



Guru Gobind Singh Foundation's

Guru Gobind Singh College of Engineering & Research Centre

Approved by AICTE, Govt. of Maharashtra & DTE Mumbai, Affiliated to Savitribai Phule Pune University (Formerly known as University of Pune)

NAAC Accreditation first cycle "B+" with CGPA 2.72 in April 2019, DNV – GL Certified for ISO 9001 : 2015 Standards



3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

For fostering innovation, an Institution Innovation Council has been established which is recognized by the Ministry of Education. The council includes faculty, student members and experts from industry & alumni. The institute exclusively provides undergraduate degrees, and it has established a separate research and development cell to encourage a culture of research. Institute created an ecosystem for research by:

- Promoting research through, motivation for publications, patents, the development of products, organizing conferences and workshops, filing of research proposals etc.
- Developing financial support policies for initiatives like attending technical workshops, peer conferences and patent applications
- Actively seeks out prospects for financial grants and supports teachers who wish to submit proposals.
- Advising and recommending the faculty member's request for a leave for academic purposes.
- The institute has well-established labs and computing facilities that offer the assistance needed to carry out research and innovation operations. The institute has equipment like a computerized test rig for evaluating diesel engines, a high resolution materials microscope, material testing laborites, wind tunnel, manufacturing machineries, and design and simulation softwares like MATLAB, CATIA, STADPRO, AUTOCAD, ANSYS, CFD etc. among other things.

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- Linkages have been established with different organizations for imparting knowledge on latest technology which help the students and faculty to upgrade for various research related skill
- Providing seed money based on faculty and student requests for research and innovative projects. Innovative initiatives like the 3D printer, integrated solar and PTC water desalination, ATV vehicles, Robotic arm, few laboratory equipment's etc. have resulted from this.
- To raise awareness about entrepreneurship and start-ups, the Entrepreneurship Development (ED) cell has formed. Start-up Cell in partnership with the Center for Innovation, Incubation and Linkages (CIIL) in collaboration with Savitribai Phule Pune University in Pune is established. This collaborates with pupils to assist their realistic ideas.
- A computer center with upgraded computer systems, projection facilities & high speed internet connection is available for conducting technical training programs.

Thus the institute is propagating the innovation agenda by creating an ecosystem consisting of infrastructure, resources and networking.

Following are the outcome of these efforts:

- The DST awarded the funds for the creation of cow downer, an animal welfare project.
- Five patents are granted, few are in examination stage and 5 patents are published patents.
- Students developed working model of the all-terrain vehicle (ATV), 3D Printer, etc.
- Few projects participated in project competition and some of them won prizes
- The central government recognized the merit of the electrical engineering students' project and provided a startup fund.
- Few student's project funded by institute are in use for interactive teaching and learning or laboratory learning.

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- Faculty members have written research articles that are listed in SCI, SCOPUS or UGC care
- Many faculties are pursuing Ph.D. by using various resources available in the institute
- Faculties and students availed the financial assistance for attending conferences, patent publication and visit to research organizations
- Workshops for faculty have been conducted on different topics like IPR, Technological applications, Use of softwares etc.

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