



Selvam College of Technology

UGC Recognized 2(f) Status | An ISO 9001:2008 Certified Institution

SELVAM GREEN TECHNOLOGY RESEARCH CENTRE

Objectives

- ❖ Discover innovative solutions for the sustainable environment.

Ongoing Projects

- ❖ Purification of textile effluents by plant extracts.
- ❖ Production of biodiesel and biofertilizer from sewage sludge.
- ❖ Production of green plastics from algae.
- ❖ Ethanol production from lignocellulosic waste.

Head

Prof. N. Sharmiladevi, HOD/Biotech

SELVAM BUILDING MATERIALS RESEARCH LABORATORY

Objectives

- ❖ To create new engineering materials to improve the performance of infrastructure.
- ❖ Improve fundamental knowledge of the inter-relationships between the built environment and natural systems.

Ongoing Projects

- ❖ Durability of concrete structures.
- ❖ Detection of carbonaceous attack on structures.

Head

Prof. V.Prabhu, HOD/Civil



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SELVAM NETWORK RESEARCH LABORATORY

Objectives

- ❖ To create and disseminate the knowledge of problem solving using computers.
- ❖ Architectures and protocols for high speed optical and wireless networks
- ❖ Cross layer optimization and network design.

Ongoing Projects

- ❖ LEACH protocols with energy efficient packet transfer in wireless sensor networks.
- ❖ Scalable and reliable matching services for content based publish/subscribe systems.

Head

Dr. M. Balakrishnan, ASP/CSE

SELVAM RESEARCH CENTRE FOR INTEGRATED AND COMMUNICATION DESIGN LABORATORY

Objectives

- ❖ Developing research on signal and image processing techniques for medical, biological, pollution monitoring and agriculture.
- ❖ Designing embedded projects for an automatic environment in home, commercial and environmental applications.

Ongoing Projects

- ❖ Image processing for early leaf disease detection.
- ❖ Automatic LPG cylinder monitoring system using embedded system.
- ❖ Automatic water level monitor and controller system using embedded system.

Head

Prof. T. Loganayagi, ASP/ECE



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SELVAM CENTRE FOR RENEWABLE ENERGY RESEARCH LABORATORY

Objectives

- ❖ Designing and developing new and innovative custom engineered solutions in the applications of power electronics and renewable energy sources.

Ongoing Projects

- ❖ Multilevel Inverter.
- ❖ Interleaved Boost Converter.

Head

Dr. S. Ravi, Prof/EEE

F.W. TAYLOR RESEARCH CENTRE

Objectives

- ❖ To nurture the rural mind to the global standard.
- ❖ Aiming to conduct management developmental programmes to the micro, small and medium enterprises.

Ongoing Projects

- ❖ Study on emotional intelligence of employees towards customer satisfaction in KKP Spinning Mills.
- ❖ Training and developments towards product development in TNPL Ltd., Karur.

Head

Dr.A.Jayaseelan, HoD/MBA



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SELVAM ADHOC NETWORK RESEARCH LABORATORY

Objectives

- ❖ Advice and solutions for computer networking problems such as network protocols and architectures, wireless and sensor networks, data center networking, medical networks etc.

Ongoing Projects

- ❖ Plant monitoring using heterogeneous sensor.
- ❖ Enrich Android applications security with cloud computing and big data analysis.

Head

Dr. M. Devi, HOD/ MCA

SELVAM DRUG DESIGNING LABORATORY

Objectives

- ❖ Computational drug designing for potential drug target.
- ❖ Use Selective Optimization of Side Activities (SOSA) approach of for Food and Drug Administration (FDA) approved drugs against various novel targets.

Ongoing Projects

- ❖ Analysis of invariant water molecules in HIV protease and its role in drug design
- ❖ Spectroscopic and crystallographic analysis of some biologically important molecules

Head

Dr. V. Dhanasekaran, AP/ Physics



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SELVAM NANOMATERIALS RESEARCH LABORATORY

Objectives

- ❖ Renewable energy resource (solar light) utilization for environmental cleaner process.
- ❖ Early cancer diagnosis and treatment using near-infrared based fluorescence bioimaging techniques.

Ongoing Projects

- ❖ Synthesis of Titanium dioxide (TiO_2) nanoparticles for wastewater treatment applications.
- ❖ Yttrium oxide (Y_2O_3) nanoparticles synthesis for bio and environmental applications.

Head

Dr. N. Venkatachalam, ASP/ Chemistry

Patent Details:

Patent Application No. : 505/CHE/2015

Title : Automatic Feeder System for Hen Feeding in Poultry Farm

Date of Filing : 02-02-2015

Patent Application No.: 955/CHE/2015

Title : A Mechanism for Reutilization of Brake Power in Vehicles

Date of Filing : 27-02-2015

Patent Application No. : 201641018457

Title : A NOVEL METHOD OF PRODUCING ELECTRICITY BY TRAPPING PHOTON ENERGY FROM LIGHT SOURCES

Date of Filing : 30. 05. 2016



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Trademarks

Trade Mark Application No. : 3047708

Title : KNOWLEDGEPRENEURSHIP

Date of Filing : 04-09-2015