



You Choose, We Do It
St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119



DEPARTMENT OF MECHANICAL ENGINEERING

The Department

Counselling Code:
1317

- ✓ Faculty members having an **average experience** of about **13 years**
- ✓ Department est. in the year **1998**, Accredited by **NBA since 2007**
- ✓ **180** student intake in Bachelor Degree
- ✓ **Gold medal** in 2020, **silver** in 2021 totalling **118** University ranks
- ✓ 3 Innovative students project awards (**INAE awards**)
- ✓ Recognized as a **Research Centre** by Anna University
- ✓ **303** journal publications
- ✓ Received **Rs. 1,63,74,265/- funding** for Research projects
- ✓ **8 Memorandum of Understanding** (MOU) with reputed industries

Notable achievements

FIST Program 2023

-71 lakh INR Sustainable Nano Materials Development for Futuristic Applications by Department of Science and Technology, Government of India, New Delhi

SERB Seminar & Workshop Grant

-1.8 Lakh from Department of Science and Technology, Government of India, New Delhi
-Adopting IoT For Manufacturing Sector: Impact and Applications
- Progress in Research on Armored Fire Retardant Hybrid Composite

Good placements lead to National Employability Award

- for providing employability, awarded by Aspiring Minds since 2017



We offer:

B.E. in Mechanical Engineering
Ph.D. in Mechanical Engineering



Advanced Lab facilities

Spacious laboratories

In-depth practical training

Taught to meet industry need

Research facilities reachable to all

More laboratory sessions

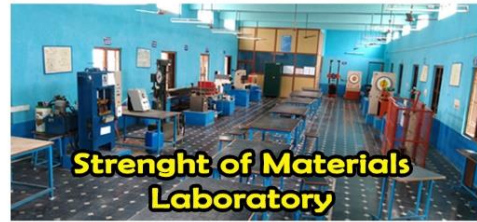
Trained to feel confident enough



Basic Workshop



Thermal Laboratory



Strength of Materials Laboratory



Fluid Mechanics Laboratory



Computerized UTM Machine



Mechatronics Laboratory



CAD CAM Laboratory



Machine Shop



Metrology & Measurements Laboratory

Lab infrastructure & Research Facilities



Computerized IC Engine



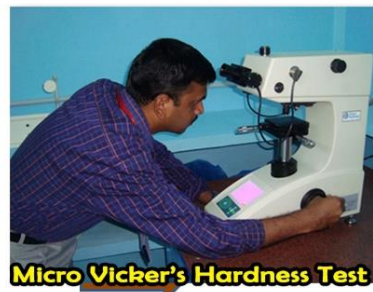
Exhaust Gas Analyzer



Video measuring Machine



Deep hole Drilling Machine



Micro Vicker's Hardness Test



Inverted Metallurgical Microscope

Patent in 2021-23

Awarded

2

Published

25

High impact factor Publications:

- Mr. V. Ashok Kumar, Dr. S. Arivazhagan, Mr. K. Muninathan
Impact factor: **8.907**; Elsevier
- Dr. T. Gavaskar, Dr. K. Arun, Dr. S. Arivazhagan
Impact factor: **8.857**; Elsevier
- Dr. G. M. Lionus Leo - Impact factor : **7.926**; Elsevier
- Mr. M. Ganesh - Impact factor: **6.633**; Elsevier
- Dr. K. Arun - Impact factor: **4.987**; Springer
- Mr. M. Subramanian - Impact factor: **4.987**; Springer
- Dr. N. Arunkumar, Mrs. N. Prasanaa Iyer
Impact factor: **4.614**; Taylor & Francis
- Dr. N. Arunkumar, Mr. M. Ganesh
Impact factor: **4.614**; Taylor & Francis
- Dr. N. E. Arun Kumar, Mr. N. Sathishkumar
Impact factor: **4.614**; Taylor & Francis

International Conference



February 2020 International Conference on TECHNOLOGICAL ADVANCEMENTS IN MATERIALS, DESIGN, MANUFACTURING AND ENERGY SECTORS

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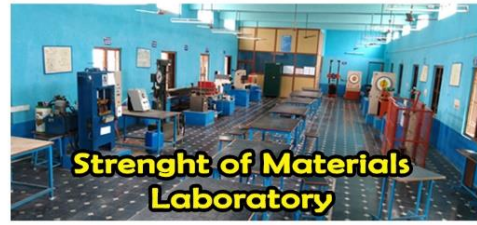
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- Mr. V. Ashok Kumar, Dr. S. Arivazhagan, Mr. K. Muninathan
Impact factor: **6.583**; Elsevier
- Dr. K. Arun - Impact factor: **4.987**; Springer
Mr. M. Subramanian - Impact factor: **4.987**; Springer
- Dr. N. Arunkumar, Mrs. N. Prasanaa Iyer
Impact factor: **4.614**; Taylor & Francis
- Dr. N. Arunkumar, Mr. M. Ganesh
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More with



Butterfly®
Good for a lifetime



RK Microns
Nextgen Innovation with Intelligence

Gemini
Gemini Cooling Systems
t.Limited.,



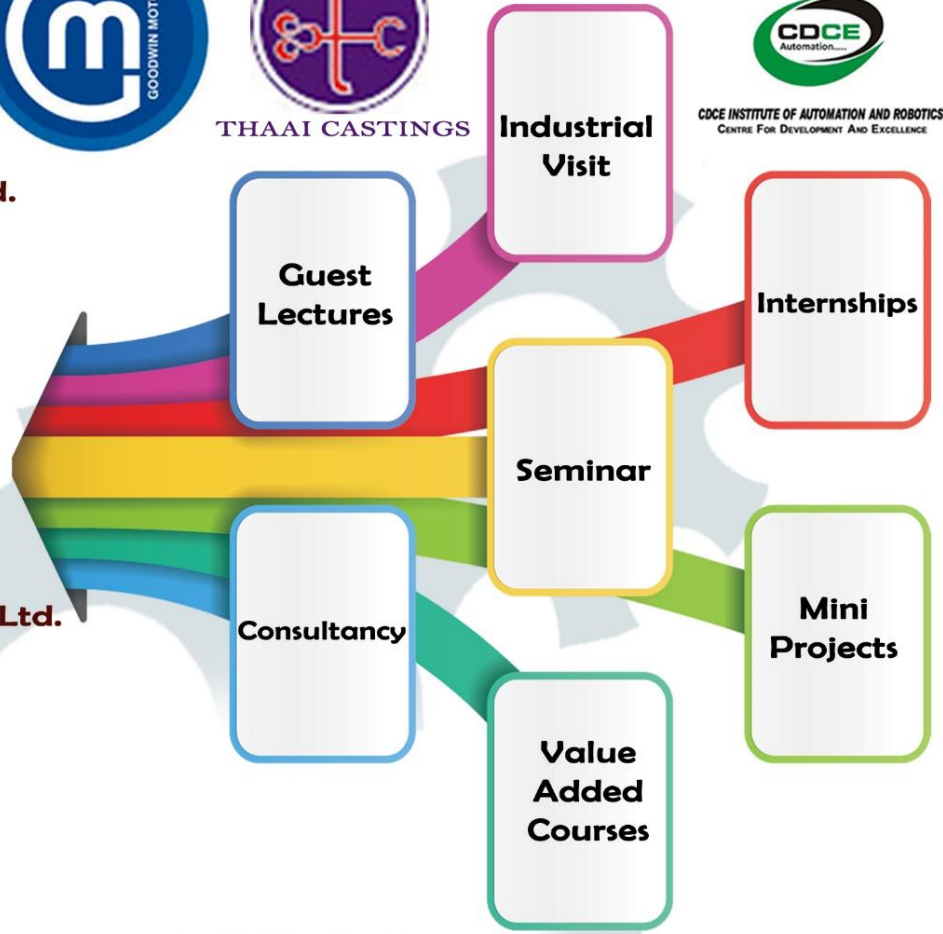
Udvavisk

TRS THIRUMALA
ROOFINGS &
STRUCTURALS



CDCE INSTITUTE OF AUTOMATION AND ROBOTICS
CENTRE FOR DEVELOPMENT AND EXCELLENCE

- Butterfly Gandhimathi Appliances Ltd.
- Thirumala Roofing & Structural
- CDCE Automation and Robotics
- Goodwin Motors
- Thaai Casting
- R. K. Microns
- Udvavisk Technologies Pvt. Ltd.
- Gemini Cooling Systems Projects Pvt. Ltd.



Training Partners

aspiringminds
Employability Quantified

MYSLATE

SkillRack

SMART®
TRAINING RESOURCES INDIA PVT LTD
India's Largest Career Development Company

T.I.M.E.
Triumphant Institute of
Management Education Pvt. Ltd.
we care for your career

Students' Triumph

MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं माध्यम उद्यम



Venkatesh Babu R. & Sandeep Nivas E.

Grant of Rs. 14,00,000

MSME Idea Hackathon 2022



Mega Challenge Winners (Engineering)

Our Students won First Prize in Fusion 360 Mega Challenge, Conducted between all Engineering Colleges in Tamilnadu under Naan Mudhalvan Scheme.

Sl.No	Group ID	Name	College	Position
1	5071	Jayanthan S N Navin Sales Michael J Nandha Kishore K	ST. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI	Winner

Students Support

St. Joseph's Defence Officers Academy

Defence academy aims to develop our students competitive spirit along with strong academic base with quality teaching and individual attention. The academy organizes seminars and workshops with the help of defence officers and experts in soft skills to train the defence aspirants to think, feel and express like defence officer.



St. Joseph's Civil Service Academy

It aims to produce able bureaucrats who would act as beacon of lights for the welfare of the society, this academy have systematic plans to make the toughest journey for preparing Civil services exam with several challenges into an achievable goal to students.

Social Outreach Activities

St. Joseph's has committed to help homes for the aged people, children suffering with cerebral palsy and orphanages through St. Joseph's Vidivelli, a non-governmental organisation. During the past seven academic years more than 100 NGOs, including 80 orphanages, 15 old age homes and 10 CP children homes in and around chennai have been visited by our students.



Professional Activities



Symposia

01

IWS



ISHRAE

02

03

SAE



Standards Club

04

Intra department symposium

Students participate the events conducted to nurture the talents competing within the department to find the spark and to bring out their talents

Inter College symposium

Students from various colleges take part in the co-curricular and technical competitions organized and co-ordinated by our students. The winners are awarded with cash prize and certificate by college.



Guest Lectures
Industrial Visits
Workshops
Quiz
MBAJA
EBAJA
SUPRA

Recent Industrial Visits

- Neyveli Lignite Corporation
- IGCAR, Kalpakkam
- MAPS, Kancheepuram
- Bhavani, Kalpakkam
- Ashok Leyland
- WRI- Trichy
- Hyundai- Sriperumbudur
- IGP- Thiruporur
- Cheyyar Co-operave Society- Kancheepuram Dt .
- Sri Akila Casting Pvt. Ltd. - Maraimalainagar



Internships

Our students bridge the gap between academic curriculum and industry needs by gathering experience through internship and inplant training in companies such as:

Ashok Leyland, Ford, NLC, Hyundai, BMW, , Renault Nissan, IIAP-Banglore

No. of students got placed in past academic years



2022-23 **103/179**
As of 28.04.2023

2021-22 **151/191**

2020-21 **177/221**

2019-20 **192/239**

2018-19 **179/223**

Some of the current batch (2019-2023) Students' Placements:

Aswin Raj A **9.5 Lakh/Annum**
(312319114026) **JSW Steel**

Vigneshwar R. **8.4 Lakh/Annum**
(312319114153) **ZOHO Corporation**

Tejhasree S. **6.1 Lakh/Annum**
(312319114144) **Technip Energies**

Saai Sathish P. K. **6 Lakh/Annum**
(312319114112) **Bosch Engineering**

Anderws Emerald J. S. **6 Lakh/Annum**
(312319114013) **SPIC**
Pradeep Kumar C.
(312318114122)

Aswin Vignesh C. **6 Lakh/Annum**
(312319114025) **Sopra Steria**
Harikrishnan K.
(312319114055)
Tharun Kumar S.
(312319114148)

Akshiv S. **6 Lakh/Annum**
(312319114008) **Keyence Technologies**

Semester-wise Placement Support

- 1 Communication skill enhancement
- 2 Aptitude crash course
- 3 BEC Training
- 4 C Programming
- 5 Department specific Value Added Course, Product Batch Training
- 6 Data structures, Product Batch Training, AMCAT Assesment I
- 7 Placement online test, Placement orientation programme II, III, Data structures & algorithm, CODE fit training, CoCubes online Assesment I,II

Our Major Recruiters



Recent Design Events & Motorsport Winners



**2022-SAE MBAJA
Indore, M.P.**



**2022- Mega ATV
Goa, Maharashtra**



**2020-SAE MBAJA
Shot at Endurance**



**2020-SAE MBAJA
at Punjab**



**2020-SAE EBAJA
at Indore**



Nirmal USB, winner at various national level racing events



**2020-FMSCI Award
won by Nirmal USB**

INAE Innovative Project Awards



भारतीय राष्ट्रीय इंजीनियरिंग अकादमी (आईएनएई)
Indian National Academy of Engineering (INAE)



**2009-Rotary Valve Engine
with Cam Assembly**



**2015-Design and Development
of 3D Printer**



2011-Multi-purpose Air conditioner

Higher Studies in India and Abroad

With the aid of Advisory Bureau of Higher Studies (ABHS) in our campus many students opt to pursue studies in reputed overseas universities. Some of the notable universities our alumni have chosen in recent times are:

1. Western University, London
2. Lamar University, U.S
3. University of Leicester, U.K
4. Clemson University, U.S
5. Northumbria of University, London
6. Technical University of Chemnitz, Germany
7. Karlsruhe University of Applied Sciences, Germany
8. University Of Wollongong, Australia
9. Nanyang Technological University, Singapore
10. University Of Auckland, NewZealand



Students opted Higher Studies:



Elite Alumni



Senthilkumar Veerappan
(1998-2002 Batch)
Manager
Vehicle Engineering
International Market Group
Ford Motor Company,
Chennai



Murali Krishna Sathya Narayanan
(2005-2009 Batch)
Program Coordinator
Body Structures, Volvo Cars,
Hisings Backa,
Västra Götaland County, Sweden



Harikeshan Ramakrishnan
(2006-2010 Batch)
Area Manager
Blue Star limited
Visakhapatnam,
Andhra Pradesh, India



Sivashanmugam Kumaresan
(2006-2010 Batch)
Managing Partner
Rishaba Industries LLP.,
Butterfly Gandhimathi
-Appliances Ltd.



Ashwini Boopathy
(2007-2011Batch)
Pipeline Mgmt. Executive
BMW Group
Chennai
Tamil Nadu



Surya Narayanan Panneerselvam
(2007-2011 Batch)
Co-Founder at Skill-lync,
Chennai,
Formerly at Cummins Inc.
Stoughton, Wisconsin



Pradeep Venugopal
(2004-2008 Batch)
Consultant,
IHI Corporation,
Chennai,
India



Alan Kevin
(2006-2010 Batch)
Production Manager
Chinatool Shenzhen City,
Guangdong,
China



Ajay Balaji Dandapani
(2011-2014 Batch)
German KYC Senior Analyst
Deutsche Bank Operations
International Bengaluru,
Karnataka



Varun Kalyanasundaram
(2008-2011 Batch)
Director,
Polimer Media Pvt Ltd
Chennai,
India



Dr. Samuel Milton
(2006-2010 Batch)
Project Engineer
Advanced Manufacturing
Siris Hasselt, Flanders,
Belgium



Srivathsan Narasimhan
(2008-2012 Batch)
Advanced Thermofluids Engineer
(Systems Design),
Rolls-Royce India Private
Limited, Bangalore



Manju Catherine Pothan
(2004-2008 Batch)
Designer,
Usability & Product development,
Philips Research,
Bengaluru



Dr. J. Naveen
(2006-2010 Batch)
School of Mechanical Sciences
VIT University ,
Vellore



Gowtham Raj
(2010-2014 Batch)
Senior Engineer,
Mercedes-Benz Research
and Development
Krishnagiri, Tamil Nadu



Joses Samuel Sastrigal
(2015-2019 Batch)
Technical Illustrator,
BOEING,
Chennai



M. Rajaram
(2015-2019 Batch)
Proprietor,
Rudram Poly Plast Pvt. Ltd.
Chennai



Manoj Kumar Easwaran
(2009-2013 Batch)
Business Analyst,
Schneider Electric,
Franklin, Tennessee, USA



Karthik Ravishankar
(2012-2016 Batch)
Business Analytics Engineer,
California, USA



Balaji Chandrakanth
(2008-2012 Batch)
Senior Scientist,
CSIR, Durgapur



Saravana Kumar E.
(2014-2018 Batch)
Senior Engineer (Design),
Air Suspension Division,
Wheels India Limited,
Padi , Chennai



Brian Kennedy
(2013-2017 Batch)
Senior Consultant,
Pricewaterhouse Coopers,
Chennai



Hareesh Raman
(2014-2018 Batch)
Customs Inspector,
Chennai



Nived Cion
(2016-2020 Batch)
Associate Engineer,
L&T Technology Services,
Chennai

Future Scope for Mechanical Engineering

In these times of new industrial revolution called "**Industry 4.0 and Industry 5.0**", there is integration of various disciplines of Engineering, With the rapid industrial growth, the demand and need for **Mechanical Engineers** are there in the following fields:

- Power Sector
- Automobile Sector
- Manufacturing
- Industrial Automation and Robotics
- Oil and Gas
- Process Industries
- Information Technology





St. Joseph's College of Engineering

VISION

To become a world class Educational center of the Nation for Engineering, Technology, Computer Applications and Management with moral and professional standards to serve the community at large.

MISSION

To achieve academic excellence in Engineering, Technology, Computer Application and Management Education.

To inculcate high moral and professional standards among our students.

To develop the overall personality of our students.

To promote Industry Institute Interaction through more number of collaborative programs with Industries, Research and Development centers.

To venture for sustained placement for our students through campus interviews.

St. Joseph's

with a current total intake of more than 1570 students per year.

- ✓ Since inception, St. Joseph's College of Engineering is consistently placed among the Top 10 institutions in terms of number of ranks. So far 1541 ranks including 57 Gold medals and 55 Silver medals have been secured by students. The college has been in 1st Place in terms of highest numbers of Anna University ranks, 4 times.
- ✓ The College is continuously being ranked by in National Institutional Ranking Framework (NIRF) since 2017.
- ✓ Our institution is ranked in 'Elite Band' at National level Atal Ranking of Institutional Innovations and Achievement (ARIIA - 2021).
- ✓ Accredited with A+ grade by securing 3.46 on a scale of 4.00 by National Assessment and Accreditation Council (NAAC).
- ✓ 9 departments are recognised as 'Research Centres' by Anna University to Ph.D.
- ✓ Recognition as 'Scientific and Industrial Research Organisation' (SIRO) since 2014 by DSIR, Government of India.
- ✓ The college is having a good number of research publications with a h-Index of 57 in Scopus and 51 in Web of Science index.
- ✓ Recognised as the 'Best Exam Preparatory Centre' for conducting Business English Certificate (BEC) examination by Cambridge ESOL for the past eight years in India & one among 25 South Asia Best Preparatory Centres.
- ✓ 45 Sponsored Research Projects of worth Rs. 2.83 Crores and 40 Faculty Training Programs worth of 54 lakhs funded by AICTE, NRB, DST, SERB, DBT, NRDMS, TNSCST & Anna University etc., have been carried out by staff members.
- ✓ Received FIST grant of Rs. 71 Lakhs from Department of Science and Technology, Government of India.
- ✓ 21 INAE Innovative Student Project Awards were bagged by our students for their innovative final year projects.
- ✓ Selected under the National level "Unnat Bharath Aayan Programme" by MHRD Government of India and Skill and Personality Development programme Centre (SPDP) for SC/ST by AICTE, New Delhi.
- ✓ Secured 86th rank by Internshala Annual Ranking 2022.
- ✓ Received a grant of Rs. 17 lakhs grant under PMKVY program.
- ✓ Won First AICTE-ECI Chatra Viswakarma award in 2017 as a Best Institute at National level.
- ✓ Won 1st position in "Utkrisht Sansthan Vishwakarma Award", 2020 by All India Council for Technical Education (AICTE) in association with Ministry of Human Resource and Development (MHRD).
- ✓ Secured AICTE-Lilavathy awards in 2021 and 2022 : Winner under the stream of Women Security, Runner under Hygiene and Sanitation themes in 2021 and Runner in Women Empowerment 2022.
- ✓ College has secured 4.5-star rating for the activities carried out in the campus by Institution's Innovation Council (IIC). In 2022 the college has received 3 projects for incubation worth of Rs. 45,00,000 by MSME, MOE, Government of India
- ✓ Consistently our students are securing winning positions in National level Innovative idea implementation competitions such as AICTE Smart India Hackathon in Hardware and software, Toycathon, Mapathon etc.
- ✓ Consistently awarded "National Employability Award" every year since 2017 by Aspiring Minds.