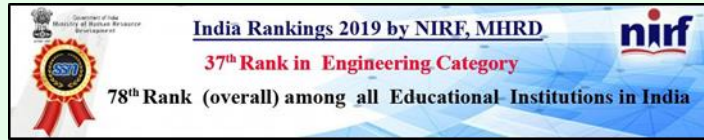




# SSN College of Engineering

(An Autonomous Institution - Affiliated to Anna University)



The SSN Trust was founded in 1994 by Dr. Shiv Nadar and (Late) Justice Pratap Singh, a judge of the Madras High Court. Justice Pratap Singh, a legal luminary, dedicated his life to a number of social causes that served the greater good of society.

The Trust has established the SSN College of Engineering (SSN CE) and the SSN School of Management (SSN SoM). The institutions are run on a not-for-profit basis, and aim to provide the highest quality educational and research facilities for meritorious students from all economic strata.

The SSN Institutions are ideally located on a sprawling 250 acre campus along the Old Mahabalipuram Road - known as the 'Cyber Corridor' of Chennai. The campus comprises aesthetically designed buildings amidst a scenic setting. The campus is fully wi-fi (wireless fidelity) enabled and has excellent infrastructure for learning - computer centres, modern workshops & labs, seminar halls and well-equipped libraries.

**For admissions, contact**  
[www.ssn.edu.in](http://www.ssn.edu.in)

<p><b>Campus</b>  <b>SSN Institutions</b>  Rajiv Gandhi Salai, Kalavakkam –  603110, Tamil Nadu, India,  <a href="mailto:info@ssn.edu.in">info@ssn.edu.in</a>  Phone: 044 - 27469700</p>	<p><b>Administrative Office</b>  <b>SSN Trust</b>  New No. 19, Old No. 8,  3<sup>rd</sup> Main Road, Kasthuribai Nagar,  Adyar, Chennai – 600020.  Phone: 044 – 2441 1656 / 2441 6474</p>	<p><b>Dept. of Placement &amp; Training</b>  Phone : 044 - 27469700  Extn : 259  <a href="mailto:placement@ssn.edu.in">placement@ssn.edu.in</a></p>
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## Department of Mechanical Engineering

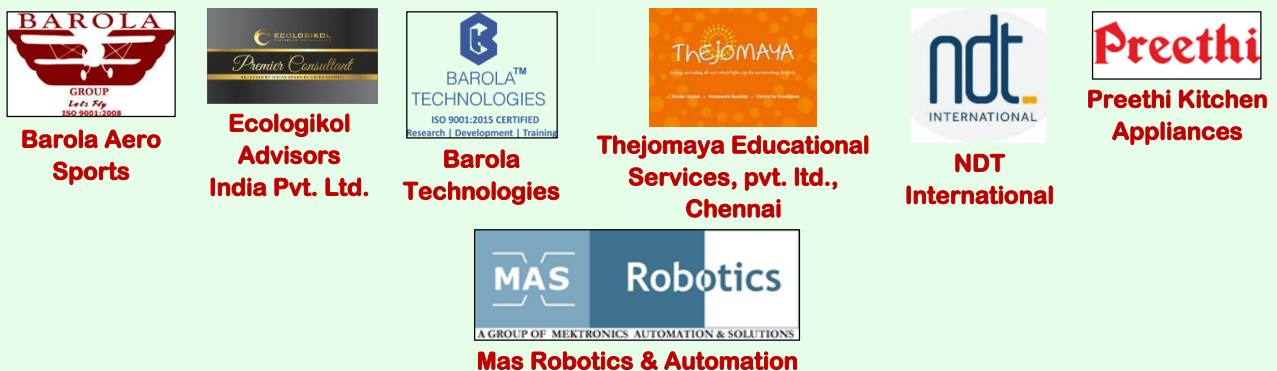


The department of Mechanical Engineering was established in the year 2007. The department offers B.E (Mechanical Engineering) from the academic year 2007 - 2008, M.E (Manufacturing Engineering) from the academic year 2012-2013 and M.E (Energy Engineering) from the academic year 2013 – 2014. The department became an approved research center of Anna University in the year 2012.

**Our alumnus are associated with the following MNCs and Universities.**



**Our MoU Partners** - The Department has signed MoU with several industries to conduct industry relevant R&D and internships for students.





# Department of Mechanical Engineering

Admission Open

## M.E - Energy Engineering

**M.E.in Energy Engineering** is a multidisciplinary program that aims to meet the current and growing challenge of dwindling fossil fuel resources and the critical demand for alternative, renewable energy sources as global priorities. The program covers fundamental engineering knowledge and skills in such areas as energy generation, conversion, electrical power systems and energy management along with modules on energy sources, energy policy, energy economics and associated environmental issues. The program will provide the student with necessary skills to develop as a professional engineer who specializes in dealing with the breadth of energy systems used to generate, convert, transmit and manage energy.



### Laboratory Facilities

- Energy Laboratory
- Thermal Systems Simulation Laboratory
- Thermal laboratory

### Major Sophisticated Equipment : M.E Energy Engineering



**RCCI Engine test facility**



**Steam Boiler-turbine unit**



**Bio mass gasifier**



**Refrigeration system**



**Air-conditioning system**



**Energy lab**

## Broad Areas of Research

- Energy conservation
- Solar Energy
- Alternate Fuels
- Thermal Energy Storage & Management
- Evaporative Cooling
- Refrigeration
- Computational Fluid Dynamics
- Heat Exchangers
- Emission Control
- Energy Auditing
- Green Buildings & Simulation



**Curriculum:** The curriculum for Energy Engineering comprises of the following core subjects:

- Incompressible and Compressible Flows
- Thermodynamic Analysis of Energy Systems
- Energy Conversion Techniques
- Energy Resources
- Advanced Numerical Methods
- Applied Heat Transfer
- Measurement and Control for Energy Systems
- Energy Conservation in Thermal Systems.



## Elective Courses

- Hydrogen and Fuel Cell Technologies
- Solar Energy Technologies
- Wind Energy Technologies
- Bio Energy Conversion Techniques
- Nuclear Engineering
- Computational Fluid Dynamics for Energy Systems
- Energy Systems Modeling and Analysis
- Design of Heat Exchangers
- Electrical Drives and Controls
- Power Generation, Transmission and Utilization
- Hybrid Electric Vehicles
- Design and Analysis of Turbomachines
- Energy Forecasting, Modeling and Project Management
- Energy Efficient Buildings
- Energy Conservation in Electrical Systems
- Nano materials for Energy Applications
- Advanced Power Plant Engineering
- Steam Generator Technology
- Fluidized Bed Systems
- Advanced Energy Storage Technologies
- Waste Management and Energy Recovery
- Environmental Engineering and Pollution Control
- Research Methodology

## Project Works

Phase - I (3<sup>rd</sup> Sem, 3 days/week)

Phase - II (full six months during 4<sup>th</sup> Sem)



## Prominent Alumni (Indicative): Energy Engineering



**K.Vignesh**  
Senior Executive  
**Thermax Limited,**  
Chennai



**Febi Ponvin**  
Automation Test Engineer II  
**ARi global solutions**  
(Deployed in Caterpillar Inc)



**Kumarrathinam K**  
Mechanical Engineer  
**Evoqua Water Technologies**  
India Pvt. Ltd, Chennai



**Kannan J**  
Assistant Manager  
**HI-Tech Arai Ltd**  
Madurai – 625002.



**Sivaram PM**  
**PhD – NIT Trichy**  
Area : Solar Energy system,  
CFD



**Tamilselvan P**  
PhD - School of Energy and  
Power Engineering,  
**Jiangsu University, China.**



**Kavinaya A**  
Scholasy - Avanti  
Educational institute,  
**Al wakrah, Doha,** State of  
Qatar.



**Janani**  
Assistant Manager  
**Hyundai Motor India Ltd,**  
Irungatukottai, Chennai



**Kannan V**  
Engineer, Technical Support  
**GE T&D India Ltd,**  
Chennai.