Sri Sivasubramaniya Nadar College of Engineering

(An Autonomous Institution - Affiliated to Anna University)

NIRF 2020 RANKING - 44TH IN ENGINEERING STREAM

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 (SSNCE) 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

Campus	Administrative Office	Career Development Centre (CDC)
SSN Institutions Rajiv Gandhi Salai, Kalavakkam – 603110, Tamil Nadu, India, info@ssn.edu.in Phone: 044 - 27469700	SSN Trust New No. 19, Old No. 8, 3rd Main Road, Kasthuribai Nagar, Adyar, Chennai – 600020. Phone: 044 – 2441 1656 / 2441 6474	Phone : 044 - 27469700 Extn : 259 cdc@ssn.edu.in

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.

THERMAX, Infosys, Cognizant, Sundram Fasteners Limited, ENMAS, TVS TYRES, CTS, TATA CONSULTANCY SERVICES, Danfoss, HI-TECH ARAI LIMITED, evoqua WATER TECHNOLOGIES, HYUNDAI

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

- Barola Aero Sports
- Ecologikol Advisors India Pvt. Ltd.
- Barola Technologies
- Thejomaya Educational Services, pvt. ltd., Chennai
- NDT International
- Preethi Kitchen Appliances
- Mas Robotics & Automation

Department of Mechanical Engineering

Admissions Open

M.E. - Manufacturing Engineering

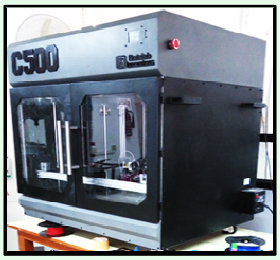
M.E. in Manufacturing Engineering is an advanced level course that aims to bridge the knowledge gap between the manufacturing industry and the academia through need of the hour courses such as Additive Manufacturing and Robot design and Programming with hands on experience on state of the art 3D printers and Robots, while also catering to the growing demands in MEMS, Nanotechnology and Composites.

The Program seeks to establish a balance between Industry readiness and Research progress by encouraging the students to indulge in academic research in cutting edge areas of Welding, Composite material processing and Numerical modelling through hand held pedagogy, whose outcomes can be envisaged from their impactful journal publications and their passion to pursue a PhD.

Laboratory Facilities

- Computer Integrated Manufacturing Laboratory
- Automation Laboratory
- CAD / CAM Laboratory
- Computer Aided Simulation and Analysis Laboratory
- Metrology Laboratory
- Workshop with CNC facilities
- Robotics Laboratory

Major Sophisticated Facilities/Equipments: M.E. - Manufacturing Engineering



3D Printing machine

CNC Milling Machine

CNC Turning Machine

CAD/CAM lab

Electro Pneumatic Trainer

Pneumatic trainer kit

Hydraulic Press (20T)

Sheet Rolling Machine

Broad Areas of Research

- Friction Stir welding
- Composite Materials
- Finite Element Method
- Impact dynamics
- Unconventional Machining
- Additive Manufacturing
- Tribology

FSW Machine

Curriculum

The curriculum for Manufacturing Engineering comprises of the following core subjects:

- Advances in Manufacturing Technology
- Computer Integrated Manufacturing Systems
- Advances in Casting and Welding
- Robot Design and Programming
- Optimization Techniques in Manufacturing
- Advances in Metrology and Inspection
- Theory of Metal Forming
- Additive Manufacturing

Electives: The following are some of the electives offered

- Design for Manufacture and Assembly
- Micro Manufacturing
- Metal Cutting Theory and Practice
- Machine Tool Control & Condition Monitoring
- Green manufacturing Practices
- Non-Destructive Evaluation
- Polymers and Composite Materials
- Lean Manufacturing
- MEMS and Nanotechnology
- Computer Aided Product Design
- Machine Vision
- Materials Testing and Characterization Techniques
- Fuzzy Logic and Neural Networks
- Smart materials and structures

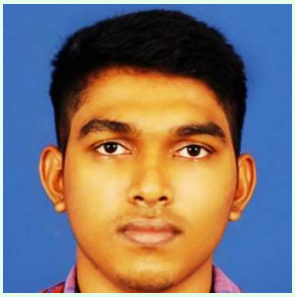
Two projects, Phase 1 and Phase 2 are done in the final two semesters.

Prominent Alumni :M.E. - Manufacturing Engg.

Saranarayanan R
Postdoc fellow
University of Manchester

M. SibiVarshan
Business Process Expert
Wavin Group,
Central Region, Denmark

Naadesh
Post Graduate Engg
Trainee
YSI Automotive Pvt Ltd



Earnest Beni
Buisness development
Associate at **BYJU'S**
(Think & Learn Pvt. Ltd.)

Dr. Santosh Sampath
Completed Ph. D.
IIT Madras

Sathish Kumar P
Honeywell Technology
Solutions lab

Hima Bindhu M
Ford, Chennai

Jobin Babu
Senior Analyst at
FLEXKollam, Kerela

Mathesh K S
Process Engineer in
Natronix at Chennai

PLACEMENTS & INTERNSHIPS

(Manf. Engg.)

Short List of Companies Visited for Campus Placements/Internships

- Ford
- Danfoss
- Hyundai
- ESAB
- Lucas TVS
- TVS Tyres
- SVP Lasers
- Turboenergy (TVS)
- Brakes India (Sholingur)
- Preethi Kitchen Appliances (Philips India) Ltd.
- Vestas
- Zoho
- Thorogood
- CTS
- Infosys
- TCS