



Gokhale Education Society's

**R . H. SAPAT COLLEGE OF ENGINEERING,
MANAGEMENT STUDIES AND RESEARCH,
NASHIK-422005**



AICTE Approved | Accredited by NAAC for 2nd Cycle with B++ Grade (2025-2030) | Affiliated to SPPU, Pune | ISO 9001: 2015 Certified

**DEPARTMENT
OF
MECHANICAL ENGINEERING**

DTE CHOICE CODE- 0518161210



**Department
Information Book**

Intake :
UG: 120
PG: 12

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Prepared & Compiled by,
Mr.Kiran S. Phad
Assistant Professor
Department of Mechanical Engineering



Secretary's Message

Gokhale Education Society, founded on 19th February 1918, is an illustrious educational enterprise with a rich legacy spanning over a century. Founded

by Prin. T. A. Kulkarni, a disciple of Namdar Gopal Krishna Gokhale, G.E. Society today has grown to encompass more than 140 units across three zones in Mumbai, Nashik, and Thane-Palghar. It caters to an extensive student population of 1.25 lakh through its various educational institutes. These educational institutes provide training in a range of faculties including humanities, commerce, management, science, engineering and paramedical training and always strive for the holistic growth of students' personalities. The visionary leadership of the Late Honourable Sir Dr. M.S. Gosavi, former Secretary and Director General of G. E. Society added unparalleled strength to the advancement of G. E. Society.

G.E.Society's "R.H.Sapat College of Engineering, Management Studies and Research" is one of the valuable stakeholders of G.E. Society. It is an expression of the vision of Late Honourable Sir Dr. M.S. Gosavi, former Secretary and Director General of G. E. Society who acted as the Founder Director of this college.



Prin. Dr. Mrs. D. P. Deshpande
Secretary, Treasurer & Director (HR)
Gokhale Education Society

Director's Message

"A college with a difference."

Our college is committed to impart quality technical education with ingrained ethical values. We are committed to instill inquisitiveness amongst all students who can acquire the necessary technical knowledge and skills. By encouraging learning through enquiry, logic and developing a fearless attitude towards the fulfillment of curiosity, true know how & skill-sets can be acquired.

Our endeavor to catalyst change in imparting technical knowledge so as to differentiate our students from the rest is firmly embedded in our belief that 21st Century Engineer from this college would be a Lifelong learner, Critical Thinker and Leader of a change. We believe that a four-year Engineering Degree Course bestows.



Prof. P. M. Deshpande
Director (Project),
GES & Branch Secretary,
Engg. Center

Principal Message

I am delighted to pen a few words for the Department of Mechanical Engineering's Department information Book. This initiative is a commendable effort to document and share the activities, achievements, and progress of one of the most dynamic departments of our institute. The Department of Mechanical Engineering, since its inception in 2009 under the umbrella of Gokhale Education Society's R. H. Sapat College of Engineering, Management Studies and Research, has consistently strived to uphold the legacy of the Society in providing quality, value-based education. With well-equipped laboratories, dedicated faculty, and a focus on both academic rigor and holistic development, the department has established itself as a hub of learning and innovation. Our students have brought laurels through their participation in national-level competitions, technical projects, and research initiatives. The department's emphasis on industry interaction, expert lectures, and workshops ensures that students are equipped with the skills and values required to excel in their careers while contributing meaningfully to society.

I appreciate the efforts of the faculty and students in putting together this book. It not only serves as a record of activities but also as a source of inspiration and motivation for the entire academic community.



Dr. Shirish S. Sane
Principal
M. Tech (CSE, IITB),
Ph. D (Computer, COEP, Pune)



Head of the Department Message

It gives me great pleasure to represent the first issue of our department information book. This Book highlights of our academic, co-curricular, and research activities, and sharing the collective achievements of our students and faculty with a wider audience.

Since its establishment in 2009-10, the Department of Mechanical Engineering has been committed to academic excellence, holistic student development, and meaningful industry interaction. With a sanctioned intake of 120 undergraduate and 12 postgraduate students in Mechanical Design Engineering, supported by a team of dedicated faculty members, the department continues to nurture talent with strong fundamentals, practical skills, and a sense of responsibility towards society and the environment.

Our laboratories are well equipped for advanced teaching, research, and development activities. Our students actively engage in national-level competitions, participate in industrial visits, workshops, and expert lectures, and contribute to extension activities that shape them into well-rounded professionals. Many of our graduates have been successfully placed in reputed companies, a testimony to the consistent efforts of our faculty and the determination of our students.

This booklet is not just a record of events and achievements, but also a reflection of the energy, innovation, and enthusiasm that define our department. I hope it will serve as a platform to inspire our students, connect with alumni, and strengthen the bond between academia and industry.

I look forward to the continued success of our department and to many more milestones in the future.



Dr. Prashant Nehe
M.Tech (TFE), IIT Bombay,
PhD, IIT Bombay

Department Vision Mission

Vision:

To impart quality education in mechanical Engineering and Develop students to be self-employed and to work in the industry and society.

Mission:

M1: To impart analytical and conceptual skills through adequate exposure to theory and Practice.

M2: To impart basic and contemporary science, Engineering and research skills for identifying problems and to be able to develop practical solutions to them.

M3: To inculcate social and professional ethical responsibility through value embedded technical knowledge.

Program Specific Outcome (PSO's) (UG):

PSO 1 : Mechanical Engineering Graduates will be able to work in the industries with thorough knowledge in the field of thermal, design and manufacturing processes.

PSO 2 : Mechanical Engineering graduate must be able to demonstrate the ability to identify formulate and solve a mechanical Engineering problem using research-based knowledge and research methods.

PSO 3 : Mechanical Engineering Graduate will be able to apply value embedded technical knowledge to assess social and professional ethical responsibility.

Program Educational Objectives (PEO'S):

PEO1: To prepare students for professional careers with strong fundamental knowledge in diversified areas such as Design, Thermal and Manufacturing Engineering to enable them analyze Mechanical Engineering related problems.

PEO2: To cultivate students proficiency in acquiring specialized technical expertise in mechanical engineering, emphasizing solutions to industry-relevant challenges across diverse domains.

PEO3: To establish a robust foundation in academics, leadership capabilities, and a commitment to lifelong learning, enabling a successful professional career and pursuit of advanced studies in mechanical and interdisciplinary fields.





Distinguished Alumni

Notable Girls Alumni



Kanchan Aware
AMVI, RTO



Prachi Modak
AMVI, RTO



Bhavna Jadhav
AMVI, RTO



Madhavi Jagtap
Tech Mahindra



Jyoti Kangane
WRD



Yashashree Dighe
WRD



Kanchan Kadam
Cummins India



Sayali Waghode
Triveni Turbines



Bhakti Pund
Atlas Copco



Roshani Ghuge
Byjus



Chaitali Chaudhari
TCS



Purva Thakur
Infosys



Snehal Kapadi
Infosys



Prajakta Mahajan
TCS



Pallavi Mogal
TCS



Dhanisha Chavanke
Wipro



Alumni

Notable Boys Alumni



Sagar Ajabe
AMVI



Pranav Bhamare
AMVI



Kumar Abhimanyu
Lieutenant, Indian Army



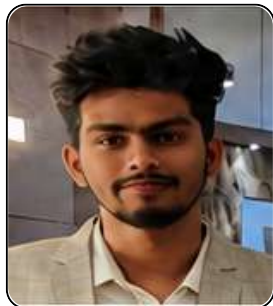
Akshay Deshpande
Founder & Director,
Sigma Technical Management and Services



Shubham Somawanshi
Operations Associate
WNS Global Services



Pranav Deo
Associate Engineer
Magna International



Atharva Aher
Senior Software Developer
Accenture



Sudarshan Chavan
Technology Analyst
Infosys



Hrishikesh Shinde
Senior Software Developer
Capgemini



Dewa Bari
Project Officer-I
Bharat Electronics Limited



Rahul Narkhede
Oracle AMS Engineer, TCS



Viraj Wagh
Product Manager UST Global



Vaibhav Mahajan
Software Developer, Winjit



Shriank Ahire
Logistics Executive Bag of
Ethics, UK



Kalpesh Nahire
Software Engineer, HSBC



Aditya Gurule
Engineer, Hyosung T&D



Yash Kadam
PPC Engineer, Siemens



Vishal Patil
Design Engineer, TATA MOTORS



Sagar Palve
Assi. Manager, Mahindra



Sushrut Karve
Managing Director,
Shraddha Fire Protection
Pvt.Ltd



LMP TEAM



Final Year Student Projects



Solar powered air refrigeration system using principle of peltier effect



TEG Integrated forced draft improved Biomass Cookstove



Heat transfer enhancement in heat exchanger using combined passive techniques



Design, Development and Experimentation on Square Pyramid Solar Still

Community Engagement Project Activity



The Impact of Social Media on society



Herbal and Neutrition



Renewable Energy as Wind Energy



Career Orientation For Youth



Awareness on Junk Food Vs Homemade Food



Community Engagement Project Activity

"Awareness sessions were conducted for CEP activities under the following project titles within the community."



Air Pollution and their Effects

Visited pollution control board office for collecting information about industrial pollution rules.



Visit at doctor to know diseases face by industry workers



Recycling and Waste reduction in soil waste

Awareness was spread across Nashik city.



Biofuels Sustainable Energy Sources



Modern and traditional health care methods



Chemical in daily life



Bhagwad geeta (Human psychology)



Awareness and Action on Water Pollution

Students conducted an awareness campaign on water pollution at Goda Ghat in Nashik.



Cyber Security ,Interview of police representative



Electricity generation from industrial Exhaust



Community Engagement Project Activity

Awareness Sessions Conducted for CEP activity under the following Project title inside Community



Fire Safety

Students conducted an awareness drive on fire safety and the proper use of fire safety equipment across the college campus for all branch students.



Recycling and Waste reduction in solid waste

1. Meeting nutritionist to make a diet plan and ask about good food habits.
2. Explaining good food habits to community



Horn control system



Hydrogen as future fuel



Water facilities and drinking water availability



Water pollution



Women safety awareness



Wastage of Electricity



Organic Farming



Implementation of respect , honesty and compassion



Incidence of diabetes and other chronic diseases

Third Year Internship Activity



MLT Pack Services, Sinnar, Nashik



Truetech Vision, Ambad, Nashik



JG ACERO, Ambad, Nashik



Vaishnavi Auto, Ambad, Nashik



Sharda Motors India Ltd, Nashik



Dhanshree Engg, Nashik



Armstrong Dematic Nashik



Armstrong Dematic Ltd., Ozar



Tanay Services Pvt.Ltd., Nashik



V.K.Pump Industries, Ambad, Nashik



Nashik Engg. Cluster, Nashik



Vaitarna Dam, Nashik

Student Annual Sport



Girls Cricket Team



Boy's Playing Shot Put



Boy's Volley Ball Team



Boy's Playing Cricket



Girls Badminton Team



Boy's Playing Volley Ball

The students of the Mechanical Engineering Department emerged as **Winners in Cricket** at the Annual Resonance Sports Fest, organized by GE Society's RH Sapat College of Engineering, Management Studies and Research.

Under the dynamic leadership of Captain Yash Borade (B.E. Mechanical), the team displayed exceptional coordination, determination, and sportsmanship throughout the tournament. Their strategic gameplay, unity, and consistent performance led them to secure the championship title.



Mechanical Winners Cricket Team

Miss Kalyani Avinash Chavhan has showcased outstanding talent and consistent performance in the game of chess since her school days. She has:

•District-Level

Achievements: Represented her school twice at district-level chess tournaments, demonstrating her strong strategic skills and competitive spirit.



Chess Player

Mr. Yash Borade (B.E. Mechanical) emerged as the Winner in **Badminton** at the Annual Resonance Sports Fest, organized by GES RH Sapat College of Engineering, Management Studies and Research. He secured the trophy and certificate for his outstanding performance, bringing pride and recognition to the Mechanical Engineering Department.



Badminton

Current Year Student Placement



Mr. Manashw Joshi
Hindustan Hardy /
Pin Click



Mr. Rahul Gangurde
Neumann/MASO



Mr. Anurag Kokande
Neumann



Mr. Chetana Thakre
MASO Automotive



Mr. Atharv Gaikar
Crompton Greaves/
MASO Automotive



Mr. Sarvesh Nerkar
MASO Automotive /
GansonsPvt Ltd



Mr. Gaurav Rokade
MASO Automotive



Mr. Kaushal Bhamare
MASO/Eagle Hi-
Tech/TEMA/JSW Steel



Mr. Prathamesh Shelke
MASO Automotive /
JSW Steel



Miss. Shweta Gaikwad
MASO Automotive



Mr. Yash Pagar
BOSCH



Miss. Tanuja Phadol
Eagle Hi-Tech/ Sigma

Current Year Student Placement



Mr. Neeraj Thakare
Hindustan Hardy / Eagle
Hi-Tech



Mr. Atharv Hagawane
TEMA India



Mr. Gaurav Shinde
TEMA India



Mr. Abhishek Sankpal
TEMA India / Gansons
Pvt Ltd



Mr. Suyash Kumavat
Mahindra & Mahindra



Mr. Sagar Khaire
Hyosung India Pvt. Ltd.



Mr. Ashish Dhake
TEMA India



Mr. Sanket Pathak
Hindustan Hardy



Mr. Ajay Kotwal
Armstrong Dematic



Mr. Aditya Kale
Mahindra & Mahindra



Mr. Mauktik Bhandari
Hindustan Hardy Ltd



Mr. Sudarshan Dube
Mahindra & Mahindra



Mr. Prathamesh
Sangamnere
JSW Steel / Sigma Tech



Mr. Krushna Ugale
StelMec



Mr. Unmesh Pawar
Trueview



Mr. Tejas Kotkar
Trueview



Mr. Kishor Bute
Epiroc

Major Equipments and Labs



Skf Gx Series FFT Analyzer



Lathe CNC Trainer



Petrol Engine



Diesel Engine Test Rig



Compressor



Vibration Lab Test Rig



CAD/ CAM/ CAE Lab



Metallurgy/ Metrology Lab



IC Engine Lab



Turbo Machinery Lab



Theory of Machines Lab



Dynamics of Machinery Lab



Fluid Mechanics Lab

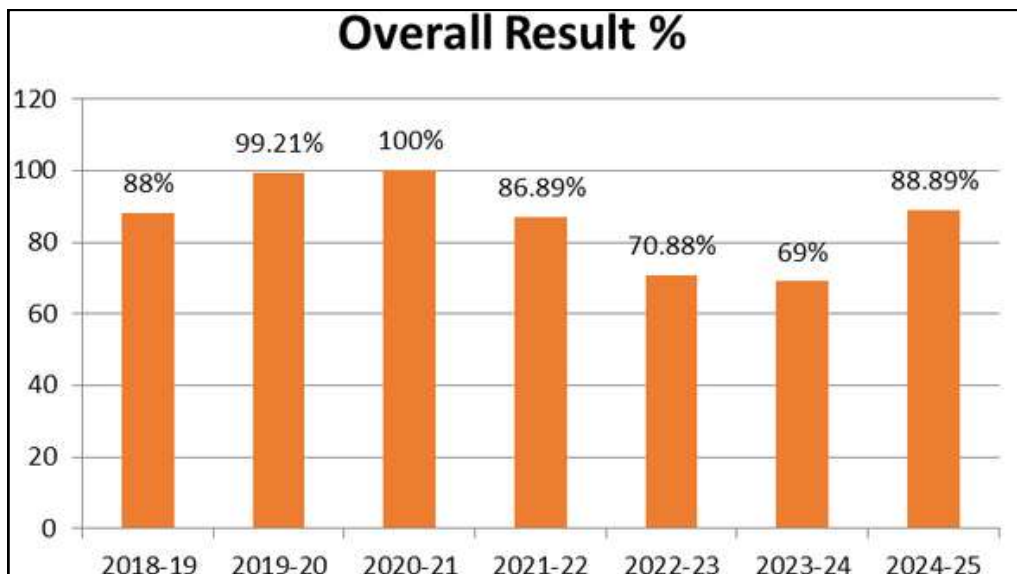


Workshop



Heat Transfer & Refrigeration Lab

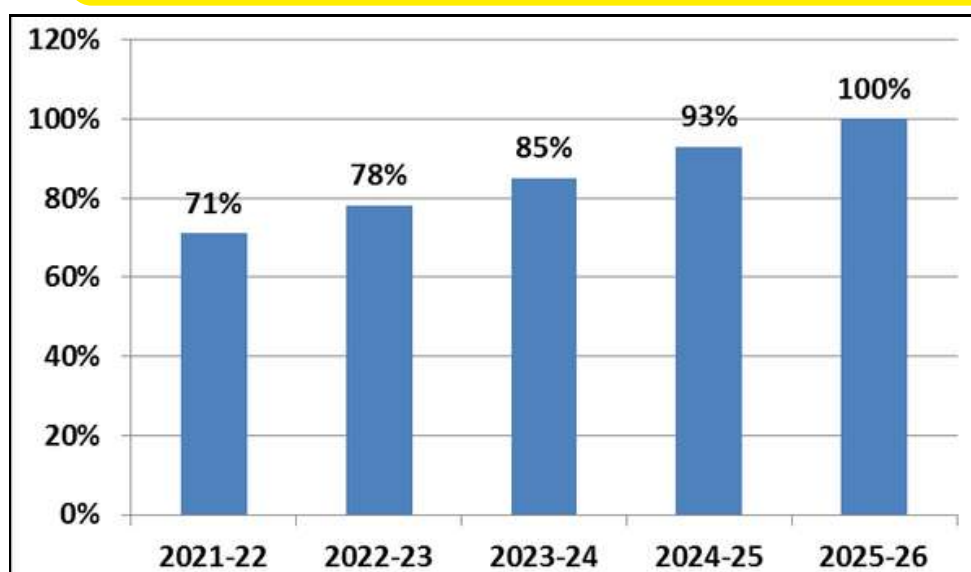
Year wise Result for last 5 Years



Department Topper List for Last 5 Years

Year	Name of Students	CGPA
2018-19	MAJGAONKAR VISHWAJEET	9.01
2019-20	NERKAR MAHESH	9.21
2020-21	SHIVANSH MISHRA	9.16
2021-22	SONAWANE CHINMAY	9.74
2022-23	DEV PRANAV PRASAD	9.08
2023-24	WAGHODE SAYALI PRAMOD	8.46
2024-25	SURYWANSHI VIVEK RAJENDRA	8.78

Department Placement for Last 5 Years



Guest Lectures / Workshops / Seminar



Mahindra Pride: Opportunities and Soft Skills for Aspiring Engineer



Category Management for Mechanical Engineering



Global Education: Guest Session by ASAC on Study Abroad



Advanced Process Modelling Techniques in AI and steel Mfg.



Defence R&D Careers: DRDO as a Career Destination



Role of Mechanical Engineers in MAHAGENCO



Alumni Talk on Entrepreneurship for Mechanical Students



Career Opportunities in Piping Design Engg. and Construction



Seminar by CAD-CAM GURU



FDP on Ansys Software



Workshop on Microcontrollers, Embedded Systems, and Electronic Circuits



Workshop on UHV

SAE: Multidisciplinary Project by Team ORKA

E Bike Name -X60



Venue

Galgotias University - Greater Noida
Uttar Pradesh
14th to 18th April 2023

E Bike Name -X60

E-Bike Specification

- Li ion battery 60V, 40Ah
- Motor Capacity 2000W
- Range 70km - 80 KM per charge which varies based on speed.
- 3 mode run- top speed is 60km/h
- Retrofit bike

Winning Award Categories

- AIR 1
- Champion- ISIE E -Bike challenge Event-2023
- 1st Prize of Rupees 50,000/-
- Best Off-Road Award -Rs 10,000
- Future Award -Rs 5,000/-
- Runner-up Durability - Rs 5,000/-
- People's Choice Award- Rs 5,000/-
- Total Cash Prize: Rs. 75,000/-



शनिवार, २२ अक्टोबर २०२२

...या खास फीचर्सच्या सामावेश

शुभवार्ता

या संघामध्ये आलिखितोही 'पिन' ई-वार्डक अव्वल ठरली असे वार्डक विद्यावन करणान्या अधिक रेंज देण्यात सक्षम असल्याचा विद्यालयांनी दिली. ई-वार्डक सहाय्यी मिळत असणाने, यात

रहितिवरज्या मॅटॉसिपामध्ये विद्याप्राप्ति
रहा. तरुण इंजिनिअर व कलेजमधील
विद्यार्थ्यांनी केलेल्या सौत मिळवलेले
यस्ता गुरूराया सानोद सौतर्नकलेज
सर्वांचा यो जन. फलतः ये हे. याबाईक
सोशलमस्तीये बवर दरबाहते सृष्टीलेमि
या विद्यार्थ्यांचे यटकापते.

...हे आहेच विजेते

आर. एन. सुपट इंजिनिअरिंग महाविद्यालयाच्या संघामध्ये सहयोगी कारखाने/अंशकां 'ब' संस्थानमध्ये निमज करणे, मयूर देशाज, अक्षय देसले, शुभम ओली, विद्यम रगोव्याडे, कृषी कोसरे, केतकी गोयकम, अथर्व ओसरे, प्रथिपक मेहेते, अश्वय पेठेची आणि 'क' संस्थान देशाज. या विद्यार्थ्यांना मार्गदर्शना हों. प्रांतांत विजयपळे आणि डॉ. संदीप देटे या प्राध्यापकांचे मौलिक सहकार्य लाभले.

स्पष्ट अभियांत्रिकीच्या विद्यार्थ्यांची बाइक ठरली अव्वल

राष्ट्रीय स्तरावरील 'एसआयईपी हीरो ई- बाइक चॅलेंज'मध्ये पारितोषिक



प्रा. स्वयन्त्रात सोनवणे, रवी टॉरें यांचे मार्गदर्शन लाभले.

स्पर्धेसाठी विविध राष्ट्रांतून ४१ संघांनी सहभाग नोंदविला. स्पर्धेसाठी संघातून अधिक निघातले काटेकोरपणे पाहून करून अक्क्या तीन महिन्यात ही दुसरी विश्वावर्षीही साकारली. स्पर्धेत वेगवेगळ्या फेरीच्या माध्यमातून सादर केलेल्या सर्व दुसऱ्यांवी औद्योगिक क्षेत्रातील प्रगतिगत तंत्रज्ञांनी त्यामागे

अनेक शासनांतून मूल्यमापन केले. विविध शासनांमध्ये ठरकृत कामगिरी द्यावत एकम-६० या इ-शासनाचे राष्ट्रीय स्तरावरील कॉम्प्युटेशनचा पुराव्यात मिळवला. सर्वोत्तम ऑफिशियल शासनांमध्येदेखील प्रथम क्रमांक पटविल्या. सशस्त्र अधिपतींशी महाविद्यालयातील विद्यार्थ्यांशी कामगिरीबद्दल राष्ट्रीय स्तरावर ७५ टक्के सराफेचे प्रथम क्रमांकाचे

पारितोषिक त्यांना प्रदान केले. तसेच प्रथम लोकनिवड पुरस्कार आणि गावोच्या कृष्युत्पिठोमात्रो दुसरो क्रमांकोखोल इ-बाईकत प्रता हातलो.

महोविद्यालयच्या ओरका संघोपो याव्युखोल ऑक्टोबर २०२२ मण्यो एसआरएस विद्यावोट (वेब) मेरो एसएर-इंधिया योनी अण्योवित केरोत्यो नवनयनी इ-बाईक तयार करण्योव्यो राठोरो स्पेरोत प्रथम क्रमांको प्रात केरोत्यो.

असे आहेत एक्स-६०
ई-वाइकची वैशिष्ट्ये

डिजिटल स्वीडोमीटर, जलरोधक आयपी ६५ बॅटरी पॅक, फोनद्वारे नियंत्रित करता येणारा स्मार्ट बॅटरी पॅक, विशेष म्हणजे गाडीचे सर्व भाग हे महाविद्यालयातील वर्कशॉपमध्ये बनविण्यात आले.

आधे विद्यार्थ्यांच्या कामगिरीबद्दल संस्थेचे सचिव डॉ. पी. स. गेसावी, मान्य संस्थापक व्यवस्थापन संचालक डॉ. दीपक शिंदे, आचार्य संचालक शैलेश गेसावी, प्रकल्प संचालक पी. एम. देसाई, प्राचार्य पी. सी. कुलकर्णी यांनी विद्यार्थ्यांचे अभिनंदन केले. प्रकल्पात विनम्र भणगे (कॉफीथर), चा दामपुत्र, कवच देसरे, शुभम जोशी, सिद्धार्थ कटारगे, हरीश सोनवणे, तेजल मांडवकर, जाई जोशी, प्रमोद देसाई, जयवंशी वंदरे, अरुण सप्रेम, राधा संगडे, हितरा भागवत, रिश्वान सिवाजी, येदोन आवळे, सावंत जोशी, तेजस राठोडे, अर्पिका पायव, मधुर धर्मांडी आदी सभासद होते.



All India

Rank
96
outoff
126



The 7th edition of SUPRA SAEINDIA

scheduled from 11th June to 14th June 2018 at BIC,

Greater Noida UP. It was sponsored by Maruti suzuki.

The Team RC Racing has got All India Rank 19 rank out of 126.



E Bike Name- Vayu 35



SAEINDIA – ETWDC 2023

Venue

Rajalakshmi Engineering College, Chennai Tamil Nadu
22nd & 23th July 2023

E Bike Name- Vayu 35

E-Bike Specification

- Li ion battery 48V, 24Ah
- Motor Capacity 1000 W
- Range 40 km - per charge which varies based on speed.
- 3 mode run- top speed is 35 km/h

Winning Award Categories

AIR -2

- Overall Performance 2nd Rs. 50,000/-
- Innovation 1st Rs. 10,000/-
- **Total Cash Prize: Rs. 60,000/-**



Industrial Visits



Dhumal Industries, Sinnar, Nashik



Agro Export (Cold Storage), Ambad, Nashik



Zentech Ltd Satpur, Nashik



Sanjay Tyres, Ambad, Nashik



Nilgiri Bagh Water Filtration Centre, Nashik



ST Workshop at Peth Road, Nashik



Unnati Engineers, Ambad, Nashik

Department Faculty Members

Sr. No.	Name of Faculty	Designation	Qualification/Specialization	Experience (Years)
1	Dr. Nehe P. B.	Associate Professor & HOD	Ph. D, M. Tech (Thermal & Fluid) , IIT Bombay	25
2	Dr. Kulkarni P. C.	Emeritus Professor	Ph.D. (IIT Kanpur), M.Tech (Prod.)	37
3	Mr. Chaudhari D. S.	Assistant Professor	M. Tech (Mech CAD-CAM)	19
4	Mr. Bhosale C. K.	Assistant Professor	M.E. (Heat Power)	18
5	Dr. Kokate Y.D.	Assistant Professor	PhD.Mech. (M.E.Heat Power)	16
6	Mr. Mandlik V. T.	Assistant Professor	M. Tech (Heat Power)	16
7	Mr. Dawange S. V.	Assistant Professor	M. E.(Design)	16
8	Mr. Chintamani L. B.	Assistant Professor	M.E. (Heat Power)	16
9	Mr. Tarle R. A.	Assistant Professor	M. E.(Design)	14
10	Mr. Ghode M. K.	Assistant Professor	M. E.(Design)	15
11	Mr. Sonawane S. H.	Assistant Professor	M. Tech (Thermal & Fluid)	15
12	Mr. Pawar R.S.	Assistant Professor	M. E.(Design)	16
13	Mr. Fanisam M.BN.	Assistant Professor	M. Tech.(Machine Design)	12
14	Mr. Salve A.K.	Assistant Professor	M. Tech (Mech CAD-CAM-CAE)	11
15	Mr. Kudal G. B.	Assistant Professor	M.E. (Heat Power)	9
16	Mr. Phad K.S.	Assistant Professor	M. E.(Design)	14
17	Mr. Sonawane A.P.	Assistant Professor	M. E.(Design)	14
18	Ms. Thakare R.S.	Assistant Professor	M. E.(Design)	7

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3	Mr. Bhavsar C.A.	Lab Attendant	MCVC, ITI & Diploma in Automation	17

