

3.2.1. Institute has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Vasantdada Sugar Institute provides enriching ecosystem for inculcating research and innovative approach amongst the students and staff. Following initiatives are taken at management and institute level through financial, technological and infrastructural support for development of student and faculties through transfer of knowledge/technology.

- Institute has research committee having distinguished persons from different areas including academic and industrial point of view. In every year, Institute conducted technical committee meeting to evaluate all ongoing projects & to propose new projects for their dissemination in consideration to social impact.
- All outcome from the research related to either publication, IPR or any product development has been devised and published in our Institute web site.
- Institute also emphasizes and practices research linked teaching methods & pedagogies.
- Students are usually sent to different industries/companies for their research projects/internship which helps them to get job. There are 3 research guides recognized to the Savitribai Phule Pune University. There are 2 subjects i.e. Biotechnology and Environmental Sciences under which students undertake their Ph.D programmes. Five students have been already awarded for their Ph. D. thesis work and 10 Ph.D students have enrolled their Ph.D and working as the scholar.
- The Institute brought different research projects from different Government and private agencies such as DBT, RGSTC, Govt. of Madhya Pradesh, Maharashtra Pollution Control Board Mumbai, etc. with a total research fund of Rs. 743.57 Lakh in the reporting period.
- Institute also encourage faculties & students and provide institute fund to initiate research activities through new projects. Students are encouraged to participate in the seminar/conferences & write research articles. Faculties & students published 37 peer reviewed journal articles, 46 publications in books, book chapter and conference proceedings.
- Institute published/filed 8 patents with the help of faculties, students and research scholars.
- Institute has signed 8 MoUs with different private and Govt. organization within the said 5 years duration to work on different research field linked to biofuels, biochemicals and other value added products and for for research, training and exchange with academic, research institutes and industries at national and international level.
- Institute organizes different workshop/seminar/conferences in each year for development of student and staff & to acquire knowledge on new technologies/processes. During these 5 years of duration, Institute have organized

21 workshop/seminar/conferences.

- Institute has developed well-equipped laboratories having different sophisticated instruments like GC, HPLC, CHNS, FT-NIR, Spectrophotometer, Ion Chromatography, NBS fermenters, Refrigerated centrifuge, etc. Institute have developed pilot winery facility and pilot facility for potash recovery from boiler ash which helps students to work at pilot scale research work.
- Department of Alcohol Technology & Biofuels and Department of Environmental Sciences has received accreditation from National Accreditation Board for Testing and Calibration Laboratories (NABL), Department of Science and Technology, Govt. of India.
- Institute has central library facility which creates knowledge & research support through reference book, research journals, conference proceedings, annual report, etc.
- Institute has specific software like AERMOD, ALOHA, QGIS which helps faculties and students for their research work.