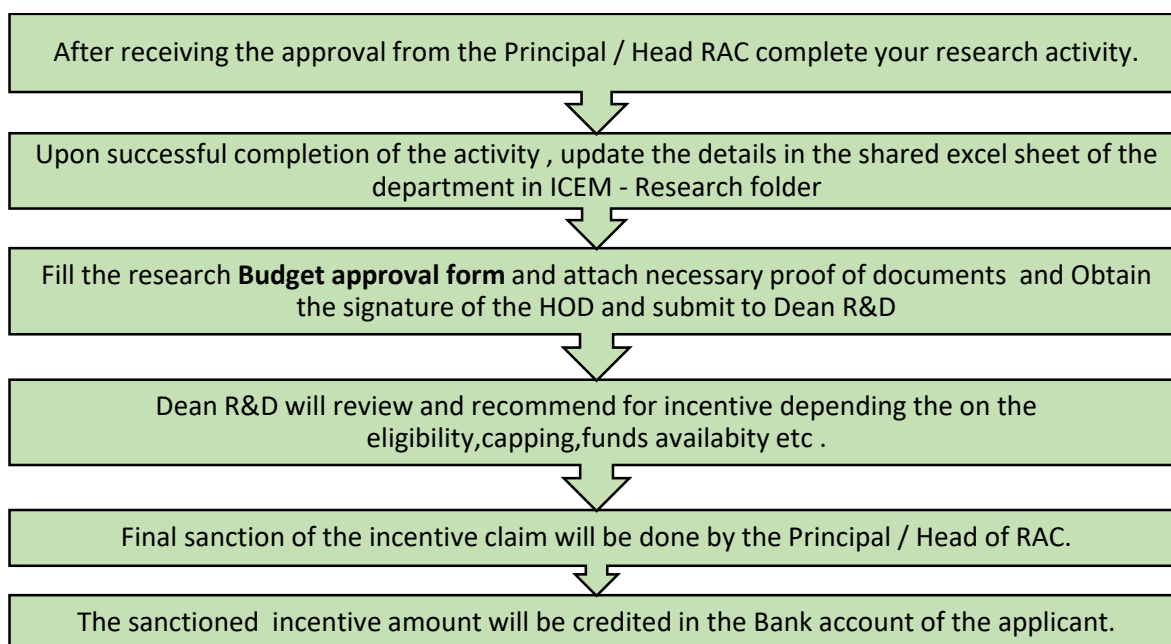## Research Incentive schemes to faculty for the R&D activities

S.No	Category	Incentive
1.	Publications in Scopus / Web of Science / Pubmed / Thomson Reuter Impact factor Journals	Rs.10,000/- all inclusive
2.	UGC CARE Listed journals	Rs. 8,000/- all inclusive
3.	Presentation and publication in IEEE/ASME/CSI conferences where papers are published in Scopus indexed or UGC CARE journals and FOUND ONLINE	Rs. 8000/- (out of Maharashtra) Rs. 5000/- (with in Maharashtra) One per faculty per academic year On duty of conference and two days for travel will be sanctioned. No separate travel allowance .
4.	International Conferences	Case to Case basis on Prior Permission of the Management
5.	Citation	For every 10 citations in a calendar year an incentive of Rs. 5000/- will be given.
6.	Indian Patent with college as one of the applicant for faculty	Rs. 5000/- per application will be paid by each faculty applicant. Remaining will be paid by the Institute max Rs. 20000/-. One per academic year per faculty.
7.	Indian Patent with college as one of the applicant with students	Rs. 5000/- will be paid by per faculty applicant and Rs. 1000/- will be paid by per student applicant. Remaining will be paid by the Institute max Rs. 20000/-. One per academic year per faculty / per student
8.	Incubation / Start up / Innovative Research Project	Application case to case basis as seed money Rs. 50,000/- max per project. One project per A.Y per faculty
9.	Book Publication	For single author – Rs. 10000/- per book once for a book For two authors –Rs. 5000/- per book For more than two authors – Rs.2500/- once for a book For a chapter – Rs. 2000/- per chapter (Max 2 per A.Y)
10.	Research Project	3% of amount of total sanction divided in all researchers

Research incentive for Faculty Process Flow:

Pre Approval:

Identify your research activity / Faculty will be informed about R&D activity

Prepare the abstract

Check the eligibility for incentive from Institute's Research Policy

Submit to the eligible conference / journal / publishers / IPR registration

After receiving the initial acceptance , fill the **pre approval** form

Attach supporting documents and obtain the signature from HOD and submit to Dean R&D

Dean R&D will review and forward to the Principal / Head RAC for approval

Process for reimbursement – post activity

After receiving the approval from the Principal / Head RAC complete your research activity.

Upon successful completion of the activity , update the details in the shared excel sheet of the department in ICEM - Research folder

Fill the research **Budget approval form** and attach necessary proof of documents and Obtain the signature of the HOD and submit to Dean R&D

Dean R&D will review and recommend for incentive depending the on the eligibility,capping,funds availabity etc .

Final sanction of the incentive claim will be done by the Principal / Head of RAC.

The sanctioned incentive amount will be credited in the Bank account of the applicant.

Approved by

Dr. Tarita Shankar
Chairperson, Indira Group of Institutes, Pune   **Date :** 15 Dec 2021
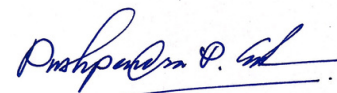
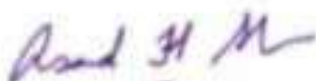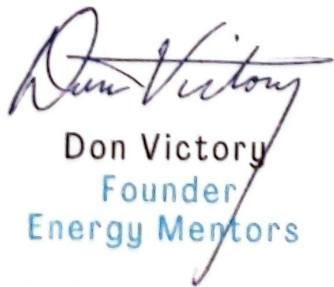# 2023 Energy Mentors - IIT Ropar Internship Program Certificate
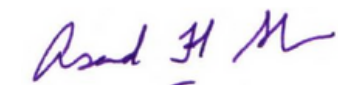
granted to

Bhasme Akash Vinayak

for successfully completing the online internship program coordinated by IIT Ropar in collaboration with Energy Mentors, USA and IIT Ropar-TIF-AWADH from May 21st to July 24th, 2023. As part of a five-member team, the candidate worked on developing a digital twin of a Hybrid Energy System.

Don Victory
Founder
Energy Mentors

Dr. Pushpendra P. Singh
Project Director
IIT Ropar-TIF-AWADH

Dr. Asad H. Sahir
Program Coordinator
IIT Ropar

Dr. Dhiraj K. Mahajan
Program Coordinator
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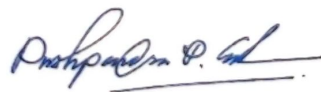
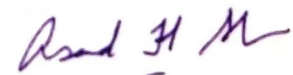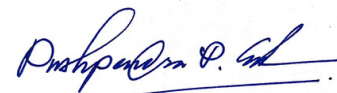# 2023 Energy Mentors - IIT Ropar Internship Program Certificate

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Eshali Gorakh Wable

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Don Victory	Dr. Pushpendra P. Singh	Dr. Asad H. Sahir	Dr. Dhiraj K. Mahajan
Founder	Project Director	Program Coordinator	Program Coordinator
Energy Mentors	IIT Ropar-TIF-AWADH	IIT Ropar	IIT Ropar

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Deshmukh Mayuri

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Energy Mentors

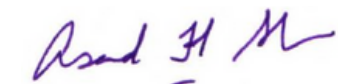# 2023 Energy Mentors - IIT Ropar Internship Program Certificate

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Pujari Dnyaneshwar Balu

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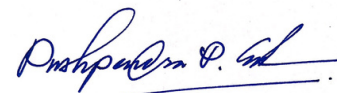IIT Ropar

Indian Institute of Technology Ropar

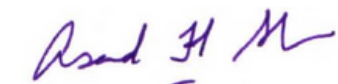# 2023 Energy Mentors - IIT Ropar Internship Program Certificate

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Vishal Balasaheb Japkar

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