

# Auto India Racing Championship 2018

## Pune , Maharashtra .

**Venue – PCNTDA Traffic Park, Moshi, Pune**

Auto India Racing Championship 2018 is a **GO-KART** racing event, where under graduate and graduate students are given opportunity to design and fabricate their four wheeled vehicle. This event is an intercollegiate design competition for engineering students. The vehicle must be highly engineered, safe and ergonomically designed. The purpose of the event is to provide an opportunity for engineering students to develop their skills and also their stepping stone in automobile sector in India and come up with some innovative designs. Students have to tackle real world engineering problems, work in multidisciplinary teams, practice design for manufacturability and manage a full product development cycle of life.

The Competition includes designing, fabricating and validating a four wheeled vehicle driven by one driver. The vehicle would be capable to be driven by one driver on gasoline. The vehicle would be evaluated for its design, performance, safety, durability and the teams compete against each other. The cumulative scores of all the events would decide the overall ranking of the teams in the event.

The event contained following activities :

**Day 1** - 17th February - Registration and reporting of the team and the kart.

**Day 2** - 18th February–Evaluation And Submission of Design & Cost Report , Technical Inspection

**Day 3** - 19th February–Break Test , Acceleration , Auto-Cross, Skid Pad.

- **Day 4** - 20th February–Qualifying Endurance, Main Endurance, Night Endurance
- **Technical Inspection and Design evolution** : The Technical inspection consist of evaluating the manufactured kart as per the event rulebook and the kart fulfilling all the criteria are the organizers inspect the kart. If all the design specification and the safety criteria are fullfied then the kart is passed for the further activities.
- **Design evolution& Cost Report:** Design evolution of the further round design and manufacturing kart and a questioning on the process end the selection of the material for manufacturing. The maximum points for this round are 100. In cost report we have to show material / equipment's purchased bills for manufacturing of kart.

- **Brake Test:** It's mandatory for a vehicle to pass the brake test to participate in any of the dynamic events. The vehicle must stop in a straight line after the brake is applied on the vehicle. Each vehicle will be given 2 attempt stop as the brake test. Vehicle's speed must not be less than 45 kmph while attempting brake test.
- **Acceleration Test:** Acceleration determines the time it takes the vehicle to accelerate along 100ft(30.48m) flat course. Each team may take two attempts but with different drivers. Scoring was based on better of two attempts
- **Autocross:** In this test, 10 hardels are kept at the distance of 3m from each other, and the kart is driven passing this hardels. to check the stability and steering alignment of the kart. the maximum points for this test is 80.
- **Skid pad:** In this test, the track is been marked with the figure 8, and thus the kart has to be driven in following the marked boundaries of the track to complete this task. The maximum points for this test are 80.
- **Endurance test:** The Endurance Event is designed to evaluate the overall performance of the vehicle and to test the vehicle's reliability. Teams are free to choose any top speed. The each kart participating in this test has to complete 5 laps within the given fuel.

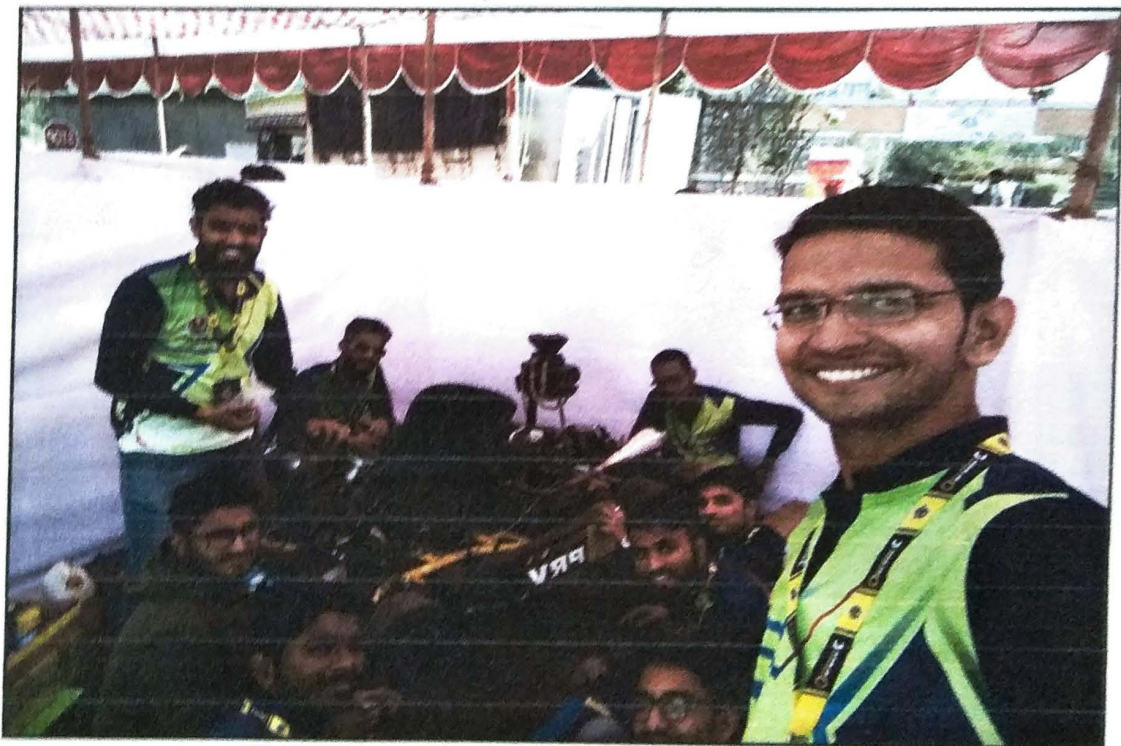
## Glimpses at Auto India Racing Championship 2018,Pune , Maharashtra

Event Notifications:



### AUTO INDIA RACING CHAMPIONSHIP 2018

PUNE, MAHARASHTRA



Team Black Spanners giving final touch to Go-Kart " Pravega".



Team Black Spanners burning up track at AIRC Pune

**Achievements:**

Prof. Tapase Sunil Nandkumar has Secured National level award of "Dronacharya" at AIRC Pune.

**JOURNEY BEGINS WITH PASSION**

Presented by **SCS Technology** Associated with **Parvati Bai Ganba Moze College of Engineering**

**Certificate of Dronacharya 3**

This is to Certify that  
Mr./Mrs. *Prof. Sunil Nandkumar Tapase*  
has Awarded 3rd Best Faculty Advisor in AIRC-2018 Season 2 representing team *Black Spanners (JSPM-NTC PUNE)*

We wish him/her all the best for the future.

*Pratik*  
**Mr. Pratik Satav**  
Convenor  
(AIRC, Wagholi, Pune, MH.)

*Rambhau*  
**Hon Shri Rambhau Moze**  
Founder President  
(P.G.Moze COE, Wagholi, Pune, MH.)

**AUTO INDIA RACING CHAMPIONSHIP SEASON-2**

Our Sponsors & Partners  
**Rahitech** **Eksun 3D** **Parvati Bai Ganba Moze College of Engineering**



### Certificate of Participation

#### Conclusion:

- Prof.S.N.Tapase secured National level award named as "DRONACHARYA" in Auto India Racing Championship 2018.
- We successfully completed all the tests and competed in the final Endurance,fuel economy test and 3<sup>rd</sup> runner up in endurance race.

*S.N. Tapase*  
Prof. Tapase S.N.  
Gokart - Faculty Co-ordinator.

*S.N. Tapase*  
Head  
Department of Mechanical Engineering  
JSPM Narhe Technical Campus  
R.S.S.O.E. & R. Narhe, Pune - 411041.

## **International Series Of Karting(ISK)-2018**

**Vizag ,Andhrapradesh,India.**

**“International Series of Karting”** is an initiative taken by **“Mean Metal Motors”** to increase India’s impact on worlds of motorsport engineering. 120 teams around the world will be competing to make their own Go-kart according to **FIK-CIK** regulations and race it on the track.

It is an event to give a platform for Graduating and diploma students to fabricate an innovative Go-kart under a well shelled rule book. The challenge takes place in two stages, 1st is Virtual round and 2nd is Final round. The challenge consists of several tests which are to be performed by the vehicle, successfully clearing each test and the task decides the existence in the competition.

The event was held between **26 February 2018 to 1st March 2018**. This was an international level event. There were 35 teams participating in this event, thus our **Team Blackspanners2.0** represented our college at this nation level Go-karting event.

The event contained following activities as follows:

Day 1 – 26<sup>th</sup> February - Registration and reporting of the team and the kart.

Day 2 – 27<sup>th</sup> February- Technical-Inspection, Design evaluation.

Day 3 - 28<sup>th</sup> February - Brake and Acceleration test and Manipulative test,

Qualifier round and Quarter final.

Day 4 - 1st March – Semi-Final And Final Race.

**Technical Inspection and Design evaluation:** The Technical inspections consist of evaluating the manufactured kart as per the event rulebook and the kart fulfilling all the criteria are the organizers inspecting the kart. If all the design specification and the safety criteria are fullfied then the kart is passed for the further activities.

**Design evaluation:** Design evaluation of the further round design and manufacturing kart and a questioning on the process end the selection of the material for manufacturing. The maximum points for this round are 100.

**Manipulative test:** In this test, the random track is made and the driver is said to drive the kart and complete the task as early as possible. Thus the test of driver as well as the kart is been done.

**Brake and Acceleration test:** In this test, the kart is accelerated for first 100m & then brake is applied for the next 50m to check the breaking of the kart. And if the kart is stopped within the given distances the kart is passed the test. The maximum points for the round are 70.

**Qualifier round:** In this round, all the team karts are allowed to race for 30 laps, thus the team that sustains till the last lap are qualified to perform in the next round.

**Quarter final:** In this round, first 4 teams are qualified to perform in the semi-final round.

**Semifinals:** In semi-finals, all the 4 teams perform for qualifying in final race. Thus first 2 winning teams are competing in final race.

**Finals:** The 2 finalist teams perform to win the cup.



**Glimpses at International Series Of Karting(ISK)-2018**

**Vizag ,Andhrapradesh,India.**

**Event Notification:**

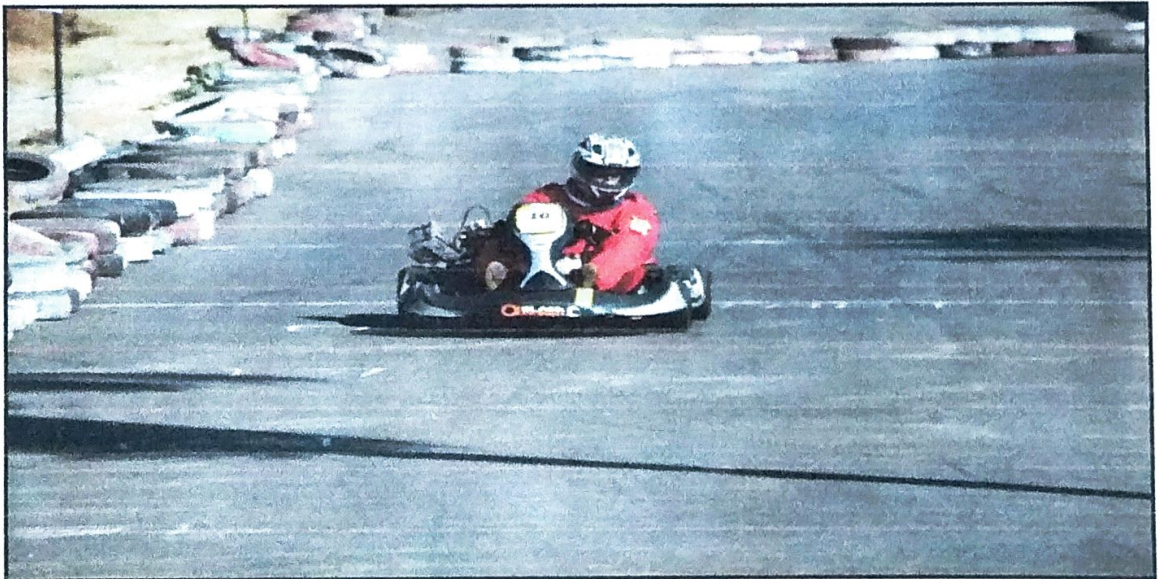




Team Black Sappers at ISK 2018 at Vizag, Andhrapradesh.



Critically designed track at ISK , Vizag.



Team Black Spanners Burning up track at ISK Vizag



## **Zeal Educational Society, Narhe, Pune. 2017**

### ***Presents***

## **Zeal Drag 2.0, Motorsport Racing.**

### **Zeal College of Engineering and Research, Narhe, Pune.**

This is group of technically sound engineers, which aims to organize go kart racing event at national level to provide platform for the engineering students to showcase their talent, innovative ideas and skills. It also aims to promote the motor racing as a sport across the country. The object of the competition is to implement good engineering practices, design projects and their related research work.

### **ZEAL DRAG 2.0**

Every year number of events is organized throughout India. ZCOER is presenting a New Concept of Competition "**DRAG 2.0**". Drag racing is a type of motor racing in which karts compete, usually two at a time, to cross a set finish line. The race follows a short, straight course from a standing start over a measured distance. Electronic timing has been used to record race results.

It is an event to give a platform for Graduating and diploma students to fabricate an innovative Go-kart under a well shelled rule book. The challenge takes place in two stages, 1st is Virtual round and 2nd is Final round. The challenge consists of several tests which are to be performed by the vehicle, successfully clearing each test and the task decides the existence in the competition.

The event was held between **23rd March 2018 to 25th<sup>th</sup> March 2017**. This was an international level event. There were 5 teams participating in this event, thus our **Team Blackspanners2.0** represented our college at this nation level Go-karting event.

The event contained following activities as follows:

Day 1 - **23rd March** - Registration and reporting of the team and the kart.

Day 2 - **24rd March** - Assembly and disassembly test of the kart, Technical-Inspection, Design evaluation.

Day 3 - **25rd March** - Speed Snap, Auto-cross and skid pad.

Day 4 - **25rd March** - Entrepreneurship plan, Endurance and fuel economy.

Overall marking will be based on score at virtual round (20%) and main event round (80%).

Sr no.	Category	Maximum Marks
1	Vehicle Design Vs Analysis	100
2	Cost Report Vs Vehicle Cost	50
3	Design Report Discussion	75
4	Innovation (Implementation)	75
5	Business case presentation	50
Sr.No	Particulars	Maximum Marks
1	Skid Pad	50
2	Auto cross	50
3	Drag Race	100
4	Endurance	150

**The event contained following activities:**

**Technical Inspection and Design evolution:** The Technical inspections consist of evaluating the manufactured kart as per the event rulebook and the kart fulfilling all the criteria are the organizers inspecting the kart. If all the design specification and the safety criteria are fulfilled then the kart is passed for the further activities.

**Design evolution:** Design evolution of the further round design and manufacturing kart and a questioning on the process end the selection of the material for manufacturing. The maximum points for this round are 75

**Brake Test:** It's mandatory for a vehicle to pass the brake test to participate in any of the dynamic events. The vehicle must stop in a straight line after the brake is applied on the vehicle and the wheels on which the brake mechanism is acting must get locked immediately after pedal is pressed as well as break light blink.

**Autocross:** In this test, 10 hurdles are kept at the distance of 3m from each other, and the kart is driven passing this hurdles. To check the stability and steering alignment of the kart. The maximum points for this test are 50.

**Skidpad:** The objective of the skid-pad event is to measure the vehicles cornering ability on a flat surface while making a constant-radius turn. The skid pad layout may be a figure of 8 or „S“ depending on the track condition but minimum track width will be 3m and shortest turning radius 2.5m. Each team may make one attempt.

**Endurance and the fuel economy:** In this test, the each kart participating in this event has to complete 30 laps within the given fuel. Thus the durability and the fuel economy of the kart is checked. The maximum points for the test are 150.

## Glimpses at "ZEAL DARG 2.0" ,Pune, Maharashtra.

### Event Notifications:



**ZEAL EDUCATION SOCIETY'S**  
**ZEAL COLLEGE OF ENGINEERING AND RESEARCH**  
Approved by AICTE, New Delhi and Affiliated to Savitribai Phule Pune University  
S. No. 30, Narhe, Pune - 411041, India. Phone : +91 20 67296300  
Organised by: Department of Mechanical Engineering

**ZEAL DRAG 2.0**  
NATIONAL level GO-kart Championship!

**2018**  
REGISTRATION  
STARTS 1<sup>ST</sup> OCTOBER 2017

Show your SUPREMACY !  
Create your own LEGACY !!

PRIZE MONEY OF **6** LAKHS

Featured Kart: Teles Smoking Pistons

www.zealdrag.com  
Scan to register online

Prof. Akshay K. : +91 81482 17829  
Prof. Pravin P. : +91 98603 84809

drag@zealeducation.com @zealdrag @zealdrag2.0





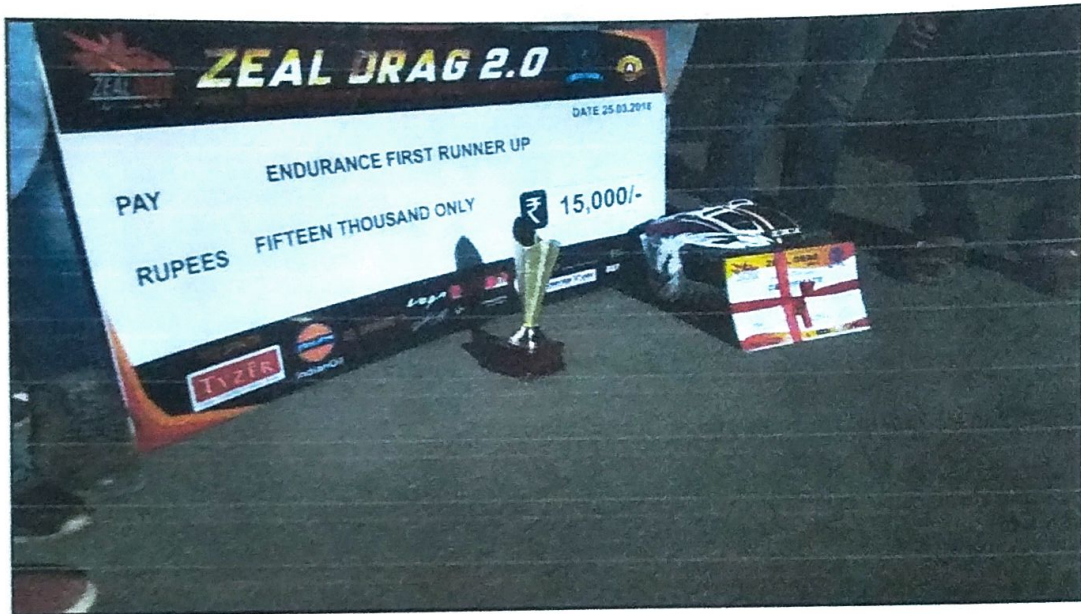
**Team Black Spanners performing Autocross event at Zeal Drag 2.0, Pune**



**Team Black Spanners with HOD Dr.Gawande J.S . at Cockpit at Zeal Drag 2.0, Pune**



**Achievements:**



Team "Blackspanners" secured first runner up in endurance winning a cash price of rupees 15000/- and a trophy.



Team Black Spanners secured award at Zeal Drag 2.0, Pune



Certificate of Participation in Zeal Drag 2.0

**Conclusion:-** We successfully completed all the test and competed in the final Endurance and fuel economy test and ranked as 1<sup>st</sup> runner up for this event.

*Mujawar*  
Prof. Tapase S.M.  
Go Kart - Faculty Co-ordinator.

*J.S. Katkar*  
Head  
Department of Mechanical Engineering  
JSPM Narhe Technical Campus  
R.S.S.O.E. & R. Narhe, Pune - 411041.

## **NEXUS MOTORSPORT**

*Presents*

**THE INDIAN KARTING CHAMPIONSHIP-2(IKC-2) (Jan 2018)**

**KOLHAPUR, MAHARASHTRA**

**VENUE –MOHITE RACING ACADAMY, KOLHAPUR**

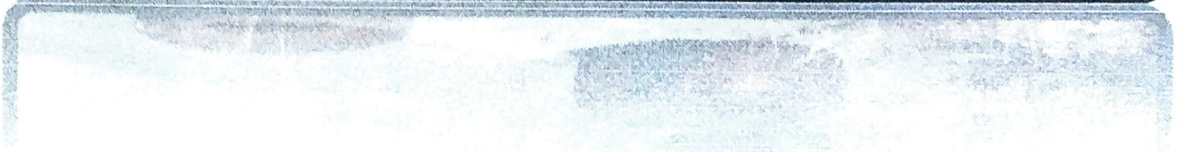
**The Indian Karting Championship** is an intercollegiate engineering design competition for undergraduate and graduate engineering students. The object of the competition is to implement good engineering practices, design projects and their related research work. Each participating student will learn, innovate and gain the experience of team work, leadership and the technical skills. The students must function as a team to design, engineer, build, test, promote and compete with a vehicle considering the few sets of rules applied by organizing committee. The organization also aims to provide an opportunity for students to be recognized at a national level for Research and Development careers in automotive engineering.

**Indian Karting Championship** is a Go-Kart design, manufacturing and racing competition initiated by the **Nexus Motorsport**, Pune. the competition involves static and dynamic stage and both are held at the trackside itself, the teams from various engineering college have to design, fabricate and race the vehicles by their own without any assistance of professional engineers.

The event was held between 12 January 2018 to 15 January 2018. This was a national level event. Colleges from all over India participated in this event. There were 87 teams participating in this event, thus our Team Blackspanners represented our college at this national level Go-karting event.

- **About event :**
- **Schedule:- ( 12 Jan 2018 to 15 Jan 2018 )**
- **Technical inspection (12 Jan 2018):** Before the dynamic event there will be TI (technical inspection) which does not carry any points but is necessary for participating in dynamic event. TI will be based on rule book parameter and safety checks of the vehicle. The team allowed only 2 chances for the TI test failing which the team will be considered disqualified for the dynamic events.
- **Skid Pad Test((14 Jan 2018):** The objective of the skid-pad event is to measure the vehicle's cornering ability on a flat surface while making a constant-radius turn. The skid pad layout figure of 8 of minimum track width 3 and shortest turning radius 2.5m.
- **Autocross Test (14 Jan 2018):** The objective of the autocross event is to evaluate the vehicle's cornering and handling qualities on a tight course without the hindrance of compete in vehicles. The autocross course will combine the performance features of acceleration, braking, and cornering into one event. The vehicle is staged such that the front wheels are 6m behind the starting line.
- **Time trial (14 Jan 2018):** This test was combination of acceleration, deceleration, skid pad and autocross test into one single heat. The time will start as soon as vehicle leaves the starting line of acceleration test and time will end as soon as vehicle touches finishing line of autocross test. The vehicle will have to clear all these tests without stopping vehicle.
- **Endurance test (15 Jan 2018):** The Endurance Event is designed to evaluate the overall performance of the vehicle and to test the vehicle's reliability. Teams are free to choose any top speed. The each kart participating in this test has to complete 5 laps within the given fuel

Glimpses at The Indian Karting Championship-2 (Jan 2018) Kolhapur, Maharashtra.





Certificates:

**INDIAN KARTING CHAMPIONSHIP 2**

**Mohite's**  
Racing Academy  
Track Partner

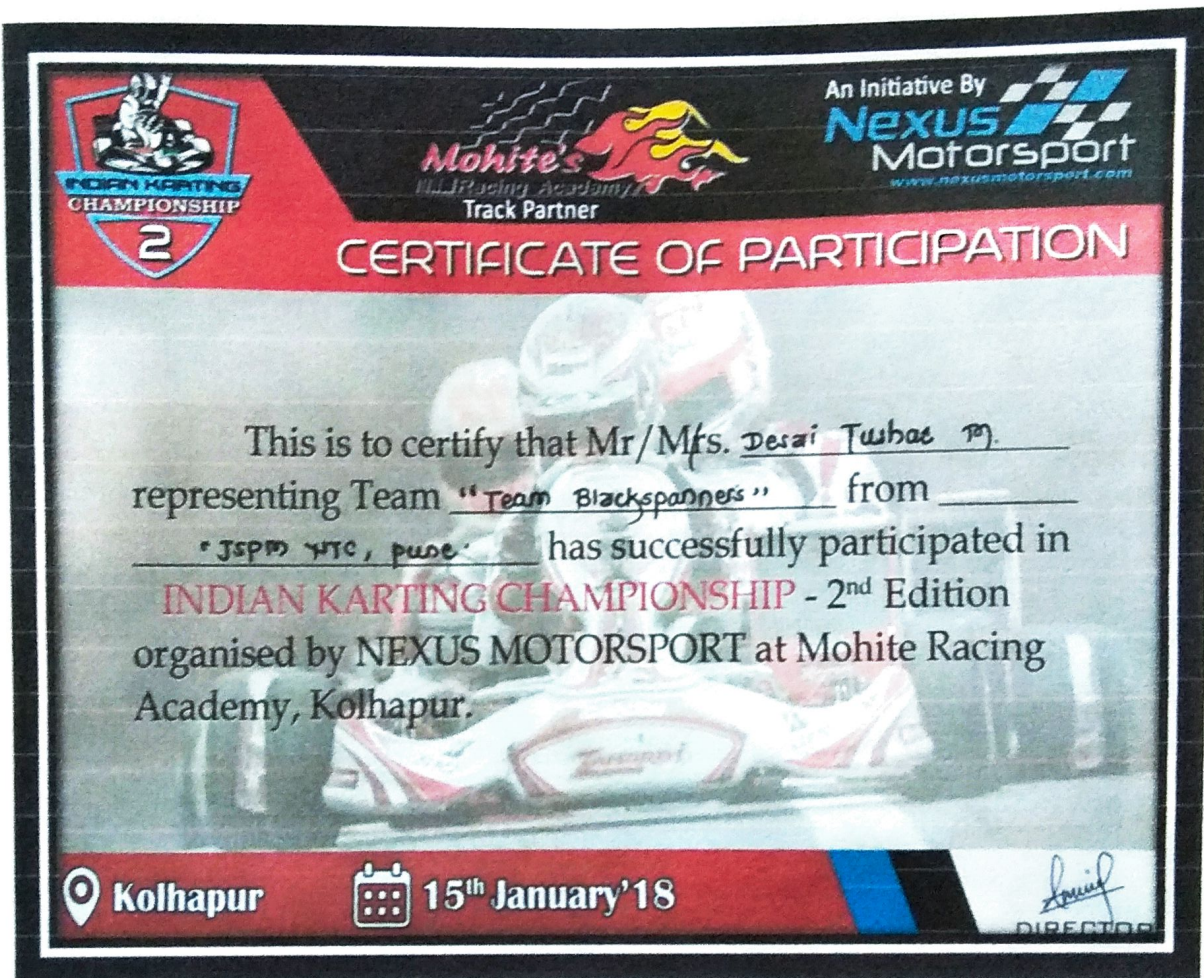
An Initiative By  
**NEXUS**  
Motorsport  
[www.nexusmotorsport.com](http://www.nexusmotorsport.com)

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Mrs. Patil Swaj Shivaji  
representing Team "Team Blackspanners" from \_\_\_\_\_  
JSPM NTC, Pune has successfully participated in  
**INDIAN KARTING CHAMPIONSHIP - 2<sup>nd</sup> Edition**  
organised by NEXUS MOTORSPORT at Mohite Racing  
Academy, Kolhapur.

**Kolhapur** **15<sup>th</sup> January '18**

**DIRECTOR**



**Conclusion:**

We Successfully completed all the test and competed in the semi-final Endurance and fuel economy test

*M. Narhe*  
 Prof. Tapase S.N.  
 Project - Faculty Co-ordinator

*[Signature]*  
 Head  
 Department of Mechanical Engineering  
 JSPM Narhe Technical Campus  
 R.S.S.O.E. & R. Narhe, Pune - 411041.





*Wapare*

Prof. Tapase S.N.

Go Kart - Faculty Co-ordinator

*ASR*

**Head**

Department of Mechanical Engineering  
 JSPM Narhe Technical Campus  
 R.S.S.O.E & R, Narhe, Pune - 411004



JayawantShikshanPrasarakMandal's

## JSPM Narhe Technical Campus

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Phone : +91 20 2460 8700, 701, 702 Fax : +91 20 2460 8888 Web : [www.jspm.edu.in](http://www.jspm.edu.in)  
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Prof. (Dr.) T. J. Sawant  
BE (Electrical), PGDM, Ph.D.  
FOUNDER SECRETARY

Prof. (Dr.) R. K. Lad  
B.E. (Civil), M.E. (Env. Engg.), Ph.D.(Engineering)  
DIRECTOR

Date: 03/11/2018

### Team Iornhead Supra

SAE (Society of Automotive Engineering) organizes the event SAE SUPRA each year sponsored by the MARUTI SUZUKI. Our college team IORNHEAD participating in that event from last two years. It is held at "BUDDHA INTERNATIONAL CIRCUIT NEW DELHI."

The students having lot of scope for improving their Technical, Marketing and Accounting skills in that event. The institute helps the students in financial and technical manner to improve the confidence of the students.





Jayawant Shikshan Prasarak Mandali's

# JSPM Narhe Technical Campus

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DIRECTOR

## REGISTRATION

# SUPRA SAE INDIA

No. 1/17, Caseros Arcade, 3rd Cross, Kasurba Nagar, Chennai - 600 020, India.  
Telefax: 91 44 2441 1004 e-mail: [admin@suprasaeindia.org](mailto:admin@suprasaeindia.org) Web: [www.suprasaeindia.org](http://www.suprasaeindia.org)

PAN NO: AADTS3913K

GSTIN: 33AADTS3913K1Z0

PLACE OF SUPPLY: MAHARASHTRA

RECEIPT

No. :42 /2018

Date: 28.12.17

Received with thanks from IRON HEAD

Institution: JSPM NARHE TECHNICAL CAMPUS

Address: PUNE, MAHARASHTRA

towards EVENT REGISTRATION / Sponsorship by Cash / Cheque / DD No. / Online Transfer /

dated: 28.12.17

Amount	RST	SGST	CGST
55000/-	8800/-	0	0

₹ 64900/-

For SUPRA SAE INDIA  
Authorized Signatory



JayawantShikshanPrasarakMandal's

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## PARTICIPATION CERTIFICATES





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## PHOTOGRAPHS





JayawantShikshanPrasarakMandal's

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B.E. (Civil), M.E. (Env. Engg.), Ph.D.(Engineering)  
DIRECTOR

## RESULT

SUPRA SAEINDIA 2018 OVERALL RANKINGS													
Overall Rank	Vehicle No	Team Name	College Name	Design	Cost	Mktg ppt	Acc.	Skid Pad	Auto cross	Endurance	EES	IAD Report Submission Penalty	Grand Total
				150	100	75	75	50	150	300	100	1000	

85	9	Aious Formula Student	Indira Gandhi Delhi Technical University	62.65	40.7	43.22					0.00		147
86	104	Aviators	Theem College Of Engineering	85.58	28.3	32.67					0.00		147
87	11	Blitzkrieg Racing	Galgotas College Of Engineering And Technology	98.91	16.6	30.84					0.00		146
88	4	Vijayanta	Chandigarh University	91.32	24.1	32.69					0.00	5	143
89	50	TEAM MH-08 RACING	RAJENDRA MAME COLLEGE OF ENGINEERING AND TECHNOLOGY	48.45	44.7	48.57					0.00		142
90	28	TEAM DRUTHA	COLLEGE OF ENGINEERING ADOOR	70.31	36.3	37.88					0.00	5	139
91	71	GENESIS MOTORSPORTS	Terna Engineering College	77.65	35.7	29.53					0.00	5	138
92	65	GEU Motorsports	Graphic Era University, Dehradun	90.25	16.0	34.17					0.00	5	135
93	43	TEAM SHIVAJI	CHHATRAPATI SHIVAJI INSTITUTE OF TECHNOLOGY	65.91	36.8	17.51					0.00	5	115
94	89	Team GreaseMonkeys	Birla Institute of Technology and Science KK Birla Goa Campus	50.45	45.1	33.57					0.00	20	109
95	123	Bullet Hawk Racing	Netaji Subhas Institute of Technology	76.98	0.0	28.86					0.00		106
96	42	IRON HEAD	JSPM NARHE TECHNICAL CAMPUS	43.45	50.2	44.74					0.00	5	103
97	37	MHSSC RACING	M. H. SABOO SIDDIK COLLEGE OF ENGINEERING	55.98	45.3						0.00	30	71
98	32	THE ELITE RACERS	S.B.JAIN INSTITUTE OF TECHNOLOGY MANAGEMENT AND RESEARCH	71.31	49.0						0.00	50	70
99	101	VE Motorsport	Vasavi College of Engineering	0.00	42.9	37.88					0.00	20	61
100	63	MechXhausters	National Institute Of Technology, Warangal	37.65	52.2						0.00	30	60

**SUPRA CO-ORDINATOR**

**HOD**

**Head**  
Department of Mechanical Engineering  
JSPM Narhe Technical Campus  
R.S.S.O.E. & R. Narhe, Pune - 411041.