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St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)

St. Joseph's Group of Institutions
Jeppiaar Educational Trust

OMR, Chennai - 119.



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)



AY 2023-24

S. No	Name of the activity	Date / Duration of the activity
1	Drone Design Challenge 2023	21/07/2023 to 23/07/2023
2	Virtual BAJA 2024	
3	Student Convention 2024	
4	BAJA SAE INDIA 2024 (M-Baja)	
5	BAJA SAE INDIA 2024 (E-Baja)	
6	ATVC Championship	

Student Representative for Academic Year 2021-22

	PostAssigned	NameOf Student	EmailId	PhoneNo.
1	Chairman	Roshan K P	dhanushsjce@gmail.com	9159107279
2	Vice-Chairman	Anirudha. H	anirudhah007@gmail.com	8148195100
3	President Elect	Aloysius Antony	aloysiusantony@gmail.com	7092835739
4	Secretary	Siva Subramanian. K & Sivaganesan. K	sivaganesan196@gmail.com	8056439689
5	Treasurer	Sanjay Sriram .K	Sanjay.ss09@gmail.com	8072137545
6	Social Media	Abishek N	Abi4sek@gmail.com	9791067916

Drone Design Challenge 2023

- **Objective:** To nurture innovation and aero design skills among students, preparing them for India's emerging Uncrewed Aircraft System (UAS) market.
- **Contest Structure:**
 1. **Phase 1 (Design and Technical Presentation):**
 - Teams present innovative designs virtually.
 - Industry and academic experts evaluate designs.
 - Top 20 teams proceed to Phase 2.
 2. **Phase 2 (Flight Test and Final Presentation):**
 - Build UAV prototypes.
 - Present technical details.
 - Conduct flight tests.
 - Prizes awarded to top 7 teams.
- **Registration Guidelines:**
 - Registration Fee: ₹15,000 + 18% GST per team.
 - Teams consist of 5 to 10 students from various disciplines, guided by a faculty advisor.
 - Student membership in SAEINDIA is mandatory.





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DEPARTMENT OF MECHANICAL ENGINEERING

**SAE STUDENT CHAPTER ACTIVITY
CONGRATULATIONS**

The Management, Principal, Head of the Department and Faculty members are pleased to congratulate team **AQUILA SQUADRON** from final year, Department of Mechanical Engineering for having secured **19th Position at National Level** and **4th position at Tamil Nadu Level** in the **Drone Development Challenge 2023**, organized by **SAE INDIA** on 21st July 2023 -23rd July 2023 at Rajalakshmi Engineering College.

S.no	Register no	Name
1.	312320114001	Aaron Felitto M
2.	312320114011	Aloysius Antony
3.	312320114020	Arockia Robinson A
4.	312320114021	Arockya Marklinse U
5.	312320114025	Badhrinath S
6.	312320114042	Giridharan D V
7.	312320114108	Rojer John R
8.	312320114112	Safin Fernando S
9.	312320114146	Vinay Santosh S
10.	312320114336	Vijaysekar R
FACULTY MENTORS		
1.	Mr. T. Balasubramanian., M.E., (Ph.D)	
2.	Mr. K.M. B. Karthikeyan., M.E., (Ph.D),	

CHAIRMAN

090823

Student Convention 2024



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SAEINDIA
Society of Automotive Engineers INDIA

Students Convention Challenge

List of events

Geometric Dimensions & Tolerancing

Computer Aided Manufacturing

Technical Paper Presentation

Business Plan Competition

Mobile Robotics

Bridge Building

Welding

Sheet Metal

Biomimicry

Auto Quiz

Event conducted on Oct,25
(tentatively)

Exclusive for SAE members

Scan for event rules
and instructions





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DEPARTMENT OF MECHANICAL ENGINEERING

SAE INDIA STUDENT CONVENTION 2024



In Association with Institute Innovation Council (IIC) and IQAC



DATE : 26/10/2023

CAD Lab, St. Joseph's College of Engineering



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Mechatronics Lab, St. Joseph's College of Engineering



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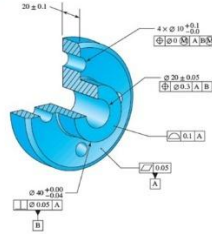


DEPARTMENT OF MECHANICAL ENGINEERING

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DATE : 26/10/2023

Welding Event

Basic Workshop, St. Joseph's College of Engineering



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BAJA SAE INDIA 2024

The BAJA SAEINDIA competition is an exciting event that challenges engineering students to design, build, test, and validate single-seater all-terrain vehicles (ATVs).

- Preliminary Round (Phase 1):
 - ❖ Scheduled in July 2022.
 - ❖ Teams present their finalized ATV designs and implementation plans virtually.
 - ❖ Focuses on technical and professional capacity.
 - ❖ Conducted online.
- Virtual BAJA SAEINDIA (Phase 2):
 - ❖ Incorporates both Virtual Dynamic Events and Digital Static Events.
 - ❖ Virtual Static Events include Design, Cost, and Sales Presentation evaluations.
 - ❖ Dynamic Events (e.g., Maneuverability, All Terrain Performance) are held virtually using benchmarked Automotive Simulation software (IPG CarMaker).
 - ❖ Tests software knowledge, design understanding, cost efficiency, and business skills.
- Physical Round (Phase 3):
 - ❖ Conducted physically for mBAJA (January) and eBAJA (March) in 2023.
 - ❖ Evaluates buggies in events like Acceleration, Maneuverability, Suspension & Traction, and Endurance.
 - ❖ Initial technical evaluation also takes place

The M-Baja and E-Baja Students cleared the Phase 2 – Virtual event and M-Baja Team Aurelian Racing Team Cleared in top 100 teams out of 450 all over India and E-Baja Team Inferno Racing Team Cleared in top 50 out of 300 all over India. Both the teams participated in physical event conducted in Pithampur for M-Baja and Bangalore E-Baja.

mBAJA Team from our college Triumphs with Impressive Performance in 2024 Season



In a resounding testament to dedication and excellence, the mBAJA (Mini Baja) team from our college has etched its name in glory in the 2024 season, securing an impressive AIR (All India Rank) 26 and a commendable State rank of 6. Led by the guidance of Mr. T. Balasubramanian, our esteemed faculty advisor, this achievement stands as a beacon of inspiration for our college community.

From January 9th to 14th, 2024, the grounds of NATRAX, Pithampur, witnessed a fierce competition where our 24 Mechanical Engineering students showcased their prowess in automotive engineering

and off-road vehicle design. The journey to success was marked by a series of challenges, each conquered with unwavering determination and collaborative spirit.

The static events, including the Design Event, Sales Event, and Cost Event, served as platforms for our team to demonstrate not only their engineering ingenuity but also their marketing acumen and financial prudence. The innovative designs and strategic insights presented by our team resonated with the judges, setting a benchmark for excellence.

Navigating the stringent Technical Inspection (TI) process with finesse, our team showcased meticulous attention to detail and unwavering commitment to safety standards. This phase underscored our dedication to precision engineering and adherence to regulations, setting a strong foundation for success in the dynamic events.

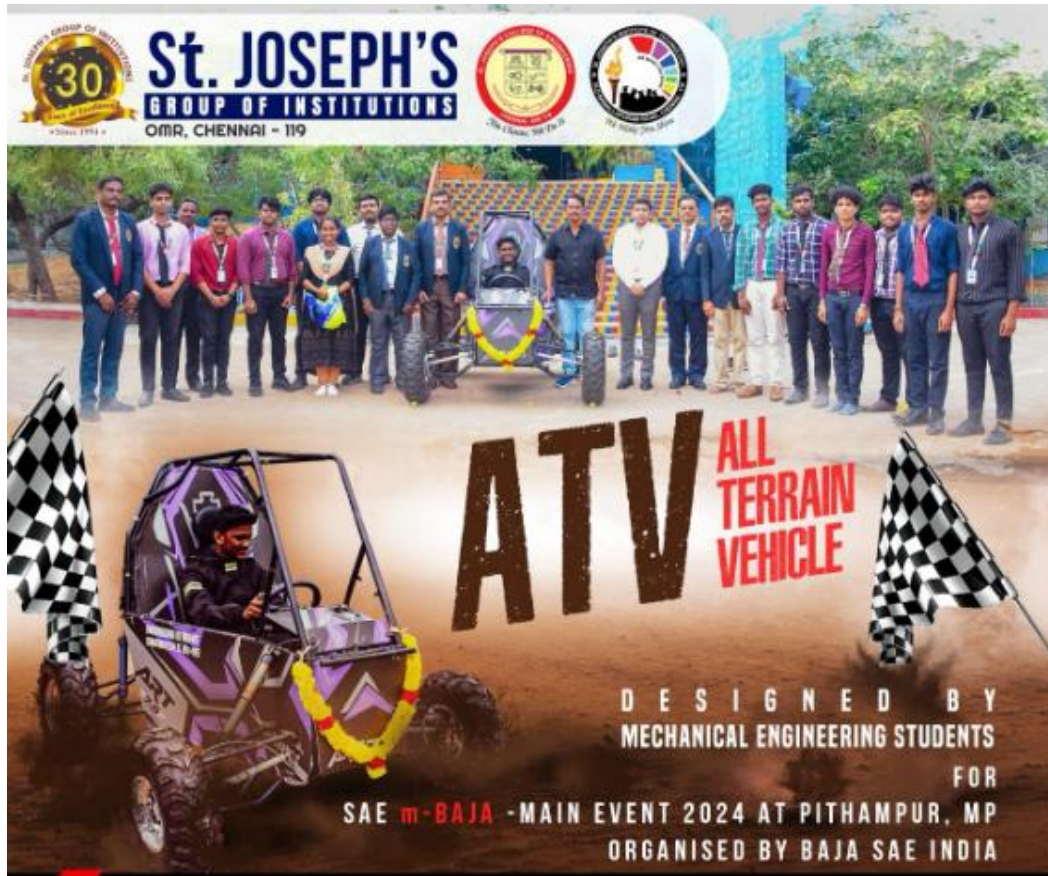
The dynamic events, ranging from the Brake Test to the exhilarating 4-hour endurance race, tested the mettle of our team and their vehicle in various aspects of performance and endurance. With each challenge, our team exhibited resilience, agility, and unmatched skill, earning admiration and applause from peers and judges alike.

Amidst the adrenaline and excitement, the spirit of camaraderie and sportsmanship prevailed, reflecting the ethos of our college. Our triumph is not merely a testament to individual excellence but a celebration of teamwork, perseverance, and the unwavering support of our college community.

In recognition of our stellar performance, the Chairman has extended Rs. 3.1L as a generous token of appreciation, further fueling our passion for excellence. This honor is a testament to the collective efforts and unwavering commitment of every member of the mBAJA team.

As we reflect on this momentous achievement, let us cherish the memories forged on this remarkable journey and draw inspiration from the indomitable spirit that defines our college community. The success of the mBAJA team in the 2024 season is a testament to our shared values of innovation, excellence, and the relentless pursuit of greatness.

In the annals of our college history, let this triumph serve as a guiding light, illuminating the path for future generations of students to dream big, work hard, and achieve greatness. Together, we stand as a testament to the transformative power of education, perseverance, and the unwavering spirit of our college.



M-Baja Buggy Poojai



E-baja Vehicle After Poojai





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Department of Mechanical Engineering



SAE Student Chapter Activity

CONGRATULATION CIRCULAR

The Management, Principal, Head of the Department and faculty Members are pleased to congratulate the 25 members of **Aurelian Racing Team 7.0** comprising Final, Third and Second year Mechanical students for successfully participating in the **SAE m-BAJA 2024** held at NATRAX, Pithampur, Madhya Pradesh from 9th to 14th January 2024, Organized by **BAJA SAE INDIA** and securing **AIR 26** with **State Rank of 6**.



Chairman



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SAE Student Chapter Activity CONGRATULATION CIRCULAR



The Management, Principal, Head of the Department and faculty Members are pleased to congratulate the 23 members of Aurelian Racing Team 7.0 comprising Final, Third- and Second-year Mechanical students for successfully participating and securing All India Rank 7 (out of 100 teams) in the Aravalli Terrain Vehicle Championship 2024 held at NMIET, Talegaon, Pune from 20th to 24th March 2024, organized by Infi League Motorsports.



Chairman