



RENNEN 2K17

A NATIONAL LEVEL MINIBIKE DESIGN, FABRICATION, RACING CONTEST

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

SAEINDIA

Dindigul - 624002 , Email : ssmiedgl@gmail.com Website: ssmiet.ac.in

SSMIET COLLEGIATE CLUB

Department of Automobile Engineering



NATIONAL LEVEL

MINI BIKE DESIGN, FABRICATION & RACING CONTEST



RENNEN 2k17

on 4th - 5th Oct 2k17

Cash Prize Worth above One Lakh



CATEGORIES

- 60 CC ■ 80 CC
- e-bike/Solarbike
- RC car

Auto Expo

- Motor Cycle Riding Gears
- Motor Cycle Safe Riding
- Motor Cycle Touring
- Stunt Show by Professionals

For Rulebook & Enquiries

Website : www.ssmietrennen.in

- ✉ : Rennen2k17@gmail.com
- f : [@rennen2k17](https://www.facebook.com/@rennen2k17)
- t : [@rennen2k17](https://www.twitter.com/@rennen2k17)
- i : [@rennen2k17](https://www.instagram.com/@rennen2k17)

Registration Rs.2500 Per Team
(Max 6 Members)

Last Date for Regn : 30 Sep 2k17

Special Awards

- Best Innovation
- Best Design
- Best Rider
- Best Solar Performer
- Best B-Plan

Faculty Co-ordinators

Mr. Nandagopal.K - 9003814312
Mr. Nagendran.M - 9952423743

Student Co-ordinators

Prashanna.B - 9944085013
Guruprasad.R - 9994229069
Naveen Kumar.S - 7502661952
Siva Priyan.K - 9578445935





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul-02

DEPARTMENT OF AUTOMOBILE ENGINEERING

Vision

- To realize the dream of providing world class technical education to the highly potential students with a rustic background and to achieve economic enhancement of villages.
- To persuade students to emerge as employers than employees by promoting entrepreneurship.
- To accomplish the dream of India becoming a superpower by providing the much needed technical manpower and highly talented entrepreneurs.

Mission

- To facilitate the process of acquiring quality higher education in the field of engineering.
- To accomplish excellent academic achievements and thereby helping the students become industry ready.
- To provide quality education in the field of engineering by providing UG & PG Courses in latest disciplines by increasing the facilities, adding faculty and by expanding Research and Development programmes.
- To help the students evolve into multi-faceted personalities by developing their personality, motivation, desire, character, etc achieved by encouraging them to participate in various co-curricular and extracurricular and service activities.



About the Department:

Automobile Engineering or Automotive Engineering is the branch of engineering which deals with the study as how to design, manufacture and operate automobiles like buses, trucks, cars etc. and also their respective engineering subsystems. This can also be grouped under vehicle engineering. Automobile engineer's main duty is to design, test and develop vehicles and / or components from concept stage through to production stage. The vehicle after being launched in the market also needs improvement. Then it comes to the duty of the automobile engineer to improve the vehicle in response to customer's feedback.

Automobile engineers further can specialize in the areas such as aerodynamics, alternative fuels, chassis, electronics, emissions, ergonomics, manufacturing, materials, motorsport, power train, rapid prototyping, vehicle and pedestrian safety or supply chain management. The responsibility of automobile engineer is always in maintaining the high standard of vehicle by the use of traditional methods and state-of-the-art technology.

The Department of Automobile Engineering was established in the academic year 2011 with a sanctioned intake of 60. The department follows the syllabus as prescribed by the affiliating Anna University. At present, the department has well qualified faculty members and to supplement the syllabus, guest lectures and industrial visits are organized by the department. It has well equipped class rooms and laboratories that cater to the needs of the students.



Mission

To develop the Department as a center of excellence imparting quality education and generating highly competent technical manpower to accept the technological challenges with high degree of credibility and integrity.

Vision

We envision making the students not only qualified but learned engineers and to be an effective competitor in order to achieve exemplary professional Automobile Engineers of high ethics.

Program Educational Objectives:

The department aims at providing the students of Automobile Engineering with learning facilities comparable to the best standards to impart knowledge in the field of Automobile Engineering to design, manufacture and maintain the vehicles with lesser pollution, also using alternative sources of energy and to provide knowledge to build hybrid vehicles.

Aim

- Obtain 100% placement.
- Achieve 100% result in University exams.
- Present papers in seminars and conferences by all students of Automobile Engineering.
- Conduct technical workshops and seminars during every semester.
- Enroll all the automobile engineering students for the SAE and ISHRAE membership.

RENNEN 2K17

RENNEN 2K17 is a National level Mini bike Design, Fabrication and Racing contest conducted SSM Institute of Engineering and Technology, Dindigul. RENNEN 2K17 is the first event in Dindigul to be conducted exclusively for mini bikes.

By the RENNEN 2K17 we intend to bring out the scintillating skills of the budding engineers in terms of motor spirit. A Motorcycle is an Independent thing where everyone is passionate, when passion becomes need it brings out perfection. And we need the passion of young India to be brought out. Who knows probably the work of designing by the competitors could bring out a new model; satisfying Make in India.

Every great dream begins with a dreamer. Always remember, you have within you the strength, the patience, and the passion to reach for the stars to change the world.





LIST OF HONORABLE SPONSORS

Sponsors are an important part of any event or function, putting in mind that they play a crucial role in provision of financial or logistical support in return for their names to receive highlights in the event. Here the following list of valuable sponsors who have took part with us and our RENNEN 2K17 event and have become one of the rising hand for the success of RENNEN 2K17.

RADIO PARTNERS: PASUMAI FM 90.4

SL.NO	ORGANIZATION/ COMPANIES NAME	AMOUNT IN RS.	MODE OF TRANSFER	CHEQUE NUMBER
1	JK TYRES	5000.00	Online	IRE5174524
2	VASAVI JEWELLERY	5000.00	Cheque	190214
3	ABC COMPUTER	5000.00	Cheque	050081
4	RASI FURNITURE’S	3000.00	Cash	-
5	THE CHENNAI FURNITURE’S	5000.00	Cheque	000859
6	BAKERY BAR	10000.00	Cash	-
7	VENUS MOTOR	5000.00	Cheque	28416
8	SORNAM MOTORS	10000.00	Cheque	276414
Total:		48,000.00		
Rupees in words: Forty Eight Thousand Only				



AGENDA OF RENNEN 2K17

DAY: 1

- Inaugural ceremony
- Bike Event
- Auto Expo (our college students & participants)
- Technical Inspections (Skid pad test , Acceleration test)
- Endurance Test
- Valediction

DAY: 2

- Auto Expo(open for public)
- Safety gears
- RC car Event
- Automobile Innovation and Invention Presentation
- Stunt Show
- Valediction

LIST OF COMMITTEE ASSIGNED

S.NO.	COMMITTEE	FACULTY INCHARGE
1	Registration	Dr. N.Sampath Kumar
2	Skippad, Endurance & Acceleration Test	Mr.M.Nagendran, R.Rajavel
3	Food	Mr.G.Sahayaraj
4	Hospitality	Mr.D.Mummoorthi
5	Pit,Sound,Deceration	Mr.K.Kalidass
6	Commentary & Discipline	Mr.D.Mummoorthi
7	Auto Expo.	Mr.M. AnandaMurugan
8	Technical Inspection	R.Rajavel,S.Mohanasundaram,P.Rajesh

REGISTRATION

The following list of teams have been registered to take participate in RENNEN 2K17 under 60 CC and 80 CC.

S.No.	Team Name	College Name	Student Name	Category
1	Nemesis	SNS College of Engineering	S.Someswaran (Captain)	80 cc
			B.Jayaharish (Vice Captain)	80 cc
2	Asthraa	Karpagam University	A.V.Arun (Captain)	80 cc
			Naveen Prabhu (Vice Captain)	80 cc
3	Cubic Force	Dr.NGP Institute of Technology	S.Hariharan (Captain)	80 cc
			M.Anandhakumar (Vice Captain)	80 cc
4	CATALYTIC 2	MIET College of Engineering	S. Mohammed Riaz(Captain)	80 cc
			B.A. VaasimAhamed	80 cc

5	HAWK	AVS Engineering College	R. Naveen Kumar (Captain)	80 cc
			V. Naveen (Vice Captain)	80 cc
6	RENEGADES	Sri Ramakrishna Institute of Technology	S. Yogesh Ram (Captain)	80 cc
			J. Sinthayalan (Vice Captain)	80 cc
7	Beat the Heat	Kathir College of Engineering	V.Rajesh Kumar (Captain)	60 cc
			R.Vignesh (Vice Captain)	60 cc
8	K 1	Gnanamani College of Technology	R.Prakash (Captain)	60 cc
			K.Krishnakumar (Vice Captain)	60 cc
9	CATALYTIC 1	MIET College of Engineering	M.A. Mohammed Sirajudeen (Captain)	60 cc
			M. Manikandan (Vice Captain)	60 cc
10	Piston Pirates	SNS College of Engineering	O.S.Sriram (Captain)	60 cc
			S. Vimal Kumar (Vice Captain)	60 cc

REGISTRATION PIT



Students registering their team in registration pit



Distributing Registration kits to Participants

INAUGURATION OF RENNEN 2K17

Our department's grand event RENNEN 2K17 was inaugurated by our honorable chairman Shri.P. S. Velusamy at 10:30 AM. Before the inauguration of the event, our honorable secretary Shri. C. Kandasamy along with our principal Dr. M. Saravanan, Campus Director Dr. R. Chandran visited the event track and appreciated the work of our students' effort. Our faculties and students explained about the track design and the obstacles in the track to them and clarified about their doubts.



Our dignified chairman and managing trustee Shri. P. S. VELUSAMY inaugurated the event by cutting ribbon



*Our venerable Secretary Shri. **C. KANDASAMY** along with our Campus Director Dr. **R. Chandran**, Principal Dr. **M. Saravanan**, Visited the track and faculties explaining about track.*

After the inaugural ceremony our respected chairman initiated launched the event and our Automobile department students drove their own fabricated mini bikes and made a rally in our track. They drove over the bumps, solid obstacles, curvy pathways, mud etc. Our students showed their excellence in fabrication of minibikes and driving it in track. Participants also appreciated our students driving and shared their views about the track with faculties and students.



Our chairman launching the event



Our student riding their own fabricated minibike



Riders climbing the slopy obstacle with full enthusiasm and energy

PASUMAI FM-90.4/ SUPER TV RELAY ABOUT THE EVENT



*Our esteemed Secretary Shri. **C. KANDASAMY** along with our Campus Director **Dr. R. Chandran**, Principal **Dr. M. Saravanan**, giving commentary in Pasumai FM 90.4 live relay*



*Our respected Principal **Dr. M. Saravanan** and HoD of Automobile Department **Dr. M. Santhosh** giving commentary in Super TV and Pasumai FM 90.4.*

JUDGEMENT CRITERIA

Static Round

During the static round soft copies as well as hard copy of all particulars given below are required. The objective of Static round is to determine the ability of the bike to meet the requirements and restrictions of RENNEN 2K17.

S.NO.	Category	Points
1	Cost report	10
2	Design evaluation	50
3	Innovation	20
4	Presentation	20
Total		100

1. Brake Test:

All the bikes have to pass the brake test to participate in any of the Dynamic Events. The bike must stop in a straight line after the brake is applied. Each bike will be given 3 attempts to pass the brake test. And in case if the bike passes the test in the first attempt it will not be given further trials.

Acceleration Test: The acceleration event evaluates the Bike's acceleration in a straight line on flat pavement.

Procedure: The bike will accelerate from a standing start over a distance of 100 m on a flat surface. The foremost part of the bike will be staged at exactly behind the starting line. The time taken to accelerate would be measured.



Penalty: Each bike will be given 1 attempt to pass this test. An additional attempt will be given on penalty of 3 seconds.

2. Skid Pad Test:

The objective of the skid-pad event is to measure the Bike's cornering ability on a flat surface while making a constant- radius turn.

Skid Pad Layout:

There will be two (2) pairs of concentric circles in a figure of eight pattern. The centers of these circles will be 2m apart. The inner circles will be 2.5m in diameter, and the outer circles will be 4.5m in diameter. The driving path will be the 2m path between the inner and outer circles. The bikes will enter and exit through gates on a 2m wide path that is tangential to the circles where they meet. The line between the centers of the circles defines the start/stop line. A lap is defined as traveling around one of the circles from the start/stop line and returning to the start/stop line. Hurdles will be present in skid pad test

Procedure:

The track is laid on as shown and the bike will enter the track perpendicular to the figure eight. They must take one full lap on the right circle to establish the turn and the bike must move on to the left circle to complete the lap. This completes one lap and will be timed. Immediately upon finishing the circle the lap will be completed, and the bike will exit the track. The bike will exit at the intersection moving in the same direction as entered .A driver has the option to take a second run immediately after the first.



Penalties:

Cones Down or Out: A penalty of 1 second will be added to the time for every cone that is knocked down or out (including the gate cones).

Unfinished: Bike's that have gone out of the track will continue as long as they have not gone off course will be classified as Unfinished. Bike's that do not follow procedure, i.e. run an incorrect number of laps or run the Laps in the wrong sequence will also be classified as unfinished.

Legs touching the ground: A penalty of 2 seconds will be added to the time for every time the rider touches the ground with any/both of his feet.

3. Endurance test:

The endurance event is designed to evaluate the bike's overall performance, reliability and efficiency.

Procedure:

The track consists of various obstacles at different places like standing water, muddy sand, converging bridge, gravels, etc. In general, the teams completing the laps in the shortest time will earn the maximum points available for this event. The endurance track will consist of hurdles of many types

Penalties:

Legs touching the ground: A penalty of 2 seconds will be added to the time for every time the rider touches the ground with any/both of his feet.



Cone down or out: 2 seconds per cone. This includes cones before and after start/finish line.

Off Course (OC): For an off Course, the driver must re-enter the track at or prior to the missed gate or a twenty (20) seconds penalty will be assessed.



AUTOEXPO

During the two days event, there was as another useful event which was held simultaneously to the RENNEN is AUTOEXPO. Several Automobile showrooms and companies exhibited their recently launched vehicles and they have given permission for students and faculties to have the test drive. Many faculties who have no time to go to showrooms and have test drive of their favorite vehicles have made use of this opportunity to have test drive and also they have satisfied themselves. Some students and faculties have given their interest on buying the vehicles from respective companies and this made profitable to those showrooms too and also students got benefited on getting knowing the recent trends in Automobile lively.

The following showrooms who exhibited their vehicles are,

S. No.	SHOWROOMS NAME	BRANDS EXHIBITED
1	Rajendra Automobiles	Royal Enfield <ul style="list-style-type: none"> ➤ Classic 350 ➤ Classic 500 ➤ Thunderbird 350 ➤ Continental GT
2	Yaazhiniy Motors	KTM <ul style="list-style-type: none"> ➤ 250 Duke ➤ 390 duke
3	Sornam Honda	HONDA <ul style="list-style-type: none"> ➤ CB Hornet 160R ➤ CB Shine SP
4	Dindigul Suzuki	Suzuki <ul style="list-style-type: none"> ➤ Gixxer ➤ Gixxer SF
5	Palaniappa Motors	Hero Motocorp <ul style="list-style-type: none"> ➤ Pleasure ➤ Duet
6	Venus Cars	Tata <ul style="list-style-type: none"> ➤ Bolt
7	GT Hyundai	Hyundai <ul style="list-style-type: none"> ➤ Grand i10 ➤ Eon

RENNEN 2K17 VALEDICTION

Our dignified campus director Dr. R. Chandran, honorable HoD Dr. M. Santhosh, and faculty members of Automobile department and faculties of other department who supported us for the event attended the valediction event held at evening 5:30 PM. Our campus director gave the motivational speech and distributed the prize for the winners. Event ended with National anthem.

The following are the list of winners,

S.No.	Team Name	College Name	Student Name	Category	Prize Amount	Total Amount
1	Nemesis	SNS College of Engineering (1st Prize)	S.Someswaran (Captain)	80 cc	6000	12000
			B.Jayaharish (Vice Captain)	80 cc	6000	
2	Asthraa	Karpagam University (2nd Prize)	A.V.Arun (Captain)	80 cc	5000	10000
			Naveen Prabhu (Vice Captain)	80 cc	5000	
3	Cubic Force	Dr.NGP Institute of Technology (3rd Prize)	S.Hariharan (Captain)	80 cc	4000	8000
			M.Anandhakumar (Vice Captain)	80 cc	4000	

4	Beat the Heat	Kathir College of Engineering (1st Prize)	V.Rajesh Kumar (Captain)	60 cc	6000	12000
			R.Vignesh (Vice Captain)	60 cc	6000	
5	K 1	Gnanamani College of Technology (2nd Prize)	R.Prakash (Captain)	60 cc	5000	10000
			K.Krishnakumar (Vice Captain)	60 cc	5000	
6	Beat the Heat	Kathir College of Engineering	R.Vignesh	Best Rider	2000	2000
7	Renegades	Sri Ramakrishna Institute of Technology	S.Yogeshram (Captain)	Best Business Plan	3000	3000
8	Piston Pirates	SNS College of Engineering	O.S.Sriram (Captain)	Best Innovation	3000	3000
				Total Amount		60,000



Valediction ceremony gathered with participants, students and faculties

DAY 2: RC IC CAR EVENT

On October 5, 2017, there was one more event called RC IC CAR RACE EVENT. Totally 5 teams registered for the event from various engineering colleges and took part in the event. Our honorable chairman inaugurated the event and the event was finished in grand manner. Simultaneously AUTOEXPO was also carried out on this day.



Our dignified chairman and managing trustee Shri. P. S. VELUSAMY inaugurated the RC IC CAR event by cutting the ribbon.



A Glorious Moment of RC IC Car event

STUNT SHOW

At the end of the day, our department has organized a bike stunt show which was performed by bike stunt professional's *EAGLE 360°*. This stunt show gathered not only Automobile department students, it has also made to gather students of other departments, students of SSM School, faculties, non teaching staffs and other visitors. Many of the people gave the comment that they have seen the bike stunts for first time in real. Everyone enjoyed the show with astonishing mindset. This event showed that AUTOMOBILIANS ARE THE REAL SHOWPEOPLE.



EAGLE 360° headed by Mr. Kannan performed bike stunts like wheelie, drifting, burnout etc. and attracted whole crowd

DAY 2- VALEDICTION

“What we call the beginning is often the end. And to make an end is to make a beginning. The end is where we start from”. After the end of the stunt show, valediction for RC IC Car event was held. Our campus director and our HoD distributed the prize for the winners of the event.

S. No.	WINNERS	PRIZE
1	Ramco Institute of Technology	First
2	Erode Builders Educational Trust	Second

NEWSPAPER APPRECIATION



தினமலர் - 4.10.17

திண்டுக்கல்

4-10-17

இன்றைய நிகழ்ச்சி

இப்பகுதியில் சங்க அமைப்பு, கோயில், பள்ளி, கல்லூரி, பொது, ஆன்மிக, வர்த்தக நிகழ்ச்சிகளை இலவசமாக வெளியிடுகிறோம். இன்றைய நிகழ்ச்சி, தினமலர், திண்டுக்கல் - 624 005.

ஆன்மிகம்

- கோட்டைமாரியம்மன் கோயில், திண்டுக்கல், காலை 7:00 மணி.
- அபிராமியம்மன் கோயில், திண்டுக்கல், காலை 7:00 மணி.
- சவுந்தரராஜ பெருமாள் கோயில், தாடிக்கொம்பு, காலை 7:00 மணி
- கீதை சொற்பொழிவு: ஆஞ்சநேயர் கோயில், கோபாலசமுத்திர கரை, திண்டுக்கல், பேசுபவர்: சுவாமி சமாநந்தர், மாலை 6:30 மணி, ஏற்பாடு: வேதாந்தா பவண்டேஷன்.
- தங்கரதப்புறப்பாடு: மலைக்கோயில் பழநி, காலை 8:00மணி, வேடர் அலங்காரம், மாலை 5:30மணி, ராஜ அலங்காரம், இரவு 7:00 மணி, சின்னக்குமாரசுவாமி தங்கத்தேரில் உலா.
- சிறப்புபூஜை: திருஆவினன்குடி கோயில் பழநி, காலை 9:00 மணி குழந்தை வேலாயுதசுவாமி, சிறப்பு அர்ச்சனை, தீபாராதனை.
- பெருமாள் வழிபாடு: லட்சுமிநாராயணப்பெருமாள் கோயில் மேற்குரத வீதி பழநி, காலை 6:00 மணி சிறப்பு அலங்காரம், துளசி அர்ச்சனை
- சிறப்பு வழிபாடு: அகோலபில வரதராஜப்பெருமாள் கோயில், பாலசமுத்திரம் பழநி, காலை 6:00 மணி சிறப்பு அலங்காரம், துளசி அர்ச்சனை, தீபாராதனை.
- சிறப்பு பூஜை: ராஜகாளியம்மன் கோயில், தெத்துப்பட்டி, பகல் 11:45 மணி, சிறப்பு பூஜை.
- சிறப்பு பூஜை: சோமலிங்கசுவாமி கோயில், கன்னிவாடி, பகல் 11:30 மணி, திரவிய அபிஷேகம், சிறப்பு பூஜை.
- சிறப்பு பூஜை: மவுனகுரு சுவாமி கோயில், கசவனம்பட்டி, பகல் 11:30 மணி, சிறப்பு பூஜை, அன்னதானம்.

பொது

- திறன் வளர்ப்பு பயிற்சி முகாம்: அண்ணா பொறியியல் கல்லூரி, திண்டுக்கல், காலை 10:00 மணி. தலைமை: முதல்வர் (பொறுப்பு) சித்ரா செல்வி. ஏற்பாடு: தமிழ்நாடு அறிவியல் மற்றும் தொழில் நுட்ப மாநில மன்றம். சென்னை.
- கைத்தறி எக்ஸ்போ: கோட்டை மாரியம்மன் கோயில் வளாகம், திண்டுக்கல், காலை 10:00 முதல் இரவு 9:00 மணி வரை. ஏற்பாடு: கைத்தறி மற்றும் துணிநூல் துறை, திண்டுக்கல்.
- ரென்னன்-2017 நிகழ்ச்சி: எஸ்.எஸ்.எம்.. பொறியியல் கல்லூரி, பழநி ரோடு, திண்டுக்கல், ஏற்பாடு: ஆட்டோமொபைல் இன்ஜினியரிங் துறை.