

### **3.1.1 The institution's research facilities are frequently updated and there is well defined policy for promotion of research**

Arul Anandar College has created an ambience for the promotion of research. Out of 147 members of the faculty, **86 are doctorate holders**. There are **21 recognized research guides** under Madurai Kamaraj University.

Three Faculty members published **Patents**.

The Departments of **Economics, Physics and Rural Development Science** are approved Research Centres. Faculty members from the Departments of **Tamil, English, History, Philosophy, Mathematics and Chemistry** offer part time research guidance under Madurai Kamaraj University. The College has applied to Madurai Kamaraj University for the upgradation of the departments of **Mathematics and Philosophy** to become Research Centres.

**61 research scholars** are pursuing their Ph.D. programmes, at present while **40 scholars received their Ph.D. degree** during the last five years.

The Research Council under the guidance of **Dean for Research** promotes research activities. The representatives of the research scholars are members of the Research Council. The Council encourages the faculties to apply for research projects. It helps the faculty members to update themselves with latest skills through training programmes.

The Management has instituted a **seed money of Rs. 10 Lakhs** for the promotion of research. The Research Council takes initiatives in identifying potential researchers and distributes grant as per the policy and procedures.

The faculty involved in research and research publications are encouraged with the **Best Researcher Award and Best Publication Award**, and their excellent contributions are recognised through publicising their achievements in the IQAC biannual newsletter, Governing Body Report and Annual Report. Staff members are also provided fund for attending and presenting research articles in reputed conferences within and outside the country.

The College is a **DST-FIST** sponsored institution. The involvement of the faculty in doing minor and major research projects funded by **UGC, DST, DAE, ICSSR and TNSCST** is instrumental in improving research facilities and quality publications. The College also has invested substantially for the improvement of labs. The equipments like Dip and Spin Coating Unit, Spray Pyrolysis, Hall Effect and Four Probe Setup, SILAR Coating Unit, Photo Catalyzer Setup, I-V Characterization Setup, Ultrasonic Interferometer, FTIR & UV Spectrometers, Photo luminescence Setup, Probe Sonicator, Tubular Furnace, Box Furnace, Hot Air Oven, Chiller Unit, UV-Visible Photo Sensing Setup, Gas Sensing Setup, Double Distilled Water Plant and Lyophilizer are worth mentioning.

Rooms with computers are provided for Research scholars. A separate **Computer Networking Lab** is also available. Software like **Mathematica, Lab View, IDL** are available. **Plagiarism** software is available in the library. These facilities enhance the research ambience among the PG students and research scholars.

Our students received grants under various scholarship schemes, such as **Women Scientist, Jawaharlal Nehru SC/ST Scholarship, Maulana Azad Scholarship and Tamil Nadu State SC/ST Scholarship**, etc.

Mr. Suresh Karuppiyah, research scholar in the Department of Physics was selected and participated in training under **SCOSTEP's Visiting Scholar program at NASA** Goddard Space Flight Centre (NASA/GSFC).

To promote research, the College has collaborative work with other educational/research institutions, such as Kyung Hee University, South Korea, Jeayaraj Annapackiam College for Women, Periyakulam, REST Society, Darmapuri and G.T.N Arts College, Dindigul.