

**2023-24**

# **Student Research Program**

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# Student Research Program

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## Introduction

Pandit Deendayal Energy University believes that competent and well-motivated students should be given a chance, while they are still beginners, to see and have a part in what is happening at the frontiers of knowledge and creative work today. Student researchers undertake their research projects and even sum up their research experiences by writing theses and paper publication.

The objective of this Student Research Program is designed to provide financial assistance to various research initiatives carried out by PDEU students. The initiative in terms of series of experiments, publication, creative outcome, or a well-planned research project must provide students with a meaningful research experience. The student assumes the principal role, and the faculty or teaching academic staff member serving as a mentor. The student must write the research project proposal, publication, and IPR document using the advice and technical expertise of the mentor as a guide.

There are several reasons that the students should participate in Student Research Program

1. It illustrates the high-quality scholarly work, whether it is a traditional data-based activity, literature reviews, or historical research. Because modeling can facilitate learning, showing students what their peers have accomplished should help to encourage ever-widening circles of students to become engaged in and excited about research.
2. Transmitting the results of a project through a publication in a journal or developing an IPR (Patent or Design) requires the development of formal written communication skills. According to employers and professionals, increasing undergraduates' written techno

communication skills would make those students more attractive for employment and for admission to post-graduate training or education. Design, Patents, and Journals provide an excellent opportunity for students to list a professional publication on their resumes.

3. It increases students' success in life following graduation. The amount of time and focus required to execute a project or publish a patent or research paper prepares students for other challenging yet rewarding tasks they will face throughout their lives.

4. Student research is a vital component in education. The literature suggests that students take projects more seriously and learn more when the project is directed towards an external rather than an internal audience, such as a class assignment.

5. Projects, Patents, and Papers empower students to share their knowledge with others and promote discussion in the student community to which they belong.

#### **The SRP assists PDEU Students in:**

Planning for an undergraduate research experience;

Identifying faculty mentors and projects;

Defining research goals;

Presenting and publishing research findings; and,

Seeking funding for their research.

#### **The SRP helps PDEU faculty by:**

Offering assistance in preparing grant proposals for research opportunities;

Providing support for the inclusion of research projects in undergraduate courses through the emerging Research Learning initiative.

The SRP works to ensure that all PDEU students have access to undergraduate research opportunities by:

Creating initiatives that expand research opportunities;  
Providing a public forum for students to present their work; and,  
Assisting faculty to integrate undergraduates into the knowledge-making process.

### **Eligibility**

The Student Research Program is open to all interested full-time PDEU students (Except the PG / Doctoral Students who get the benefit of any type of Assistance Ship from the University) who is currently studying & fulfilling the following eligibility criteria the University can apply for financial assistance under this scheme.

1. There should be no backlog when submission of proposal (For All the team members).
2. All the students should have maintained a minimum of 80% attendance at the time of submission of application for all their studies & during the project period.

### **Guidelines**

1. The online application for financial assistance in the prescribed format should be submitted.
2. The students must submit a brief proposal in the "Prescribed Format" as per the submission deadline.
3. Item-wise financial estimates should be mentioned clearly in the proposal submitted, showing rates, quantity, and total for each item.

### **Rules**

1. These rules may be called the 'Rules for grant of financial assistance to Student Research Program.'

2. Financial assistance may be limited to specific expenditure items or cover a part of the expenditure on the whole function.
3. The quantum of assistance with the ceiling is given below.
4. The Student team and Project Guide will be required to make the presentation before the project review committee. The panel will have the right to suggest changes or modifications in the research method, idea, or concept to better research activities.
5. If the panel gets satisfies the work is diluted or not as per the expected outcome or proposal, the panel may advise premature closure of the same if no option for modification, changes, development, or improvement are available.

## **Financial Support**

### **Scheme 1: Student Research Project Grant**

Student projects will be eligible for a minimum grant of Rs.5,000/- and a maximum of Rs.250,000/-. The proposal should be submitted online only through the Research Information Management System of PDEU.

Subject to availability of funds, a proposal for financial assistance will be screened and approved by the duly constituted committee, which will subsequently be sanctioned by the DG, PDEU.

The student needs to submit a research paper in Scopus / WoS indexed journal and file a patent or design in the first six months of the project to continue the grant.

The whole or part of the granted money remaining unutilized within the prescribed time limit should be refunded to PDEU by remitting back the balance amount.

Utilization certificate and Statement of expenditure (two copies) shall be certified by all the students involved in the project, Project Guide(s) & Director of Concern School.

The PDEU reserves the right to order verification/audit of accounts by any Officer authorized by it.

### **Showcase:**

All the project team who will get sanction order have to mandatorily display the project output in terms of model, poster or paper presentation, during the exhibition for the same organized by Office of Research & Sponsored Program.

All the students need to participate in the same for the evaluation of the project. The student who will remain present during the showcase along with their project will be eligible for completion certificate and grant for attendance subject to evaluation and recommendation of panel of jury for the achievement of planned activities and objective.

The showcase will be organized after 10 months of Project allocated

### **Awards & Prizes:**

Awards with Following Categories will be given on the basis of nomination from eligible participants:

1. Best Project – University Level - Overall
2. Best Project – Engineering & Technology
3. Best Project – Liberal Arts & Management

## **Terms and Conditions**

The scheme is constituted to assist in the form of grants to students for scientific research work.

The research can be done on Managerial, Economics, Scientific, Technical, Policy Framework, Corporate Social Responsibilities, or any relevant aspects of the energy sector.

Grant will be released as an advance should be liquidated with the proof of expenditures before completing the project.

The Student team and Project Guide needs to submit the quarterly activity report in the prescribed format.

The maximum duration of the project will be one year from the date of start of the project.

The date mentioned on the Sanctioned Letter will be considered as start date of the project to PDEU.

Upon completing the project, 3 copies of the final project report on the work done should be submitted to the PDEU, and the utilization certificate (UC) and Statement of expenditure (SE) along with format in Closure Report. The Utilization Certificate and Statement of Expenditure should be countersigned by the Project Guide(s) & Director of constituent School.

The project guide will not entrust the implementation of the work for which the grant is being sanctioned to another project(s), nor will it divert the grant receipts to other students (s) as assistance.

PDEU reserves the right to terminate the project at any stage if it is convinced that the grant has not been adequately utilized or appropriate progress is not being made. Also, PDEU may designate a Scientist/Specialist or an Expert Panel to review the work done.



If the student(s) to whom the project has been sanctioned wishes to leave the institution where the project is based, the Project Guide will inform the same to the PDEU and, in consultation with PDEU, evolve steps to ensure successful completion of the project before relieving the student.

Students must acknowledge PDEU in reports and technical/scientific papers publishing based on the research work done under the project. Students are requested to publish some of the research papers emerging from the project work in leading Indian Journals.

If the results of the research are to be legally protected by way of intellectual property rights. The results should not be published without action being taken to secure legal protection for the research results.

The knowledge generated from the project will be the property of PDEU and should be appropriately acknowledged. Transfer to technology generated shall be done in consultation with the PDEU.

The PDEU may enforce additional guidelines for the operation of the student project from time to time, and the Project Guides / Schools are required to observe such directions in the conduct of the research work.