

## JSPM's Rajarshi Shahu College of Engineering, Tathawade

### 1. **Title:** Team Redline Racing

2. **Context:** Engineering has an assortment of fields to explore. All these range from mechanical to information technology with everything in between. An engineer's goal is very trivial. To create and apply natural phenomena for helping people and solving any problems. The team has a background in automotive design and manufacturing with mechanical at its core. However, with the rise of electric vehicles these past few years, the team also integrated electrical, electronics, information technology, and computer science to become a well-rounded team.

### 3. **Objectives:**

- a. To design and manufacture a safe, reliable, cost efficient and performance-oriented vehicle.

### 4. **Events:**

#### a. **Concept Challenge 2021**

Our primary objective was to develop an efficient and competitive electric vehicle concept that adhered to the Formula Bharat competition guidelines. Our focus was on integrating cutting-edge technology, optimizing performance, ensuring safety, and presenting a comprehensive business plan.

#### b. **Pi EV Concept Challenge 2022**

Our objective for Formula Bharat 2022 was to build a highly competitive electric vehicle that adhered to the competition guidelines, showcasing our technical expertise, innovation, and teamwork. We aimed to optimize performance, enhance safety features, and present a well-rounded business plan.

#### c. **SUPRA 2022**

Our objective in the SUPRA SAE INDIA 2022 competition was to design and build a highly competitive race car that adhered to the competition guidelines. We aimed to showcase our engineering skills,

teamwork, and innovative solutions while optimizing performance, reliability, and safety.

### **5. Advantages:**

- a. Understand crucial aspects of designing.
- b. Hands-on engineering experience.
- c. Develops critical thinking.
- d. A better understanding of subjects taught in class.
- e. Interact with the best engineers of our generation.
- f. Gain connections in the industry.
- g. Personal growth.
- h. Team building.
- i. Learn an assortment of techniques and software.

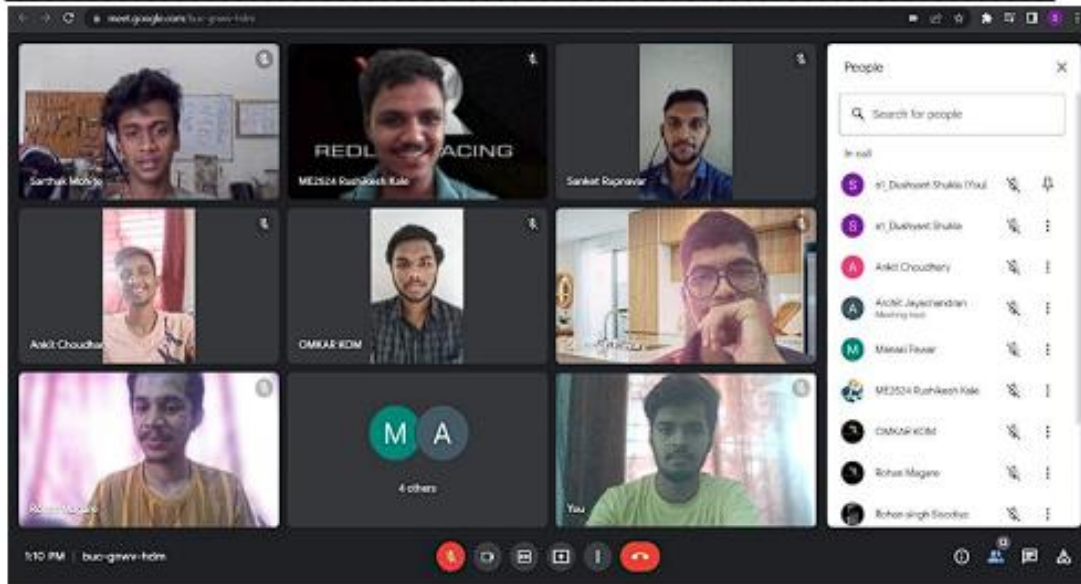
### **6. Challenges:**

- a. Gap in lockdown.
- b. Loss of important design data.
- c. Mechanical failures.
- d. Electrical complications.
- e. Issues securing funding.
- f. Difficult maintaining morale.

### **7. Results:**

SUPRA Overall	Ranked 12 <sup>th</sup>
SUPRA Design report	Top 10
SUPRA Cost report	Top 10
SUPRA Business presentation	Top 10
Concept Challenge 2021 Overall	Ranked 21 <sup>st</sup>
Concept Challenge 2021 TM	Ranked 12 <sup>th</sup>
Pi-EV 2022 Overall	Ranked 8 <sup>th</sup>
Pi-EV 2022 SI-AI	Ranked 6 <sup>th</sup>
Pi-EV 2022 Procurement Report	Ranked 2 <sup>nd</sup>
Pi-EV 2022 Engineering Design	Ranked 10 <sup>th</sup>
Pi-EV 2022 TM	Ranked 15 <sup>th</sup>

### **8. Glimpses these past years:**





**AWARDS CERTIFICATE**  
**PI-EV 2022** **TT**  
6TH ANNUAL FSEV CONCEPT CHALLENGE  
JUNE 17 - JULY 2, 2022

**E12 - Team Redline Racing Electric**  
JSPM'S Rajarshi Shahu College of Engineering  
**2nd Place**  
**Procurement Strategy**

Authorized by  
*Crystal Furtado*  
**Crystal Furtado**  
Event Manager - PIEV, an FSEV Concept Challenge  
A competition under the Formula Bharat series  
Hosted by Curiosum Tech Private Limited

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**ATHER**

BARCODE: PEV2022-AW-008

# RESULTS CERTIFICATE

## PI-EV 2022

6TH ANNUAL FSEV CONCEPT CHALLENGE

JUNE 17 - JULY 2, 2022



E12 - Team Redline Racing Electric

JSPM'S Rajarshi Shahu College of Engineering

Submission	Team Score	Out of	<b>TOTAL 276.31 / 400</b> <b>RANK 8</b>
Procurement	64.32	75	
Team Management	49.21	75	
Engineering Design	129.09	200	
Software	33.68	50	

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