

TEAM UNWIRED SEASON 10



WE DREAM FOR A REASON
#STAYUNWIRED

BORN IN
2010

WE LIVE LIFE
ONE TRACK
AT A TIME



#stayuntired_teamunwired



WE DO SMALL THINGS THAT MAKE A BIG IMPACT

Team Unwired is a student club at the National Institute of Technology Calicut, which undertakes student engineering projects and competitions.

We have been the pioneers of technical projects with an aim of providing students hands on learning which supplements classroom learning, strengthens fundamentals and cultivate skills that will help the students further their future endeavors.

HOW WE ACHIEVE LEADERSHIP



**collectively,
we are one big
dream machine.**

At team unwired we first
imagine a world where the
change we do makes an impact.
Then we strive to be the change
rather not witness the change



PROJECTS OF PASSION

PERFECTED WITH HOURS OF
DEDICATION AND HARDWORK

2013

FORMULA STUDENT UK KENNAMETAL UNLEASHED



Honda CBR 600 @ 8000 RPM
Torsen T-1 Limited Slip
Differential
AISI 4130 Chromoly chassis
Fiberglass body
Equipped with dry sump
lubrication , custom radiator
and multi element front wing

2014

SUPRA SAE INDIA KALKITECH UNLEASHED 2.0

Honda CBR 600 @ 8000
RPM
Torsen T-1 Limited Slip
Differential
AISI 4130 Chromoly chassis
Polypropylene body
Double wishbone suspension
Equipped with dry sump
lubrication and custom
radiator



2015

FORMULA DESIGN CHALLENGE SUVIRE GROUP UNLEASHED 2.1



Honda CBR 600 @ 8000 RPM
Torsen T-1 Limited Slip
Differential
AISI 4130 chromoly chassis
Fiberglass body and custom
made seat
Double wishbone suspension

2017

FORMULA BHARAT TEQIP, GASOTECH UNLEASHED 3.0

KTM Duke 390RC (373.2 cc),
42.90HP@ 9000 RPM,
Torsen T-1 Limited Slip
Differential
AISI 4130 chromoly chassis
Fiberglass body
Double wishbone, rear rocker
arm suspension
3D Printed air intake unit and
remapped ECU



SPONSOR US

JOIN US ON OUR JOURNEY AHEAD,
LET'S GROW TOGETHER



In this season, we are all set to board the train to SUPRA SAE 2020, organised by SAE NDIA at Buddh International Circuit. It is an ambitious project that requires a lot of material, financial and human investments. Being a part of this competition offers several benefits in all stages of the event.

BENEFITS

PRE COMPETITION

Brand visibility on website, media, auto shows and students

Media Coverage : Several print media such as The Hindu, Times of India has featured articles on Team Unwired besides activities and events related to NIT Calicut.

Automotive magazines, National news and infotainment channels have special coverage in SAE INDIA

ONSET

Endorsement through vehicle : The sponsor's logo will prominently feature on the logo space on the car. The car will feature in national publications and events

Industry Decision Making: These competitions serve as a gateway for decision making and innovation into the industry, during the competition all the innovation and design advancements will be associated with the sponsor Endorsement through apparel: The company logo of the sponsor will be displayed on the drivers and team apparel

POST COMPETITION

Permanent brand visibility on Team Unwired's website and social media pages. Promotion and brand visibility in the team unwired stall and exhibitions during technical fest (tathva) and cultural fest (ragam) of the college. These events span over 3 days with footfall of over ten thousand annually.

Promotion of industry and interaction with NIT Calicut which gives access to potential future minds

NITC ranked
28th nationally

DC CORRESPONDENT
KOLKATA

Student Formula tests tomorrow's race engineers



CAMPUS TALK

THEY BUILD AND RACE THEIR OWN CARS



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OCTOBER 21, 2019 02:41 PM IST





ABOUT US

Team Unwired is a student club at the National Institute of Technology Calicut, which undertakes student engineering projects and competitions.

We have been the pioneers of technical projects with an aim of providing students hands on learning which supplements classroom learning, strengthens fundamentals and cultivate further future endeavors.

TEAM

Comprises mostly of students from Mechanical, Electrical & Electronics departments of NIT Calicut.

Divided into four technical sub-teams:

1. Chassis
2. Suspension
3. Engine & Transmission
4. Brakes & Safety

Unlike other Formula student teams, Team Unwired is entirely organised and run by the student team members with the guidance from academic and technical staff

SUPPORT

Recognized and supported by the University providing work-space and access to many types of specialist equipment.
Sponsoring

GOAL

From the knowledge we gained from our previous SUPRA model, with a new vigour and enthusiasm we are planning to build a car of much improved version powered by brand new engine, with reduced weight, more advanced and intricately designed suspension and chassis.



ABOUT THE COMPETITION

SUPRA is being organised annually by SAEINDIA at **BUDDH INTERNATIONAL CIRCUIT**. SAE INDIA is a strategic alliance partner of SAE International registered in India as an Indian non-profit engineering and scientific society. **90,000** engineers, business executives, educators, and students from more than **97** countries form our network. The event provides a platform for students to apply their engineering skills to design and construct a Formula category vehicle as per defined performance and safety specifications. Beyond the scope of automotive sector, they give students the opportunity to work on a very ambitious project. The growing popularity of the competition is proven by the rapidly rising number of participants and the establishment of new events.

SUPRA SAEINDIA comprises of a series of Static and Dynamic events spread over five days, concluding with a final Endurance run. The events include:

STATIC EVENTS

- ENGINEERING DESIGN
- COST ANALYSIS
- BUSINESS PRESENTATION

DYNAMIC EVENTS

- ACCELERATION
- AUTOCROSS
- SKIDPAD
- ENDURANCE/EFFICIENCY

2019 RESULT

COST	9 th
DESIGN	7 th
ACCELERATION	10 th (5.86 SEC)
BRAKETEST	1 ST ATTEMPT
ENDURANCE	AMONG 30/118 TEAMS
OVERALL	AIR24



COST BREAKDOWN



BUDGET



- BODY ERGONOMICS
- POWER TRAIN
- ELECTRONICS
- SUSPENSION AND STEERING
- BRAKES AND WHEELS
- LOGISTICS

MANUFACTURING

PART/PROCESS	AMOUNT
AISI 7076 Aluminium block (4 Kg)	₹ 50,000.00
Composite plastic	₹ 25,000.00
Slick Tyres (4 WET)	₹ 2,40,000.00
Rims (4)	₹ 80,000.00
Batteries	₹ 2,000.00
Engine Control Unit	₹ 50,000.00
Drive shaft	₹ 4,000.00
Air Intake	₹ 20,000.00
Brake Assembly	₹ 30,000.00
Fasteners	₹ 10,000.00
Shifters	₹ 45,000.00
Steering Assembly	₹ 32,000.00
Suspension Upright	₹ 40,000.00
Suspension Hub	₹ 70,000.00
chassis	₹ 35,000.00
	₹ 7,33,000.00

Operational

Marketing and Public Relations	₹ 4,000.00
Trailer Maintenance	₹ 5,000.00
Vehicle Transport	₹ 50,000.00
competition Fee	₹ 64,900.00
	₹ 1,23,900.00

THE BUDGET OF THE PROJECT FOR 2020 SUPRA SAE SEASON IS SHOWN HERE. MAJOR COSTS ARE INCURRED BY THE PURCHASE OF CAR PARTS FOR MANUFACTURING.



LETS KEEP IN TOUCH

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6000+
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