

**About the Institution:**

**Avinashilingam Institute for Home Science and Higher Education for Women** (Deemed to be University under category “A” by MHRD estd. u/s of UGC Act 1956) was established as an aided college by the great patriot and educationalist **Padmabhushan Dr.T.S.Avinshilingam** under the auspices of the Avinshilingam Education Trust in 1957. The growth of the Institution has been carefully nurtured to its current heights by the world renowned educationist and nutritionist, the Former Chancellor of the University, **Dr.Rajammal P. Devadas**. It is now a prime institution in the country for imparting quality education to women at all levels. The Institution follows the ideals and principles of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhi and upholds a life of purity, discipline and service. The Institute operates under seven Schools, namely, Home Science, Physical Sciences & Computational Sciences, Biosciences, Arts & Social Sciences, Commerce & Management, Education and Engineering.

**About Advanced Research Laboratory:**

ARL was established with **high end state of the art equipment** - to promote high quality research in various disciplines by providing facilities and technical expertise in support of basic and advanced research activities. The laboratory promotes scientific thinking and experimental exposure for the faculty and students as well.

**About the Workshop:**

This workshop will focus on the basic techniques in biological science research demonstrating colorimetry, spectrophotometry, chromatographic and electrophoretic separation of biomolecules with along imparting the troubleshooting tips and critical problem solving skills. This will enable the research scholars to acquire basic analytical skills necessary to carry out quality research work.

**Chief Patron**

**Dr.T.S.K. Meenakshisundaram**  
Chancellor

**Patrons**

**Dr. V.Bharathi Harishankar**  
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**Dr. H. Indu**  
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**Advisor**

**Dr. Anitha Subash**  
Dean, School of Biosciences

**Convenor**

**Dr. S.Gayathri Devi**  
Professor and Head  
Department of Biochemistry, Biotechnology  
and Bioinformatics

**Coordinator**

**Dr. R.Nirmaladevi**  
Associate Professors  
Department of Biochemistry, Biotechnology  
and Bioinformatics



**Avinashilingam Institute for Home Science and Higher Education for Women**  
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)  
Re-accredited with ‘A’ Grade by NAAC CGPA 3.65/4, Category 1 by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**ADVANCED RESEARCH LABORATORY**

*Cordially invites you to the*

**One – Day workshop on  
Basic Techniques in Bioscience  
Research**



**Organised by  
Advanced Research Laboratory  
in association with**

**Department of Biochemistry,  
Biotechnology and Bioinformatics**

**Venue: ARL Lab**

**Contact: [arl\\_avinuty.ac.in](http://arl_avinuty.ac.in)**

**BASIC TECHNIQUES IN  
BIOSCIENCE RESEARCH**

**Conducted every year 2 times**

- Preparation of extracts and their concentration (drying and lyophilisation) - yield calculation and measurement of absorption spectrum in the UV and Visible.
- Isolation and Quantification of nucleic acids by spectrophotometric and UV absorption methods.
- Estimation of chromogenic derivatives of molecules in micro volumes.
- Separation of plant pigments and Phytoconstituents by TLC.
- Separation of Amino acids by column chromatography.
- Separation of samples by gel electrophoresis.

