ACHIEVEMENTS BY EEE DEPARTMENT

- Received R & D grants from DST, AICTE, TNSCST and IEI.
- Patent filed by students and faculty members of EEE department in IPR Chennai.
- Students received cash prize in IIT PALS innoWAH
- Faculty members received certificates and top grades from NPTEL online courses
- Best Student Award received from IEI Kanchipuram
- Best Students Project award from IEEE, INAE (New Delhi)
- Students placed in various Core and IT companies
- Received Project fellowship from IISc, Bengaluru.

DEPARTMENT FACILITIES

NUMBER OF LABORATORIES AND SOPHISTICATED FACILITIES: 10 LABORATORIES + 2 PV FACILITIES

- Electrical Machines-I, Control and Instrumentation Laboratory
- Electrical Engineering and Electrical Machines-II Laboratory
- Power Electronics and Drives Laboratory
- Software Laboratory, Power System Simulation Laboratory
- Research and Development Cell
- Electronic Circuits, Analog and Digital Circuits Laboratory
- Engineering Practices and Electric Circuits Laboratory
- Measurements and Instrumentation, Microprocessors and Microcontrollers Laboratory
- Interdisciplinary Nano Research Centre.

NEW LABORATORIES CREATED

- Industrial Automation Laboratory
- Electrical Machines and Drives Laboratory
- Advanced Electrical Engineering Laboratory

SOLAR FACILITIES

- 35 KW Roof Top Solar PV Power Plant- SVCE
- 1 KW Solar PV Setup – EEE

PLACEMENT RECORD

	2019	2018	2017	2016	2015
% Placement	92.98	93.15	94.5	84.28	84
Total Companies visited	50	46	44	36	16
Core companies	06	07	10	06	02
IT Related Companies	44	39	34	30	14

LIST OF MAJOR COMPANIES VISITING SVCE

- L&T
- Tech Mahindra
- Tata Communications
- Vedanta Groups
- Amazon
- Adani ports
- Go Frugal Technologies
- Accenture
- CTS
- Infosys
- Zoho Corporation
- Think and Learn
- Temenos
- Embed UR

FUNDED PROJECTS RECEIVED

TOTAL GRANT RECEIVED: RS. 1 CRORE

ONGOING FUNDED PROJECTS :

1. DST FIST 2018: Augmenting Interdisciplinary Nano Research Centre, Rs. 80 Lakhs, 2019-2024.
2. AICTE MODROBS LAB Scheme, PLC Based Modernization of Electrical Machines, Rs.8.27 Lakhs, 2018-2020
3. AICTE - RPS Project Scheme, Micro - fabrication of monolithic TFT based DC - DC converter using low cost RF Sputtering, Rs. 11 Lakhs, 2019 - 2021

PUBLICATIONS

Activity	2018 - 19	2017 - 18	2016 - 17	2015 - 16	2014 - 15
Journal publication	23	29	10	24	27
Papers presented in international conferences	5	18	12	23	10
Papers presented in national conferences	2	3	8	6	5

NEW COURSES DEVELOPED for EEE

- Industrial Automation and Networking
- Industrial Automation Laboratory
- Electric Vehicles
- Fundamentals of Artificial Intelligence
- Nano Electronics
- Industrial Automation with Integrated Laboratory
- Nanotechnology

DST FIST SPONSORED - INTERDISCIPLINARY NANO RESEARCH CENTRE

- Indian Nanoelectronics User Program (INUP), Indian Institute of Science, Bengaluru.
- Microelectronics and MEMS, IIT Madras.
- Poseidon Solar Services Pvt. Ltd., Chennai.
- India Japan Lighting Ltd., Chennai.
- Centre for Nanoscience and Technology, Anna University, Chennai.
- Joint School of Nanoscience and Nanoengineering, North Carolina, USA.

INDUSTRY INSTITUTION INTERACTION (MoUs)

- Panickker Switchgear Pvt Ltd
- GLR Labs
- Amman wind systems
- Cognizant Technology Solutions
- Gemini communications Ltd
- M/s SPEL semiconductor, Chennai
- M/s VI Microsystems, Chennai
- M/s ARK Automation systems
- Thirumalai Chemicals Ltd. Thirumalai House, Mumbai-400022
- Southern petrochemical industries corporation, SPIC Nagar, Tuticorin-628005
- Manali Petro chemicals Ltd., Manali, Chennai - 68
- Tuticorin Alkali Chemicals and Fertilizers Ltd, Tuticorin-628005

SRI VENKATESWARA COLLEGE OF ENGINEERING
(AUTONOMOUS)

DST-FIST SPONSORED PG COLLEGE
AFFILIATED TO ANNA UNIVERSITY

Sriperumbudur Tk - 602 117, Tamil Nadu, India
www.svce.ac.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA)
Anna University Recognized Research Centre

INFORMATION BROCHURE FOR ADMISSION TO M.E. POWER ELECTRONICS & DRIVES

RESEARCH AREAS

Power Electronics and Drives

- Special Electrical Machines
- Renewable Energy – Solar & Wind
- Electric Vehicle Design
- Multilevel Inverters
- Power Electronics Converters
- Power Electronics Applications in Power Systems
- Power Quality Improvements
- Integration of Renewable Energy with Grid

Power System

- Soft Computing Techniques
- Reactive Power Compensation
- Flexible AC Transmission Systems
- Power System Restructuring
- Smart Grid & Micro Grid
- IoT Applications in Smart Grid

Digital Control

- VLSI
- Control System Design for Power Electronics
- Embedded Controllers
- Power Electronics Applications using DSP
- Robotics and Control, Industrial Automation

Nanotechnology

- Solar Cell Fabrication and Characterization
- Modeling and Fabrication of Thin Film Transistor and Photo Detectors
- MEMS for Power Electronics
- Fabrication of Integrated Power converters on Silicon
- Fabrication of Optoelectronic devices

SCHOLARSHIPS FOR PG STUDENTS

- Tuition fee (Rs.50,000/year) waiver for 30% of the students admitted on merit basis, if the Admitted strength = 50% of the sanctioned strength.
- AICTE - GATE Stipend of Rs.12,400 per month for students having valid GATE score from AICTE.
- Intramural Post Graduate Student Project Grant to carry out innovative projects in Power Electronics and Drives.
- Management Scholarships for tuition fees and assistance for books and instruments.
- Sponsorships for PG students to attend the National & International Conferences
- Sponsorship for PG students to file a patent in IPR.

ABOUT THE DEPARTMENT

The Department of EEE was started in the year 1994. The post graduate program (M.E) in Power Electronics and Drives was started in 2002 with a sanctioned strenth of 25. The Department has secured permanent affiliation with Anna University and ***Accredited for five years by NBA for the third consecutive time.*** The Department has well equipped state – of – the - art laboratories and recognized as a research centre by Anna University. The Department has well qualified and experienced faculty and staff members of proven ability and profound skills. There are 30 faculty members in the department, out of which 8 of them are PhD holders and 17 of them are pursing their PhD. More than 30 research scholars have registered to pursue their PhD in the department research centre.

ABOUT THE COLLEGE

Sri Venkateswara College of Engineering (SVCE), a premier self-financing engineering college was started in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college conducts 10 BE/B.Tech Degree Courses, 10 PG Courses in Engineering. 11 Research centers approved by Anna University cater to MS(by Research) and PhD Programmes. The courses are approved by AICTE and affiliated to Anna University, Chennai. The college attained autonomous status in 2016.

The college is accredited by **National Assessment and Accreditation Council (NAAC).** The college is certified by IRQS with ISO 9001:2015. The college offers education in engineering and allied disciplines through dissemination of knowledge, promotion of research, development of soft skills and entrepreneurship, for students' holistic growth. The college is situated in a serene environment about 37 kms from Chennai and situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur, in Kanchipuram district.

WHY POWER ELECTRONICS AND DRIVES COURSE AT SVCE

- State of the Art Research Facilities such as Power Electronics and Drives Laboratory to carry out research activities with advanced Softwares such as Matlab, PSCAD, PSIM, VisSim, Aupower, Labview etc.,
- Industrial Automation Laboratory with Professional Software like PLC – Siemens Delta, HMI – Delta Automation Studio.
- Highly qualified and dedicated faculty.
- Industry Standard Professional Softwares like, Pspice, Magnet, ETAP, MIPOWER, etc.,
- Recogonized Nodal Research Centre of Anna University to pursue Research.
- Interdisciplinary Centre for Nanotechnology.
- Motivating the students to receive financial grant from various funding agencies such as IEEE, IEI, INAE and TNSCST to carry out project work.
- Encouragement of students to publish their Research work in Reputed National and International Journals

- Motivating the students to participate in International Conferences in Foreign Countries. Funding will be provided to present their papers.
- Student Research Day conducted every year to appreciate innovative student's research projects.
- MoU with Industries to assist students to obtain Internship, Training and Placement.
- Opportunity to become an Entrepreneur through Entrepreneurship Development Cell under SVCE - EPIC incubation Scheme.

ADMISSION INFORMATION

ELIGIBILITY FOR M.E. POWER ELECTRONICS AND DRIVES

Minimum 50% marks or equivalent CGPA (under grading system) in BE / B.Tech (Electrical and Electronics / Electronics and Communication / Instrumentation and Control / Electronics and Instrumentation / Instrumentation / Electronics) can apply. Admissions are through Tamil Nadu Common Admissions (TANCET) by Anna University and Entrance Examination conducted by consortium for the Management seats.

ELIGIBILITY FOR Ph.D.

As per Anna University Guidelines.

For more information please contact:

Dr. KR. Santha, Ph.D.,
Vice Principal & Head of the Department,
Contact Number : 044-27152000 (Ext. 250, 251)
Email : hodee@svce.ac.in

FACULTY DETAILS

Dr. KR. Santha, Ph.D
Power Electronics Applications using DSP, VLSI Design, Asynchronous Circuits, Parallel Processing, Control Systems

Dr. N.K.Mohanty, Ph.D
Power Electronics Drives & Control, FACTS and Renewable Energy Systems

Dr. Sudhakar K Bharatan, Ph.D
Nanoelectronics, Flexible Electronics, miniaturized Power Converters & MEMS for Power Electronics

Dr. R. Karthikeyan, Ph.D
Finite Element Analysis & Special Electrical Machines

Dr. S G. BharathiDasan, Ph.D
Power Systems, Micro & Smart Grid, FACTS and Renewable Energy

Dr. C.Gopinath, Ph.D
Power Quality Improvements, Renewable Energy, Hybrid Electric Vehicles & IoT Applications in Smart Grid

Dr. M.Sankar, Ph.D
Battery Energy Storage, Power Quality, Renewable Energy & Intelligent Controllers

Dr. R. Kannadasan, Ph.D
Power Systems, High Voltage Engineering and Synthesis of Nanoparticles