



**DHANALAKSHMI SRINIVASAN
ENGINEERING COLLEGE,
PERAMBALUR - 621212**

**RESEARCH AND DEVELOPMENT
NEWSLETTER 2017-18**

FROM THE EDITOR'S DESK

Dhanalakshmi Srinivasan Engineering College was established in the year, 2001 with the vision to be a world class nodal centre committed to advanced learning and research. A dedicated team of Research and Development cell is headed by Principal to provide a creative atmosphere and platform where research can thrive. It also promotes and manages Institute-Industry interaction, consultancy, extension activities and all externally funded projects. The objectives of R&D cell are to:

- Encourage faculty members to undertake projects including consultancy services.
- Support and conduct seminars / workshops / conferences / symposia for effective dissemination of knowledge.

Research and Development Newsletter is issued with the prime objective of showing the essence of research scenarios in the campus for the academic year 2015-16. The readers from other institutions of higher education and industries can come together and convey their innovative ideas.

About the Institution

A renowned visionary and philanthropist Shri. A.Srinivasan, Founder/Chairman, Dhanalakshmi Srinivasan Charitable & Educational Trust in the year 1994. Dhanalakshmi Srinivasan Engineering College under the aegis of this trust, was established in the year 2001, approved by AICTE, New Delhi and affiliated to Anna University, Chennai. From the day of inception, the College is prodigiously functioning with the State-of-the-art laboratories and classrooms. The College is accredited by NAAC with 'A' Grade which reveals the college striving factor to establish itself as an "Institution of Excellence" in the field of technical education.

About the Research and Development Cell (R&D)

A dedicated team of Research and Development cell is headed by the Principal, to provide an ambience for creative and innovative platform where the research can thrive. It also promotes and manages seminars, symposia, conferences and workshops for varied horizons of technical zones. The cell insists on conduct and active participation of both the staff and student members in co-curricular activities. This helps them to be dynamic in aspects of acquiring knowledge in recent trends. The sponsored research proposals from faculty members are also insisted towards receiving funds for enhancement of pioneering ideas. R&D Newsletter is issued with prime objective of showing the essence of cutting

edge technologies and the college orientation towards the same.

Editor's Message

Our goal is to create a new forum for exchange of information on all aspects of engineering science and technology. Future scope of the R&D Newsletter is open to your suggestions for enhancing the research aspects of our college. I would like to encourage you to submit original research notes as well as opinions, technical reports, and short communications in the general area of engineering. The Newsletter focuses on keeping everybody informed of oncoming events organized by the institution, give you insights on the development strategies and directions, as well as introduce our staff to you. I wish the Institution to develop into a scientific forum with the balance changing toward research communication rather than remain a bulletin. The success of this enterprise depends on your response. I would appreciate your optimistic feedback also.

Research Activities

The Department of Biomedical Engineering has organized its Association Inaugural and a One Day Seminar, on 22nd July 2017. Prof.Dr.J.Ranganathan, Dean of Dhanalakshmi Srinivasan Medical College and Hospital, Perambalur and Prof.Dr. T.Neelakantan, Medical Superintendent of Dhanalakshmi Srinivasan Medical College

and Hospital, Perambalur hosted the seminar.



The Department of Information Technology has organized for an Industrial visit to the Indian Space Research Organization from 14.09.17 to 15.09.17

The Department of ECE has organized for a Seminar on Reconfigurable Planar Antenna by

Dr T Shanmuganathan Pondicherry University, Pondicherry.

The Department of Civil Engineering has organized One day guest lecturer was conducted on 08.02.2018 and it was conducted by Dr.T.Rajaram Professor Rover Engineering College of Technology.



NATIONAL CONFERENCE 2018

LIST OF CHIEF GUEST FOR NCON

S.NO	DEPT	CHIEF GUEST NAME WITH AFFILIATION
1	BME	Dr.R.Ganesan,Saveetha Engineering College
2	ECE	Dr.S.Raghavan,NIT-Trichy
3	MECH	Dr.K.Srithar,Thiagarajar College of Engineering,Madurai
4	CIVIL	Dr.C.Sivaprakasam,Kalasalingam academy of research and education
5	CSE	Dr.Mallikarjunaswamy,Sri Siddharath Institute of Technology, Karnataka
6	IT	Dr.Kim,Hannam University, South Korea
7	EEE	Dr.P.Ajay Vimalraj,Pondicheery engineering College, Pondicherry
8	MBA	Dr.S.Yavanarani, Aacharaya B-School, Bangalore
9	MCA	Dr.Senthilarasu, NIT-Trichy

NCON'18 was organized from March 19-27, 2018. The scope of the National Conference (NCON'18) was to create forum for researchers, developers to identify advanced technologies with highest potential applications in all the fields. Delegates from industry, academic and R&D organizations attended the event. A total of 370 papers were published in the National conference (NCON'18) proceedings. During eight days, more than 16 technical sessions were organized from eminent experts of various other organizations. Tamilnadu State Council for Science and Technology had provided us the financial assistance for organizing the conference.



The Department of CSE has organized for Technical Seminar on WebApp Development on 10.02.2018 which was presided by Mr M Imran Khan SS Soft Solutions Trichy.



The societal welfare Biomedical camp “KRENOVIANTZ’18” was conducted on 19.02.2018 and it was conducted by **Dr.S.Durairaj** Principal Dhanalakshmi Srinivasan Engineering College



Faculty as Resource Person

• **Dr K Shanmugapriya** Dept of Civil Engineering gave a lecture on “Water Harvesting” in Rover Engineering College

• **Mr.C.Narayanan**, Professor, Dept. Of Biomedical Engineering, Dhanalakshmi Srinivasan Engineering College, Perambalur, presented a special talk on “Healthcare Management” on January 2018 at REC, Chennai.

• **Mrs.B.Karthiga**, was a resource person for the Guest Lecture “Digital Image Processing” at Mahatma Institute of Technology, Pudhukottai

• **R.RAJA** Guest Lecturer on Cloud computing in Dr.Navalar Neduncheling College of Engineering

Faculty attended Seminars and symposia

• **Mrs.Hemalatha Karnan and Ms.S.Abiramy**, attended two days Seminar “Advanced methods for the Synthesis of Biomaterials in implantology” on 24/07/2017 and 25/07/2017 at Mahendra Engineering College, Salem.

• **S.Suthagar, S.Karpagarajan, R.Thirugnanasambantham, J.Arunprasad**, attended workshop titled “How to do a good Ph.D” at MIT Campus Chennai on 03.03.2018.

• **Ms.B.Ashmitha and Ms.L.Vasanth Priya**, attended two days Seminar “Advanced methods for the Synthesis of Biomaterials in implantology” on

24/07/2017 and 25/07/2017 at Mahendra and Technology, vol 3 issue 1 pg no 38-41, Engineering College, Salem. 2018.

- **M.Parameswari,**” Efficient analysis of has water quality measurement reporting system attended a workshop about “Recent Trends using IOT based system in WSN, Cluster in Tribology and surface characterization Computing The Journal of Networks, which was held at centre for Software Tools and Applications, Springer, interdisciplinary research, Trivandrum, 12th Jan 2018, online publication, pp 1-9 SCI on 16.4.2018 to 20.04.2018. Indexed Journal
- **Thirugnanasambantham.R** has water quality measurement reporting system attended a workshop about “Recent Trends using IOT based system in WSN, Cluster in Tribology and surface characterization Computing The Journal of Networks, which was held at centre for Software Tools and Applications, Springer, interdisciplinary research, Trivandrum, 12th Jan 2018, online publication, pp 1-9 SCI on 16.4.2018 to 20.04.2018. Indexed Journal
- **Mr.A.Yogeshwaran** has attended a workshop about “RF Components-Design and Measurements Techniques” which held at VIT, Chennai, Trivandrum, on 4.2.2018.
- **K.Preetha,** ,”Building Automation to improve energy efficiency by using Fuzzy neural network for HVAC system, International Journal of Research Science and Engineering, Volume 2 Issue 6, June 2017

Publication Details

- **Chellappan.M Lingadurai. K,** Characterization and Optimization of TIG welded super martensitic stainless steel using GRA’, NCON 2K18 Proceedings in DSEC P 2018.
- **M.Parameswari,** Online measurement of water quality and reporting system using Prominent rule controller based aqua-care IOT”, An International Journal of Design Automation for Embedded Systems, Springer, 23rd October 2017, Volume 22, Issue 1-2, pp 25-44 SCI Indexed Journal
- **Dr.K.Shunmugapriya** “Identification of Suitable Soil parameter for the growth of Brackishwater Aquaculture in thiruvallur Dt using Remote Sensing and GIS” International Journal of Advanced trends in Engineering and Technology, vol 3 issue 1 pg no 38-41, 2018.
- **Prof.R.ABINAYA,** has attended International Conference which held at Sri Ramakrishna Engineering College, Perambalur on 10.3.2018
- **Dr.K.Shunmugapriya** “Evaluation of soil for Agriculture Purpose in Veppanthatti Block” International Journal of Engineering Research and Modern Education, Vol 3, issue 1 pg no 35-40, 2018.
- **Mrs.Hemalatha Karnan and Mr.K.Karthick Babu** published a paper on “Segmentation of fused CT and MRI Images with Brain Tumor” in Asian Journal of Science & Application Technology, ISSN-22490698, vol 6, no.1, 2017, pp no.1-4.
- **Chellappan.M Lingadurai. K** “Characterization and Optimization of TIG welded super martensitic stainless steel using TOPSIS” , Materials today Proceedings (ELSEVIER) of the 5th International

Conference on Materials Processing and Characterization. P 2016.

- **Mrs.Hemalatha Karnan and Dr.D.Saraswathi** published a paper on “Blood hammer modeling analysis of coronary artery with vascular accusions using computational fluid dynamics methods” in an international conference, March 24, 2018.

- **Ms.B.Ashmitha and Ms.R.Dhivya,** ”Modeling of pelvic fracture implant by using MATLAB & Analysis”Selvam Engineering College, Namakal on 16,17 MAR 2018.

- **Chellappan.M Lingadurai. K** “Effect of heat input on mechanical and metallurgical properties of Gas Tungsten Arc Welded lean super martenstic stainless steel” . International Journal of Material Research, Volume 19, Number 3, P 2016.

List of colleges offering PG program:

➤ **PG courses for Biomedical engineering**

- IIT BOMBAY
- IIT MADRAS
- NIT ROURKELA
- NIT ALLAHBAD
- SRM UNIVERSITY, Chennai
- VIT UNIVERSITY, Vellore
- Anna University, Chennai
- Karunya university

➤ **PhD in Civil Engineering**

- Kalasalingam Academy of research and education, Virudhunagar.

- Kumaraguru College of Technology, Coimbatore.

- Hindustan Institute of technology and science, Chennai.

➤ **PhD in Computer Science**

- Adhiparasakthi Engineering college, Vellore.

- Dr.Mahalingam College of Engineering and Technology, Pollachi.

- Dr.MGR Educational Research Institute. Chennai.

➤ **PhD in Electronics and communication Engineering**

- Thiagarajar College of Engineering (TCE), Madurai.

- R.M.K. Engineering College, Thiruvallur, Tamil Nadu

- S.N.R Sons College, Coimbatore

➤ **PhD in Electrical and Electronics Engineering**

- Thiagarajar College of Engineering (TCE), Madurai.

- Adhiparasakthi Engineering college, Vellore Kongu Engineering College ,Erode

- Agni College of Technology-ACT, Chennai.

➤ **PhD in Mechanical Engineering**

- GKM College of engineering and technology, perungalathur.

- Dr.Mahalingam College of Engineering and Technology, Pollachi.

- Dr.MGR Educational Research Institute Chennai.