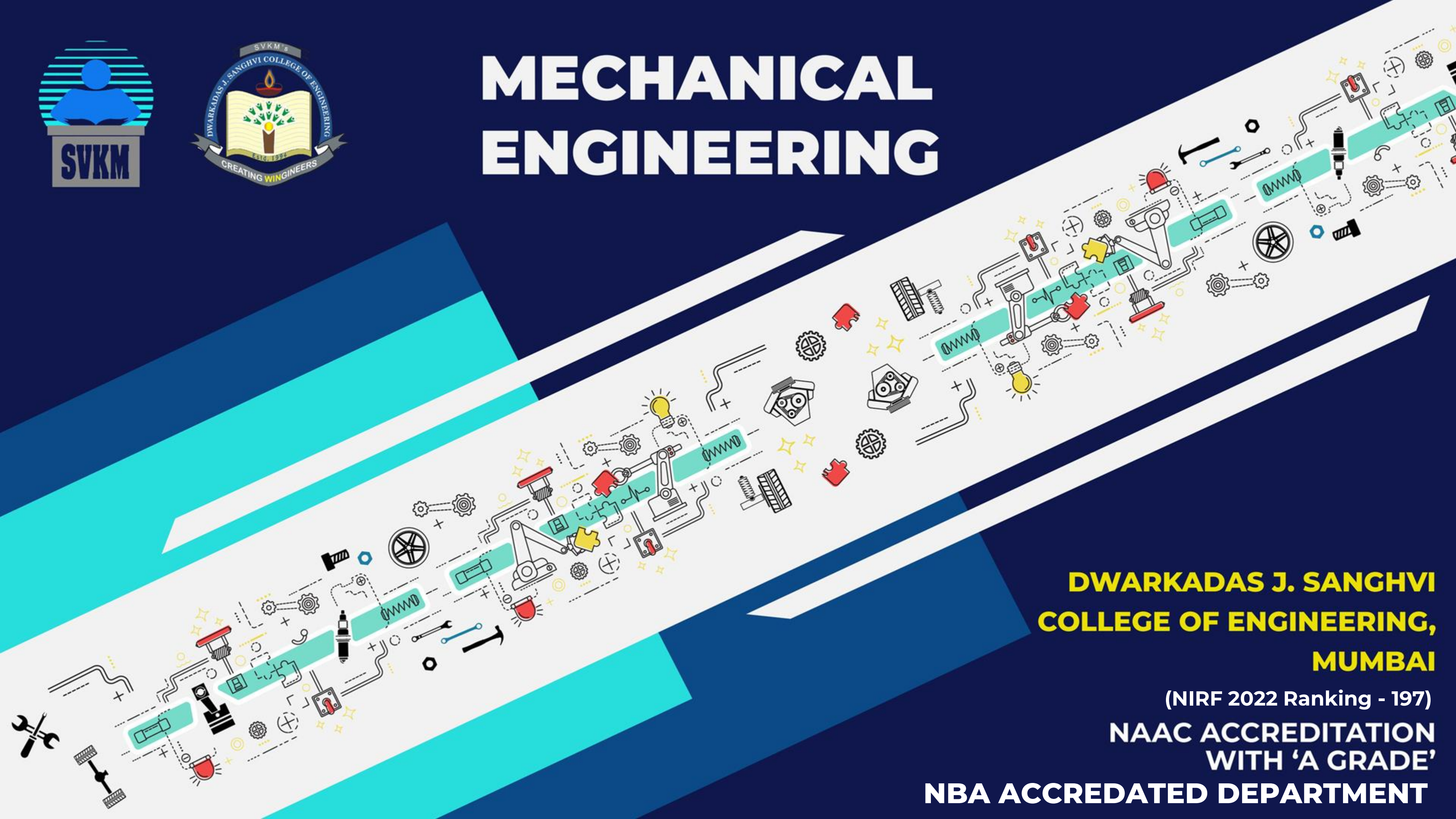




MECHANICAL ENGINEERING



**DWARKADAS J. SANGHVI
COLLEGE OF ENGINEERING,
MUMBAI**

(NIRF 2022 Ranking - 197)

**NAAC ACCREDITATION
WITH 'A GRADE'**

NBA ACCREDITED DEPARTMENT



Intake Seats

B.Tech

180

M.Tech

18

PhD

20

Institution Seats

36

GCLM (CET Cell Allotment)

92

Open (CET Cell Allotment)

52

Total Intake = 180

Teaching Staff



Dr. Hari Vasudevan
Professor & Principal



Dr. K.N. Vijaya Kumar
Professor & Head



Dr. Atul D. Dhale
Professor



Dr. Vinayak H Khatawate
Assoc. Prof. & Assoc. Head



Dr. R. S. Khavekar
Associate Professor & TPO



Prof. P. S. Shirodkar
Assistant Professor



Prof. R. Yadav
Assistant Professor



Prof. V. U. Bagal
Assistant Professor



Prof. Dhaval Birajdar
Assistant Professor



Prof. Vinit Katira
Assistant Professor



Prof. P. Patankar
Assistant Professor



Prof. R. Chaurasia
Assistant Professor



Dr. R.R. Rajguru
Assistant Professor



Prof. B. Cyriac
Assistant Professor



Prof. G. Mathew
Assistant Professor



Prof. Pavan Rayar
Assistant Professor



Dr. Sanjeev Thool
Assistant Professor



Prof. Kartik Ajugia
Assistant Professor



Prof. Shashikant Auti
Assistant Professor



Prof. Ravikant Hattale
Assistant Professor



Dr. (Mrs.) M.N. Gandhi
Assistant Professor



Prof. N.C. Deshpande
Assistant Professor



Prof. A. A. Samant
Assistant Professor



Prof. Dharam Ranka
Assistant Professor



Prof. D.S. Shukla
Assistant Professor



Prof. Sandeep R. Vaity
Assistant Professor



Dr. Sandip H. Mane
Assistant Professor



Prof. Mehul S. Prajapati
Assistant Professor



Prof. (Mrs.) T. Markose
Assistant Professor



Prof. A. A. Chaudhari
Assistant Professor



Prof. Sanket D. Parab
Assistant Professor



Prof. Sachin Kamble
Assistant Professor

Board of Studies (BOS)



**Dr. Amit Jariwala,
Director of Design & Innovation
Georgia Tech, USA**



**Dr. Ramesh Singh,
IIT Bombay, Mumbai**



**Dr. S. M. Khot, Principal,
FRCIT, Vashi**



**Dr. G.P. Rao,
Dean, NMIMS School of
Design, Mumbai**



**Dr. Suhas Deshmukh,
Director,
NCVET - GOI**



**Dr Raghunandan J,
MD & CEO, Nandan
GSE Pvt Ltd**



**Dr. Vivek Sunnapwar,
Chairman – BOS(Mechanical)
University of Mumbai**

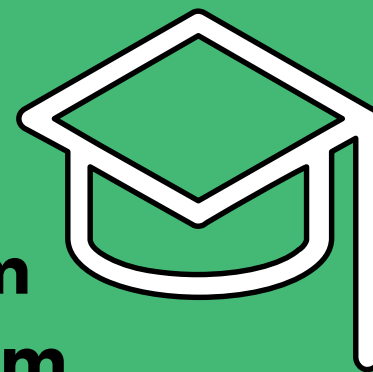
Highlights of the Department

One of the leading Mechanical Engineering department in the State in terms of Admission, Student Activities, Placement & Result.



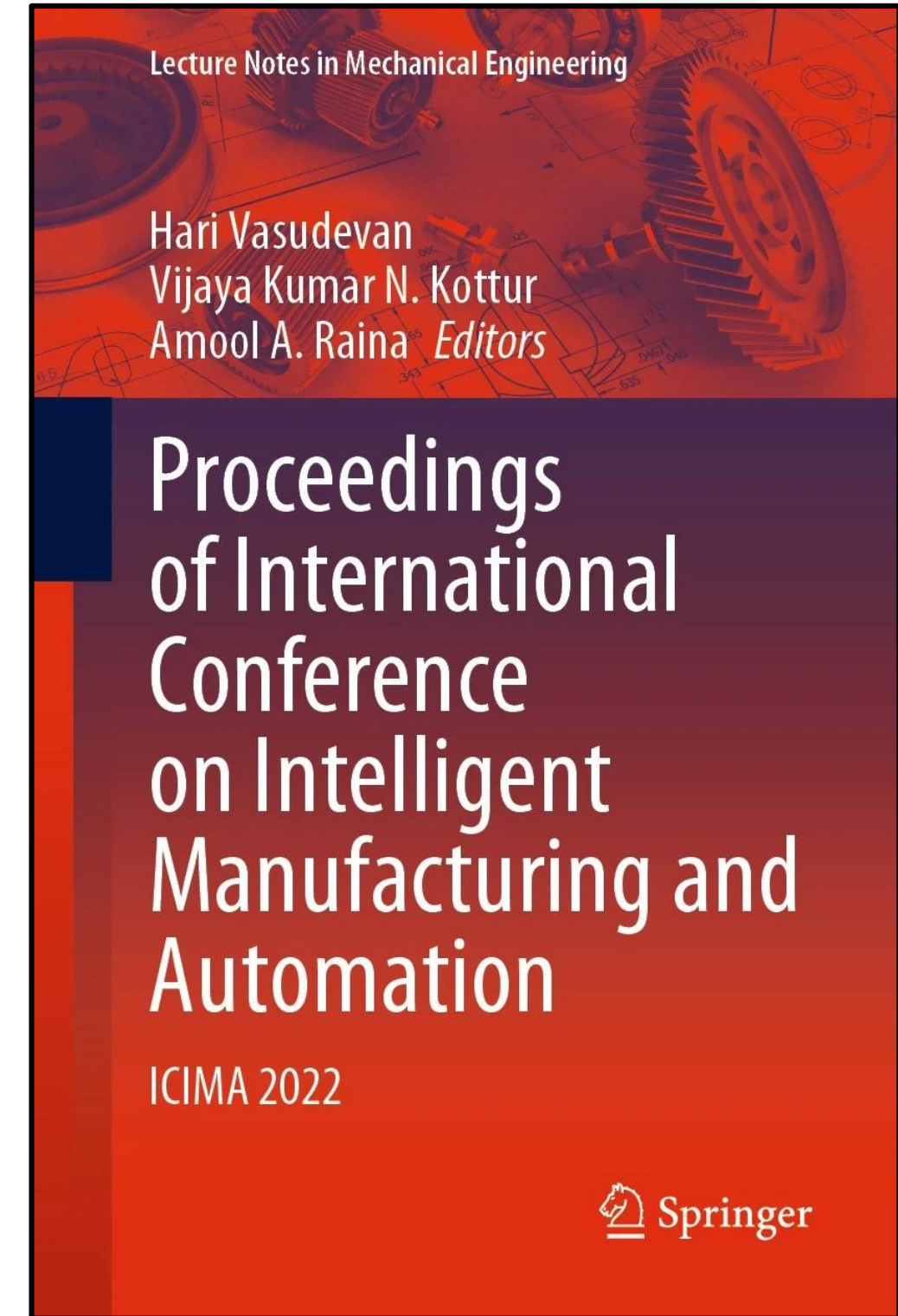
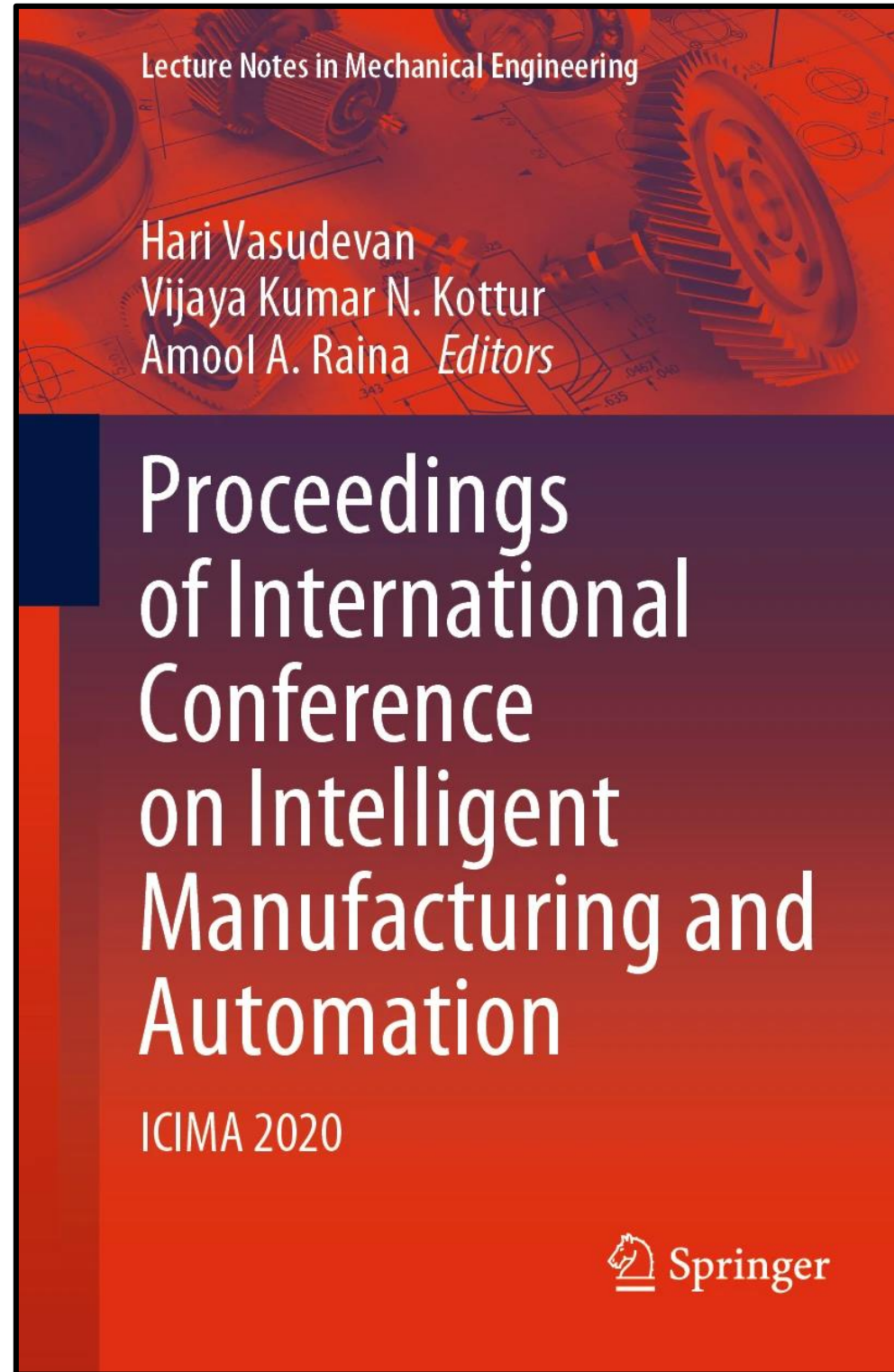
Various National & International Recognitions to student teams and faculty

- **1236 students completed UG program & working all over the globe**
- **46 students completed PG program**
- **6 students completed Ph.D. program**



- **18 Patents awarded and 20 more under consideration**
- **200+ publications**
- **Successfully organized 3 International conferences**

Conferences Organized by the Department



Mechanical Engineering Honours and Minors degree

Honours in:

1. Robotics
2. Electric Vehicles

Minors in:

1. Data Science
2. Artificial Intelligence and Machine Learning (AI & ML)
3. IoT and Industry 4.0
4. Web Application Development
5. Intelligent Automation and Applied Analytics
6. Green Technology and Sustainability Engineering



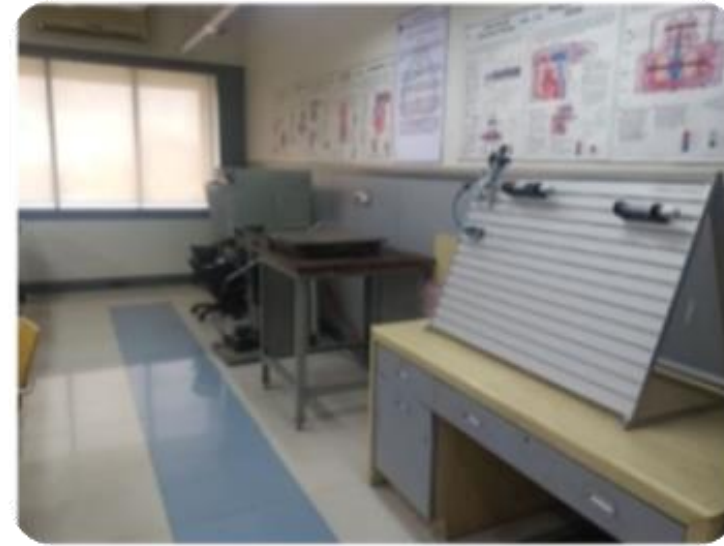
Computer related subjects in Mechanical Syllabus

Semester	Name of the Subject
V	Python for Mechanical Engineering
VI	Database Management Systems
VII	Big Data Analysis (DLE)
VII	Cyber Security and Laws (ILE)
VIII	Business Analytics(DLE)
VIII	Digital Marketing Management (ILE)

Lab Infrastructure



Material Technology



Mechatronics



Strength of Materials



Fluid Mechanics & Hydraulic Machinery



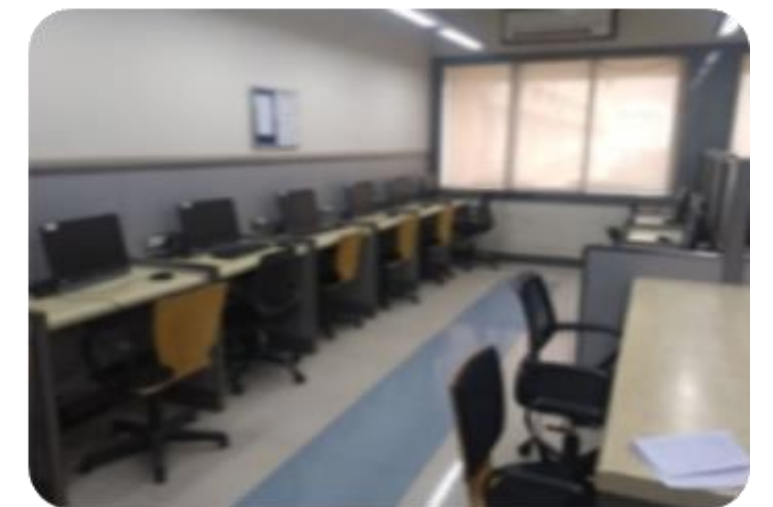
CAMD Lab



Heat Transfer



Internal Combustion Engine



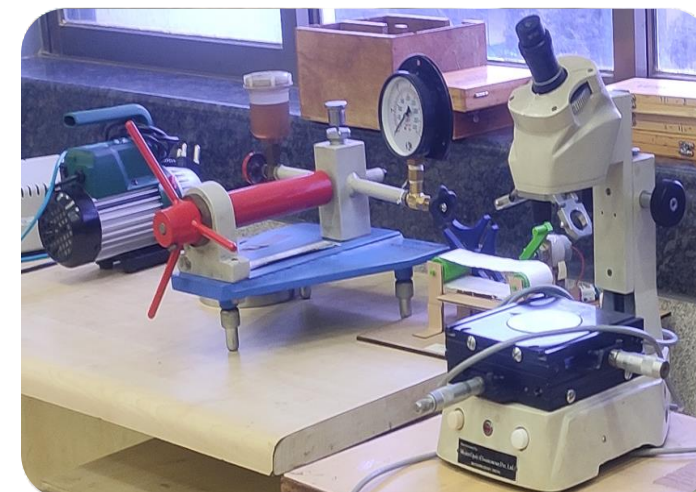
CAD/CAM/FEA



Mechanical Vibrations



**Mechanical Measurements
and Control**



**Metrology and Quality
Engineering**



Kinematics of Machinery

Lab Infrastructure



Workshop



CNC Vertical Machining Center



CNC Turning Center



3D Printing Lab



Advanced Mechatronics Lab

Student Chapters



Faculty in charge : Prof. Rajnarayan Yadav

Year of Inception : 2012

Current Members : 200+

Major Activities : 8 Student Teams, VAP Courses, Guest Lectures



Faculty in charge : Prof. Dhaval Birajdar

Year of Inception : 2013

Current Members : 20

Major Activities : ISTL, Guest Lectures, VAP Courses



Faculty in charge : Prof. Ramesh Rajguru

Year of Inception : 2011

Current Members : 200+

Major Activities : DJS Nirmiti, Guest Lectures, , VAP Courses



Faculty in charge : Prof. Pavan Rayar

Year of Inception : 2015

Current Members : 32

Major Activities : Teams DJS Robocon, Guest Lectures, Seminars





DJS RACING



Formula Bharat 2022

- 4th Overall Rank
- 2nd Business Plan
- 3rd Cost Event
- 5th Design Event

Formula Bharat 2023

- 5th Overall Rank
- 2nd Cost Event
- 5th Design Event



DJS KRONOS INDIA



E-BAJA SAE India 2022

- 1st Overall Virtual Dynamic
 - 2nd CAE Award
- 1st Suspension and Traction
 - 3rd Cost Report

M-BAJA SAE India 2022

- 9th Overall Rank
- 8th Suspension and Traction

M-BAJA 2023

- 4th CAE
- 4th Cost Report

E-BAJA 2023

- 2nd Sales Report



DJS SKYLARK

SAE Aero Design West 2023, Texas

MICRO CLASS

- Design Report - **1st** Worldwide
- Mission Performance - **6th** Worldwide
- Technical Presentation - **5th** Worldwide
- Overall - **5th** Worldwide

REGULAR CLASS

- Design Report - **1st** Worldwide
- Overall - **9th** Worldwide





DJS KARTING

GKDC 2020

- 1st overall
- 1st in B-plan
- 2nd in design evaluation

GKDC 2021

- CV: 1st overall
- EV: 3rd overall

INDIAN KARTING CHAMPIONSHIP 2023

- EV: 2nd overall

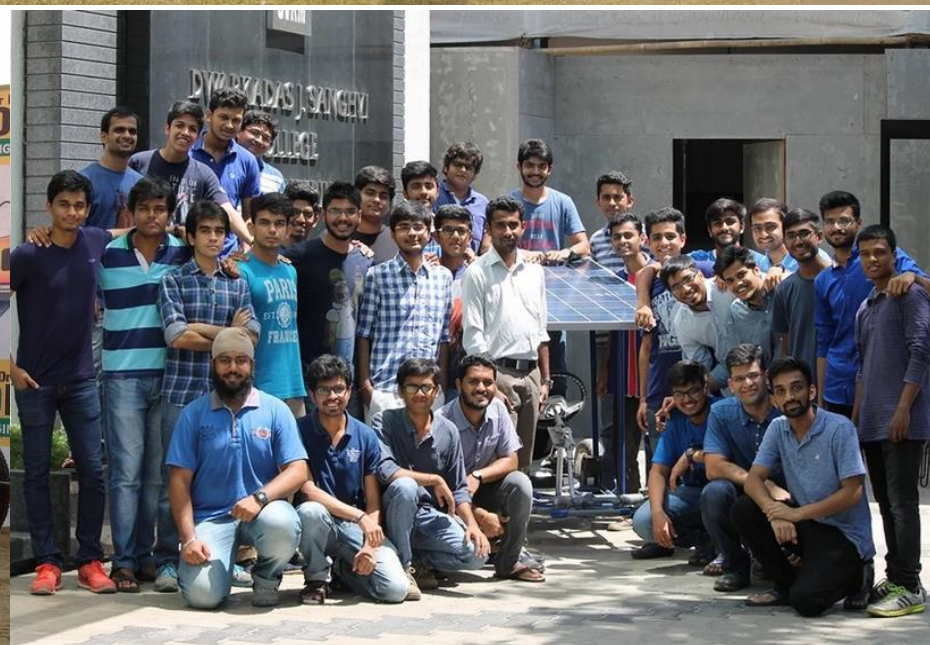


Electric-Solar Vehicle Championship 2019

- 2nd in Business Plan
- 2nd in Acceleration

National Solar Vehicle Challenge (NSVC 2020)

- 1st in Pre- Virtuals
- 2nd in Business Plan
- 2nd Cost Report
- 2nd in Acceleration



ESVC 2023

- 6th Overall

DJS PHOENIX



Indian Drone Racing League 2023

- 2nd Overall Rank

Technex-23, SVPCET Nagpur

- 2nd Overall Rank

COEX-2023

- 2nd position worldwide



DJS SPEEDSTERS



**E-Bike Racing Challenge,
2020**

Overall 2nd Position

**FMAE National Online E-Bike
Design Competition, 2021**

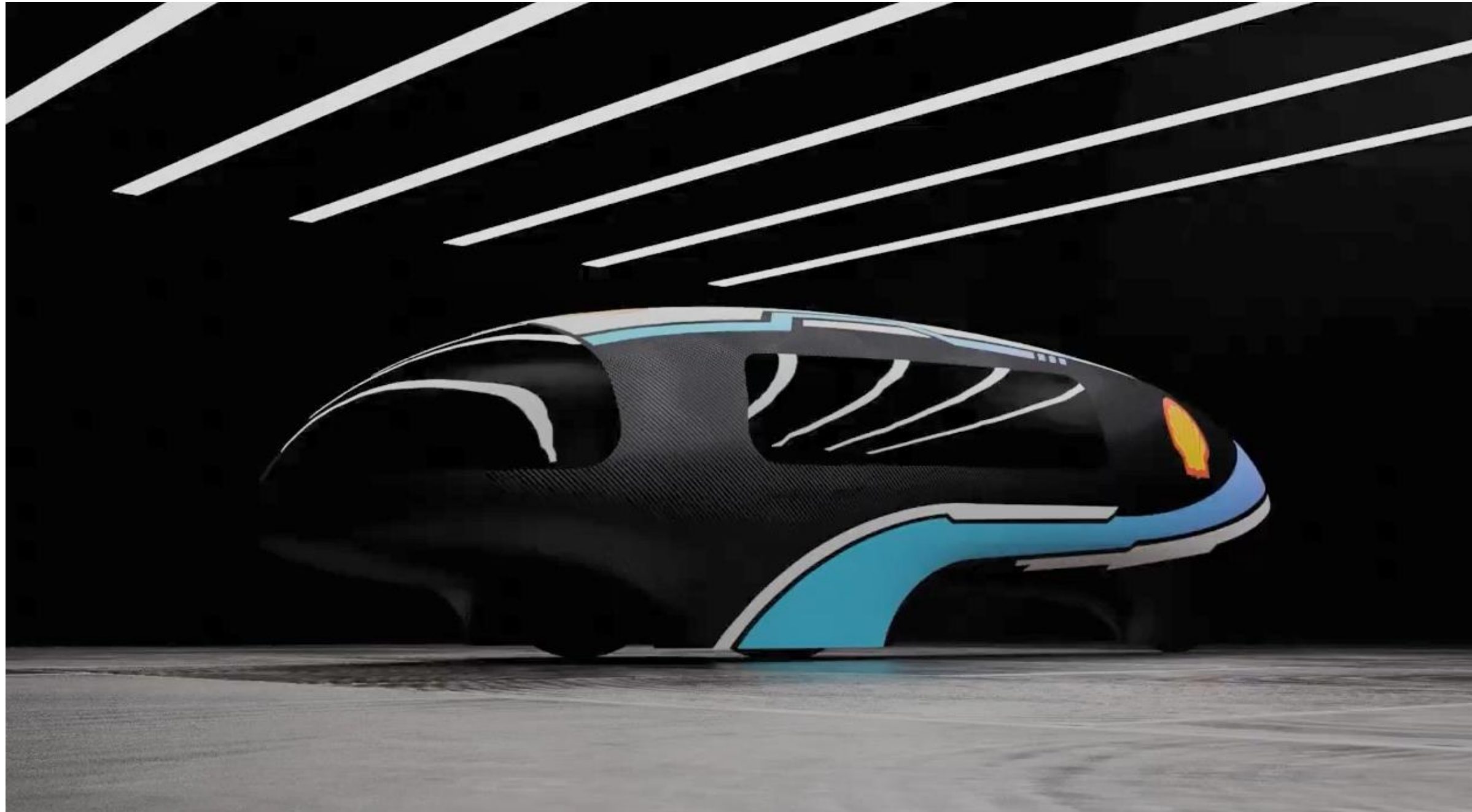
Overall 5th Position

**FMAE National Online E-Bike
Design Competition, 2023**

Overall 2nd Runners-Up



DJS MILES



Shell Eco Marathon 2021

- 1st Globally in Adobe Digital Literacy Award
- 1st in Vehicle Design Prototype (Asia Pacific and Middle East Region)
- Runner up in Long Distance Mobility (Pitch the Future)

Shell Eco Marathon 2022

- 2nd in Future Rider (Asia Pacific and Middle East Region)

INDIAN SOCIETY OF MANUFACTURING ENGINEERING

WHAT WE DO:



INVITED TALKS



**VALUE ADDED
PROGRAMS**



INDUSTRIAL VISITS



WORKSHOPS



TRAINING SEMINARS

INDUSTRIAL VISITS



IV @ MERCEDES-BENZ



IV @ TATA MOTORS



IV @ VOLKSWAGEN



IV @ BAJAJ AUTO

VAP COURSES, SEMINARS AND GUEST LECTURES



3D-PRINTING VAP COURSE



WELDING WORKSHOP @L&T,MADH



**CNC MACHINING
VAPCOURSE**



**PANEL DISCUSSION ON “MANUFACTURING ON
CROSS-ROADS: CHALLENGES AND OPPORTUNITIES”**



**CARRER IN FINANCE AND
TRESEARURY BY EY**



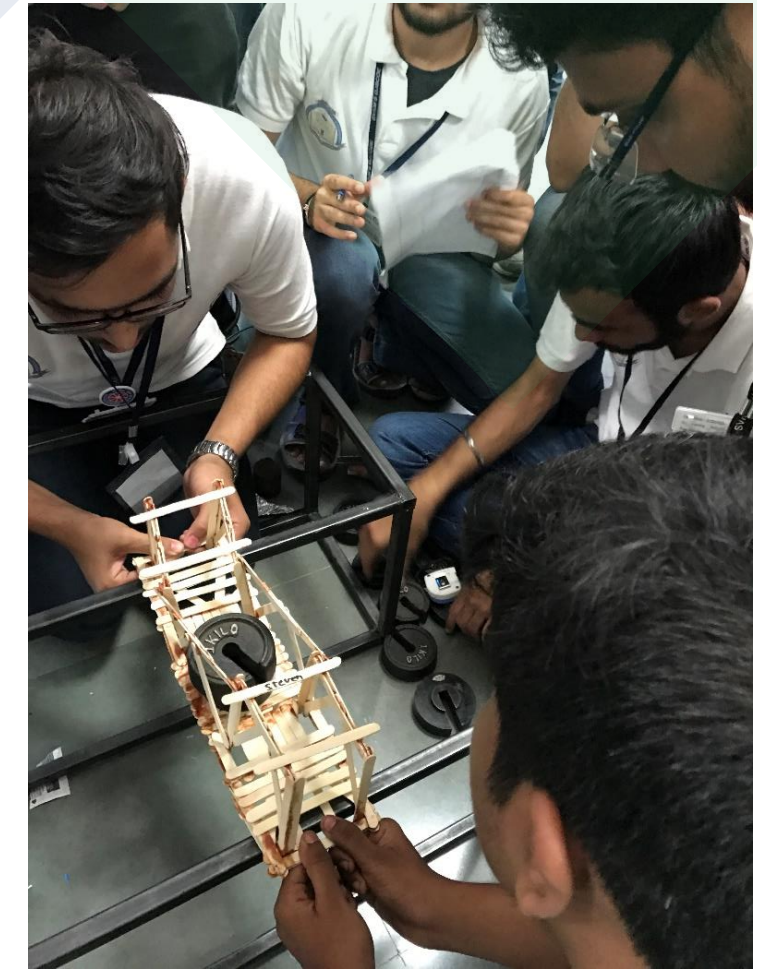
DJS NIRMITI – TECHNICAL FESTIVAL



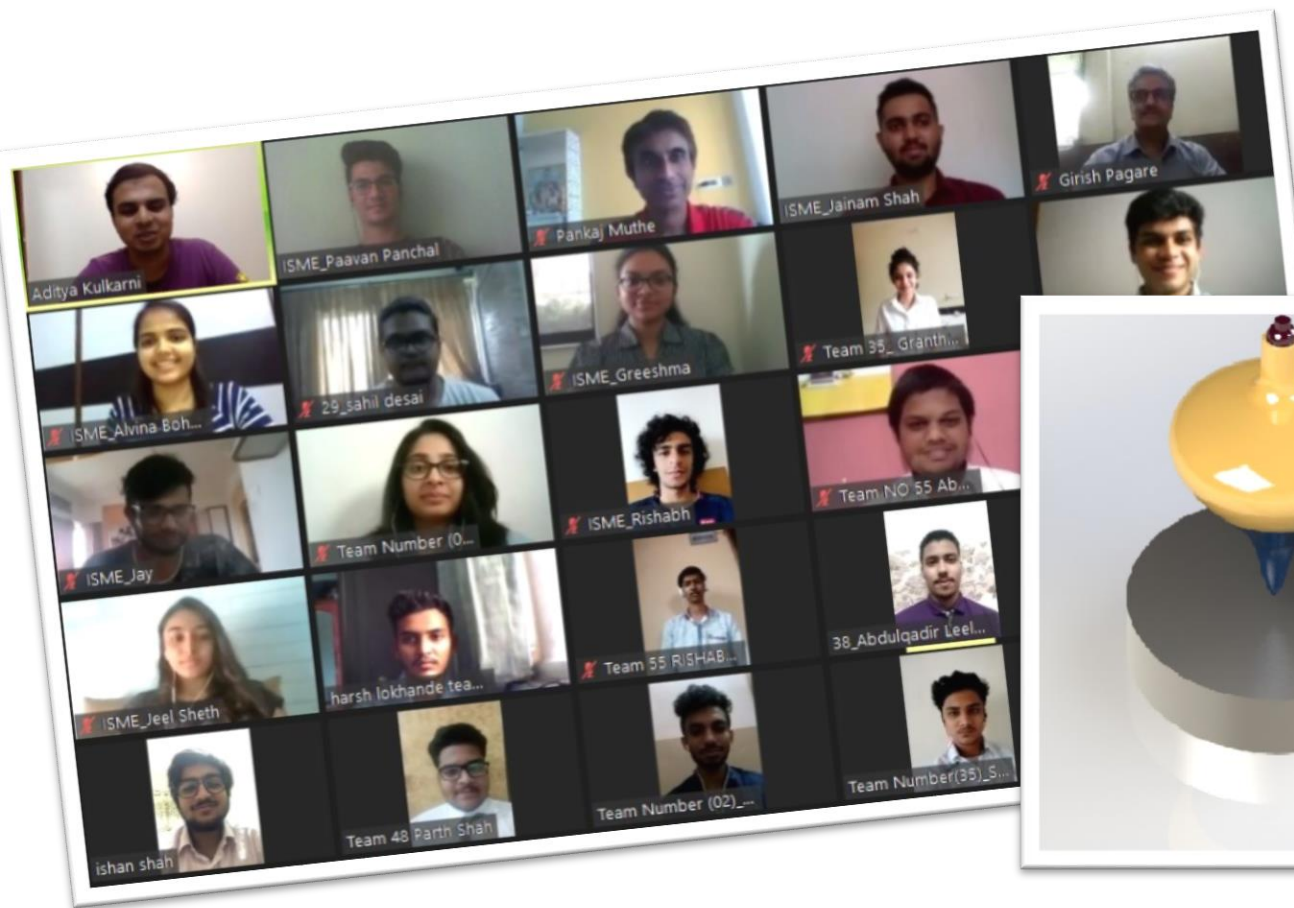
B-PLAN



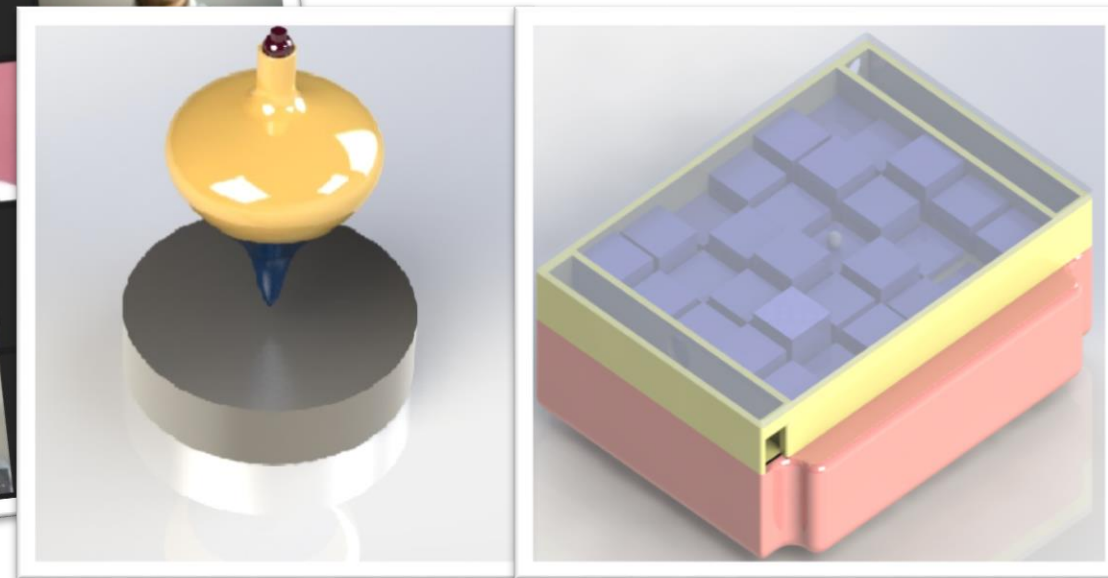
PROJECT COMPETITION



BRIDGE THE GAP EVENT



**NIRMITI-E CONDUCTED DURING
LOCKDOWN**



CATAPULT EVENT

DJS ROBOCON



DD Robocon 2022

AIR 3 in Stage 1

AIR 3 in the Stage 2

DD Robocon 2023

AIR 9

Scored 99/100 in Stage 1
More than 142 teams



INDIAN SOCIETY OF HEATING REFRIGERATION AIRCONDITIONING ENGINEERING

ISHRAE

Advancement of the Arts and Sciences of Heating, Ventilation, Air conditioning and Refrigeration Engineering and related services

To provide means And methods for Applying Such Knowledge in Practice.

To Encourage students for scientific research

We host a variety of national seminars, training seminars, workshops, industrial visits, and technical presentations in an effort to reduce the gap between the academic world and the Industry world.





Student Technical League(ISTL)

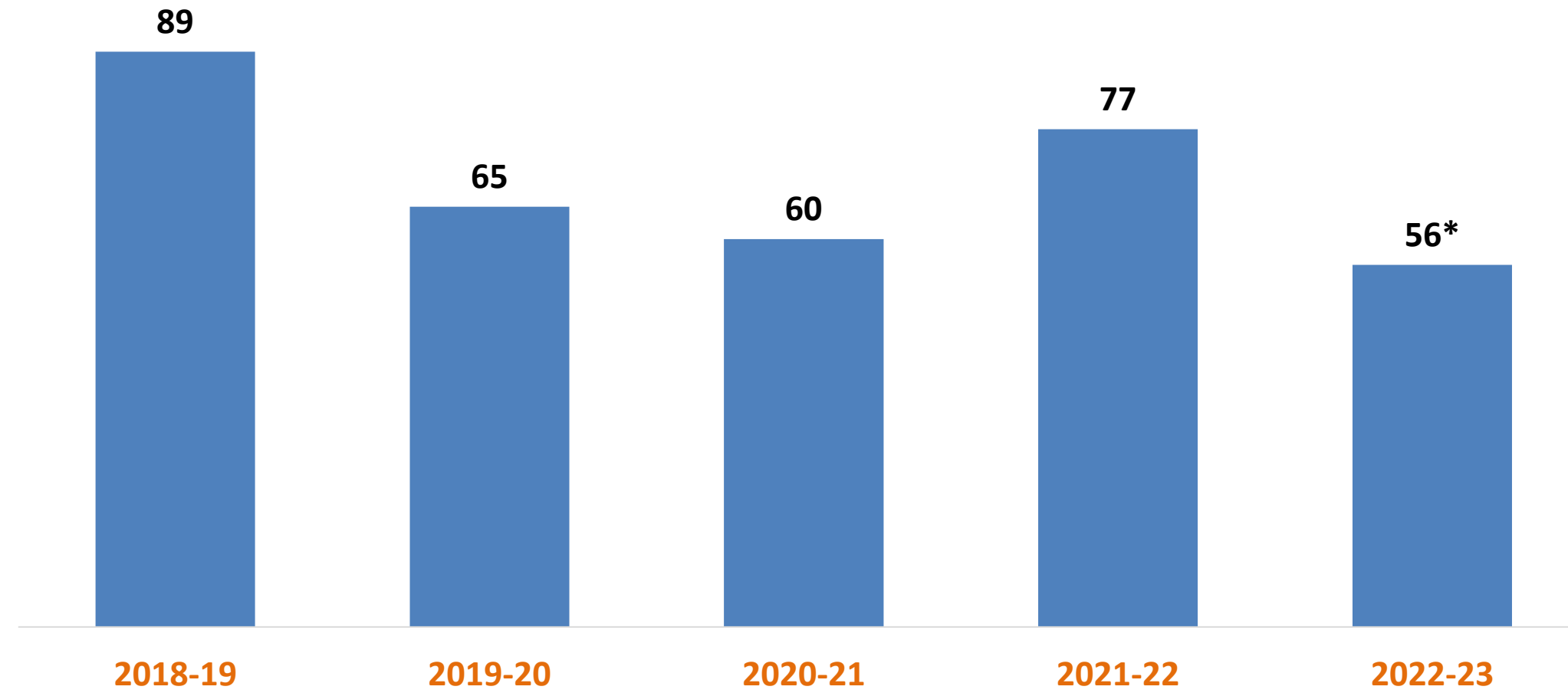


Industrial Visits



INDIAN SOCIETY OF HEATING REFRIGERATION AIRCONDITIONING ENGINEERING

Placements



*98 % of interested and eligible students already placed for the AY 2022-23

Highest Package (CTC)

9.5 LPA

Avg. Package (CTC)

6.85 LPA



Placement 2021-22

Sr. No.	Company	CTC (LPA)	No. Of Students Placed
1	ZS Associates	12.8	8
2	Think360	9.55	3
3	Quantiphi	8.5	5
4	Oracle Financial Services Software	8.2	2
5	GEP	8	1
6	Deloitte	7.6	6
7	Mu Sigma	7.5	5
8	Edelweiss	7	1
9	TresVista	7	4
10	Larsen & Toubro	6.75	3
11	Rise WPU	6.6	3
12	Ernst & Young	6.37	2
13	Jaro Education	6.15	1
14	Decimal Point Analytics	6	4
15	Native	6	1
16	Technip	6	5
17	Blue Star	5.56	3
18	JSW	5.5	1
19	Godrej & Boyce	5.5	9

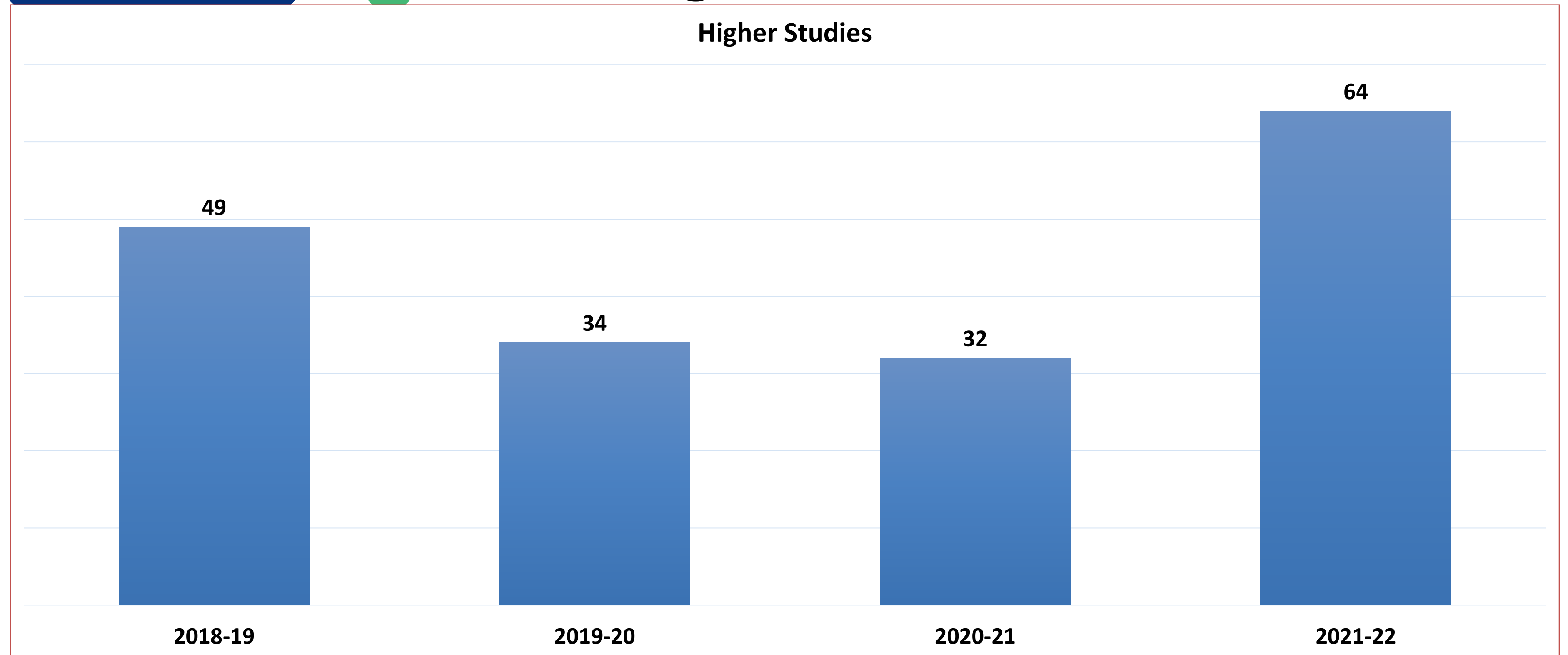
Sr. No.	Company	CTC (LPA)	No. Of Students Placed
20	Anglo-Eastern ship Management	5.4	2
21	LTI	5	1
22	Technimont	5	2
23	ACG World	4.5	1
24	Acies Consulting	4.5	1
25	Selec Controls	4.5	3
26	Squareyards	4.5	6
27	TATA Consulting Engineers Limited	4.5	7
28	Capgemini	4	6
29	Cognizant	4	10
30	Inquizity	4	1
31	Reliance JIO	4	4
32	TCS Ninja	3.96	4
33	Worley	3.96	1
34	Armstrong Machine Builders Private Limited	3.6	1
35	Infosys	3.6	3
36	TATA Voltas	3.6	2
37	Mirraw	3.5	1
38	Pransa International	3.5	2
39	Pyramis E&C	3	1
	Total	126 offers to 70 students	

Placement 2022-23

Sr.No	Company	CTC (LPA)	No Of Students Placed
1	Quantiphi	9.5	2
2	Aspri	9	1
3	Fractal Analytics	8.58	1
4	GEP	8	1
5	TresVista	8	4
6	Edelweiss	8	1
7	Neo grop	8	1
8	LTI	6.5	1
9	HDFC	6.32	1
10	Avalon Global Research	6.2	1
11	Godrej & Boyce	6.2	7
12	Alpha Alternatives	6	2
13	L&T	6	5
14	TASL	5.5	4
15	Gandhi Automation	5.5	1

Sr.No	Company	CTC (LPA)	No Of Students Placed
16	JSW	5.5	1
17	Avniro Engati	5.33	1
18	Nerolac	5.25	1
19	Worley	5.12	1
20	Siemens	5	1
21	mahindra	5	1
22	LogiQids	4.8	1
23	Nilkamal	4.5	3
24	TCE	4.5	5
25	Cognizant	4	2
26	Techint	4	1
27	TCS	3.8	1
28	Imaginarium	3.6	4
	Total	56 offers to 60 students	

Higher Studies





Higher study Opportunities

- **M.S in Computer Science**
- **M.S in Data Science**
- **M.S in AIML**
- **M.S in Mechatronics.**
- **M.S in Nanotechnology.**
- **M.S in Robotics.**
- **M.S in Advanced Manufacturing.**
- **M.S in Aerospace engineering.**
- **M.S in Aeronautical engineering.**
- **M.S in Motor Sports Engineering**
- **M.S in Product Design**
- **M.S in Financial Engineering.**
- **M.S in Industrial Engineering.**
- **M.S in Supply chain And Technology Management.**
- **M.S in Industrial Engineering Management**



STANFORD



Technische Hochschule
Ingolstadt



TECHNISCHE UNIVERSITÄT
ILMENAU



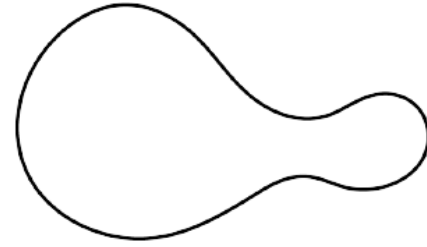
PennState

Higher Studies

Internships



imaginarium



P R A A N®



yulu



EASYEAT.AI

TEACHFORINDIA



Algo
Engines



DIMENTICS
INFO TECH



Mahindra



CEDAR



RUBY
CAPITAL



Ignited Minds

Unleashing the powers



TopHire



CEAT



TATA POWER



PAWAN HANS LIMITED

adani
Power



Mercedes-Benz



LARSEN & TOUBRO



SUBSEA PRO
Engineering Pvt. Ltd.



L&T Defence



तेजस्वि नावधीतमस्तु

EVERGREEN

SELEC®
Creating Best Value

SOLVITUDE

ACG
CAPSULES

Saltblush
Gardner

also includes Fiddlehead Hospitality, etc. and many more.....

Notable Alumni



DIPTESH MALATPURE

Chassis Controls Engineer at **Tesla**
MS, Michigan Technological University



VIRAJ SHAH

Material Planner at **Tesla**
MS from Georgia Tech



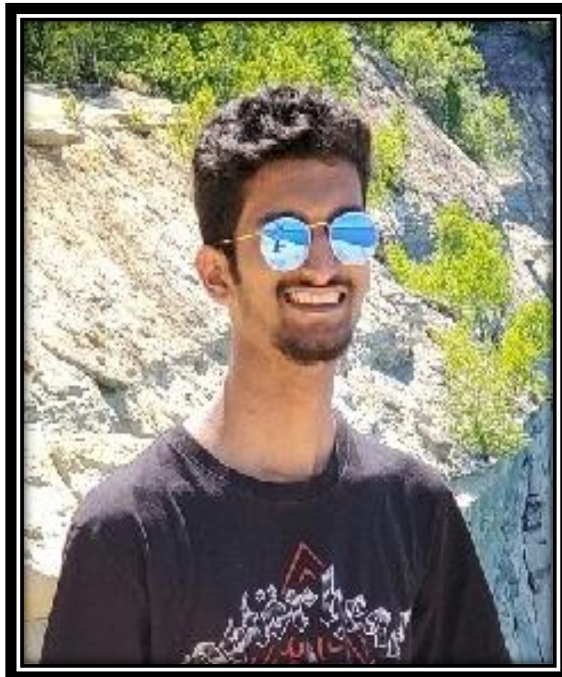
OMKAR SAMANT

Industrial Engineer at **Tesla**
MS from North Carolina



DEVANG KANTHARIA

Engineering Program Manager at **Tesla**
MEng from University of Michigan



SUBIN SHETTY

Quality Engineer at **Rivian**



SHAKSHI HIMMATRAMKA

Controls Engineer at **Rivian**
MS, UC Berkeley



JAINEEL DESAI

Software Engineer II,
Rivian



JANAK CHITRODA

Design Engineer at **Rolls-Royce**

Notable Alumni



MEETA MALVANKAR
Manager at Mondelez International
MBA, **IIM Kozhikode**



JANHAVI SHINDE
Reliability Engineer at **iRobot**



FAY NICOLE COLAH
Product System Design Engineer,
Cummins
Stanford University



VINEETA PENDSE
Business Analyst & Product
Specialist at **Yayloh, Sweden**



MANAN MEHTA
Director
**MS Cube Systems Private
Limited**



VISMAY DOSHI
Director
Jeet Speciality Chemicals



AMEY PATEL
Partner
APH Tech

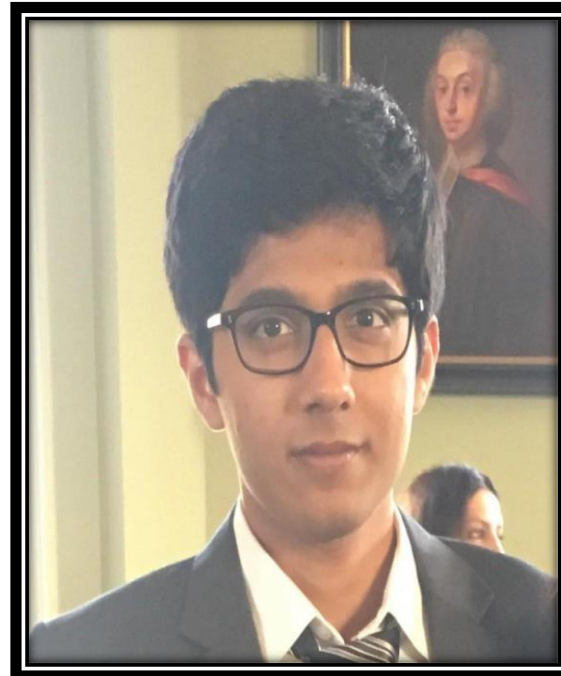


SAHEB SINGH BHOMRA
Director Of Operations
Pioneer Rubber Corporation

Notable Alumni



JANAM SANGHAVI
Autonomous Motorsports
MS, Clemson University



VISHWARAJ DOSHI
PhD, North Carolina State University
Advanced Analytics at IQVIA



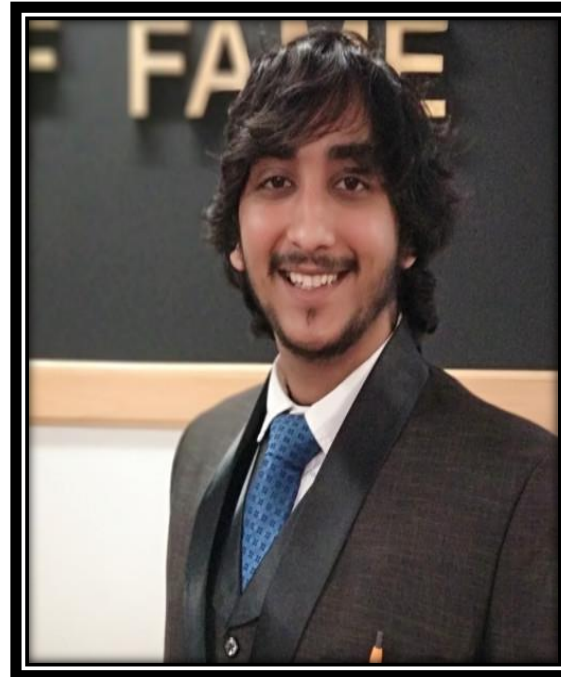
JANAV UDANI
PhD, Purdue University
Senior Product Design Engineer 3M



Shivam Mistry
MS, UC Berkeley
Senior Consultant at Deloitte



RUJAI MEHTA
MS, Michigan Technological University
Propulsion System Test Engineer at
ZeroAvia



SHREYANS SETHIA
Senior Test Engineer
Cummins



JAY SANGHRAJKA
MSc, Cranfield University
Chassis Project Engineer at Jaguar
Land Rover SVO



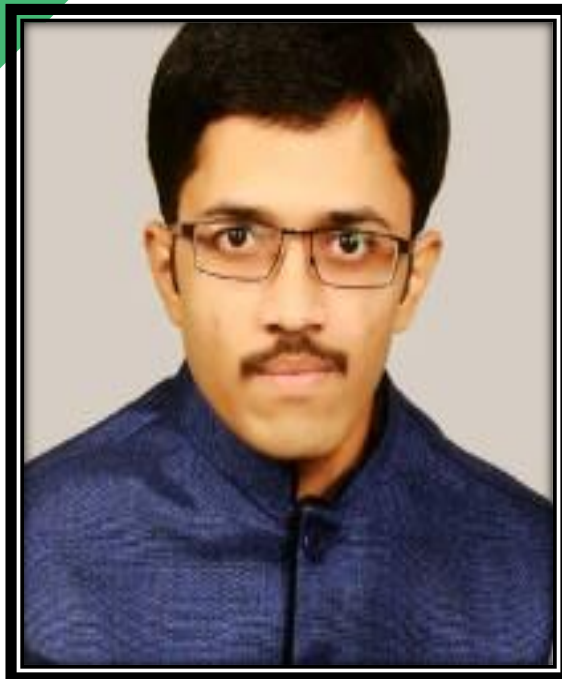
MIHIR KANSARA
Senior Business Analyst at Capital One
MS, Columbia University

Notable Alumni



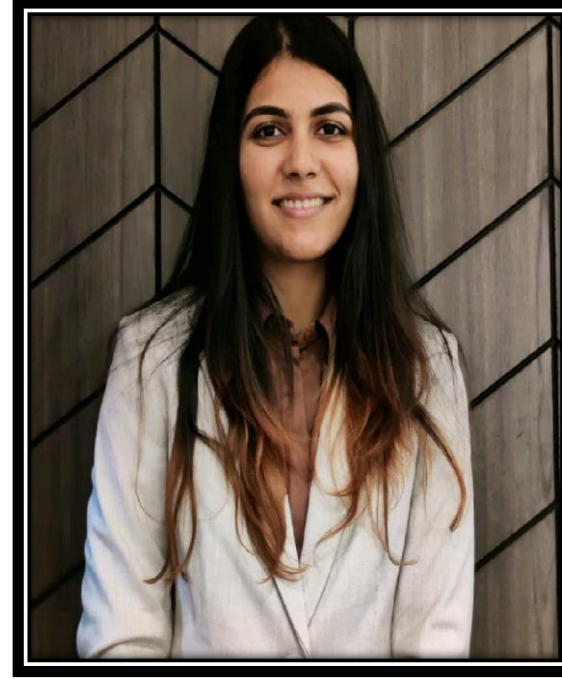
YASH RANA

Manager, Godrej Consumer Products Limited
IIM, Ahmedabad



DEVDAAT BHURKE

Operations Officer Grade 'A'
Hindustan Petroleum Corp. Ltd.



SUCHETA KABRA

Decision Analytics Associate
ZS



ZUBIN SONI

Asian Paints



KAIVAL NAYAK

Manager, Advanced Analytics
Walmart



RAJVARDHAN KAPADNIS

Software Engineer
LinkedIn



SANDEEP KAVA

Process Engineer
Amazon



AMAN TUKREL

Analytics Manager at Albertsons



Thank you!