


DST-FIST

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Vidya Pratishthan's Arts, Science and Commerce College has made mindful efforts towards further promotion of research on the campus. The Research Committee facilitates and monitors the research activities and provides all kinds of technical and practical support to researchers. The college has received Research and Development grants under various schemes from UGC, DBT and DST. Our college is Supported by the Department of Science and Technology (**DST**) **under FIST Scheme**, Government of India (0 level) since 2015.

Details of the Grant-

The DST has sanctioned Rs.70 Lakh for FIST program to strengthen the infrastructure of Science Faculty. The major facilities created under the FIST support (1st installment) are Basic science laboratories, Networking and Computational facilities, Book & Infrastructural facilities. The first installment of Rs. 52.50 lakhs has been utilized for addition of high quality instruments for enhancing research in science departments. Part of the funding is also utilized for setting up of Computational centre with net connectivity for students, Book facilities etc. Common Computer facility is developed through DST-FIST support.

 **Books** worth Rs. 3.00 lakh are purchased under DST FIST Funding.

Equipments Purchased:

1. UV-VIS Spectrophotometer and FTIR Spectrophotometer
2. CVD setup, Spin Coating Unit
3. Microcontroller based research Geiger Miller Counting System
4. Leica DM750 Microscope with ICC50E Camera system
5. Laminar air-flow, DSO etc.
6. Centrifuge 5430R, Concentrator plus, Bio Spectrometer Equipments
7. Spin Coating set-up
8. Centrifuge 5430R, Concentrator plus, Bio Spectrometer Equipments
9. Vacuum software
10. Maple software

Computational and Networking facilities:

The fund is utilized for installing 15 Desktop PC in the central computer facility department with internet connectivity. This facility provided support for students to learn computer programming work, "C" programming as well as reference materials.

✚ Advantages:

- Department of Computer science, Mathematics, Statistics conducted Maple, SAS software training programs on 5-8th Feb.2018. The faculty members perusing for their research work with associated students use common Computer facility for the reference as well as computer programming work.
- This facility is made available to all UG/PG/research students for conducting online examination, Online educational programs for e-learning. For Research topic presentations, discussions of research projects this facility is used by staff and students of the college.
- Department of Chemistry also organized one day workshop on ‘Hands on Training on FTIR’ on 6th March 2018 for T.Y.B.Sc. Chemistry, M.Sc. Analytical Chemistry and M.Sc. Biotechnology students. These equipments are also useful to the UG/PG students and staff members in their research projects
- All the students of Physics, Biotechnology departments have greatly benefitted due to the hands on experience with UV-VIS and FTIR Spectrophotometer, Spin coating unit, available in the central research facility centre.
- This facility will make a clear impact to short list the students of all life science departments for various competitions including ‘AVISHKAR’ Research project competition. It will also lead for the quality publications of the faculty in peer reviewed research journals with high impact factor and citation index at International and National level.
- Thus, the availability of funds provided the opportunity to enrich the resources of all Science departments for the development of teaching basic science education at the UG/PG level. DST-FIST scheme is useful in strengthening present curriculum and upgrade the laboratories to provide maximum hands-on for UG/PG students in all Science departments of the college. It helps in successful initiation of interdisciplinary activities focused on studies in basic sciences.

Dr. Mrs. Jayashri Bagawade

Co-ordinator, DST-FIST

Dr. Bharat Shinde

Principal