

Open House
for
M.E. Manufacturing Engineering
Program

Department of Mechanical Engineering



Aim and Purpose of Manufacturing Engineering

- A Masters in Manufacturing Engineering will provide you with a detailed understanding of each level of the manufacturing process, combining skills in mathematics, science and business to develop innovative ways of designing systems and processes, and teaching to keep pace with this ever-changing industry.
- The main aim of the course is to develop students' knowledge in improving the quality and efficiency of the manufacturing systems.
- It overlaps with other engineering specialization such as Production, Design, Industrial, Mechatronics and Material science as it falls under multi disciplinary in Mechanical Engineering.
- Manufacturing Engineering research focuses on the design and development of manufacturing systems, processes, machines, tools and equipment which drive the forward changes in the lives of individuals and societies, across the globe.

Role of Manufacturing Engineers

- Manufacturing Engineers focus on the design, development and operation of integrated systems in production to obtain high quality & economically competitive products.
- To Combine Mechanical Engineering, Mechatronics, Material Engineering and Industrial Engineering





Industry 4.0



3D Printing



3D modelling of CAPP



Robotic Welding





Assembly Line



Additive Manufacturing



Material Handling



Materials



Skills and Qualifications Acquired as Manufacturing Engineer

1. Procedures
2. Continuous Improvement
3. CAD
4. Process Control
5. Product Quality
6. Project Management
7. Six Sigma

8. Customer Requirements
9. Solid works and 3D Modelling
10. Production Processes
11. Statistical and Soft Computing
12. Engineering Design
13. Automation

General Skills and Qualifications Acquired as Manufacturing Engineer

- ❖ Ability to work well under pressure.
- ❖ Leadership **skills**.
- ❖ Teamwork **skills**.
- ❖ Problem-solving **skills**.
- ❖ Good information technology **skills**.
- ❖ Commercial awareness.
- ❖ Excellent communication **skills**.
- ❖ Knowledge of equipment for purchase, installation and repair.



Why Manufacturing Engineering in SSN

- ❖ Management
- ❖ Ambience towards Learning
- ❖ Faculty
- ❖ Research Culture
- ❖ Infra structure



Management



Dr. Shiv Nadar
Founder HCL & Shiv Nadar Foundation

- Started SSN College of Engineering to give back to the society in the field of Education
- To inspire the new generation to scale to their ambitions



Scholarships for Admission

For GATE candidates (in addition to AICTE stipend):

- ❖ Rs.1,00,000 scholarship for 90 & above percentile
- ❖ Rs.75,000 scholarship for 80 to 89 percentile

Walk-in Walk-out scholarships: 100% scholarships:

- ❖ For university rank holders in B.E/B.Tech

Means Scholarship

- ❖ 50% tuition fee waiver for the selected students with family annual income less than Rs 3 lakh

Rank holders Scholarship

- ❖ 50% tuition fee waiver for the first rank holders of respective B.E / B.Tech colleges

FEE Structure

Year 2020-21	Type of Admission	Tuition Fees (Rs.)	Hostel Admn. fees (Non-refundable), Hostel & Mess Caution Deposit (Rs.)	Special Fees (Rs.)	Caution Deposit (Rs.)	Hostel Rent (Rs.)	Total (Rs.)
I ME./ M.Tech.	Non Accredited course M.E. Manufacturing Engg.	50,000	20,000	36,000	5,000	82,000	193,000

S.No.	Type of Rooms	Rent Amount (Rs.)
1	Single Room Without attached Toilet	82,000
2	Single Room With attached Toilet	115,000
3	Air conditioned Single room without attached Toilet (Electricity as per actuals will be charged extra)	150,000
4	Air conditioned Single room with attached Toilet (Electricity as per actuals will be charged extra)	175,000



Faculty



✔ Dr. Alphin



✔ Dr. MSelvaraj



✔ Dr. MSuresh



✔ Dr. Santosh



✔ Dr. AK
Lakshminarayanan



✔ Dr. ASRamana



✔ Dr. BANandRonald



✔ Dr. DANanthapadmanaban



✔ Dr. GSatheeshkumar



✔ Dr. GSelvakumar



✔ Dr. KBabu



✔ Dr. KJayakumar



✔ Dr. KLHarikrishna



✔ Dr. koteswararao



✔ Dr. KRajkumar



✔ Dr. KSJayakumar



✔ Dr. KSVijaysekar



✔ Dr. LPoovazhagan



✔ Dr. MDhananchezian



✔ Dr. MNallaMohd



✔ Dr. NLakshminarashimhan



✔ Dr. RDamodaram



✔ Dr. RP



✔ Dr. RRajeswari



✔ Dr. SRajkumar



✔ Dr. SSureshkumar



✔ Dr. VEAnnamalai_pp_s



✔ Dr. VijayanS



✔ Dr. VimalSamSingh



✔ Mr. CARunprasath



✔ Mr. DEbenazer



✔ Mr. JaykrishnanB

Research Credentials of the Department

SCI Journals

- 300 +

Patents

- 21

External Funded Project

- 4 Crores

Internal Funded Project

- 1.33Crore

No of PhD Awarded

- 27

No of Research Scholars

- 125

Research Credentials of the Department



SSN Mechanical Engineering

FOLLOW

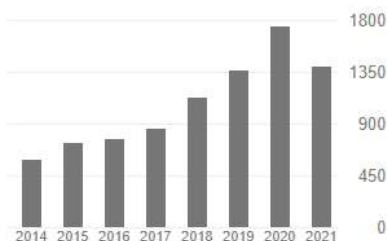
Sri Sivasubramaniya Nadar College of Engineering
Verified email at ssn.edu.in - [Homepage](#)

Manufacturing Engineering Welding Thermal Engineering Design Composites

TITLE	CITED BY	YEAR
Experimental investigation on a combined sensible and latent heat storage system integrated with constant/varying (solar) heat sources N Nallusamy, S Sampath, R Velraj Renewable energy 32 (7), 1206-1227	335	2007
Process parameters optimization for friction stir welding of RDE-40 aluminium alloy using Taguchi technique AK Lakshminarayanan, V Balasubramanian Transactions of Nonferrous Metals Society of China 18 (3), 548-554	308	2008
Effect of welding processes on tensile properties of AA6061 aluminium alloy joints AK Lakshminarayanan, V Balasubramanian, K Elangovan The International Journal of Advanced Manufacturing Technology 40 (3-4), 286-296	305	2009
Review of solar cooling methods and thermal storage options LA Chidambaram, AS Ramana, G Kamaraj, R Velraj Renewable and sustainable energy reviews 15 (6), 3220-3228	258	2011
Friction stir welding of dissimilar aluminum alloys AA2219 to AA5083—Optimization of process parameters using Taguchi technique M Koiraj, V Sundareswaran, S Vijayan, SRK Rao Materials & Design 42, 1-7	249	2012
Comparison of RSM with ANN in predicting tensile strength of friction stir welded AA7039 aluminium alloy joints AK Lakshminarayanan, V Balasubramanian Transactions of Nonferrous Metals Society of China 19 (1), 9-18	230	2009
Cryogenic turning of the Ti-6Al-4V alloy with modified cutting tool inserts M Dhananchezian, MP Kumar Cryogenics 51 (1), 34-40	209	2011
Microwave sintering of copper-graphite composites K Rajkumar, S Aravindan Journal of Materials Processing Technology 209 (15-16), 5601-5605	189	2009
Tribological performance of microwave sintered copper-TiC-graphite hybrid composites K Rajkumar, S Aravindan	185	2011

Cited by VIEW ALL

	All	Since 2016
Citations	10020	7298
h-index	48	40
i10-index	206	179



Co-authors VIEW ALL

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- Dr M Suresh >



Infra structure and Research Facility



**Ultrasonic assisted stir casting
Equipment**



Wire cut EDM



Hydraulic Press

Infra structure and Research Facility



3 D Printer



CNC Milling machine



Friction Stir Welding Machine

Infra structure and Research Facility



TIG Welding Machine



Automated Linear Carriage



Optical Microscope

Infra structure and Research Facility



Tensile Testing Machine



Hot Indentation Creep Machine



Stress Corrosion testing



Pin on Disc

Facilities

- 300 Acre Campus
- Wi-Fi enabled campus
- Digital Library
- 1000 seated world class air conditioned auditorium
- 300 seated mini air conditioned auditorium
- 350 seated Central air conditioned seminar hall
- Open air theatre
- World class cricket ground
- World class football stadium
- Synthetic Tennis Court
- Indoor stadium



Facilities -Sports



Facilities - Hostel



Internship Partners



Barola Aero Sports



Ecologikol Advisors India Pvt. Ltd.



Barola Technologies



Thejomaya Educational Services, pvt. Ltd., Chennai



NDT International



Preethi Kitchen Appliances



Mas Robotics & Automation



Prominent Alumni



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IIT Madras



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Rajalakshmi Engineering
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Placement partners



FEEDBACK AND QUERRIES



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