

MECHPULSE

2017

RULE BOOK

- (ME1) **Model Making**
- (ME2) **Paper Presentation**
- (ME3) **Robo Race**
- (ME4) **Technical Quiz**
- (ME5) **Cad war**
- (ME6) **Rocket Launcher**
- (ME7) **Shutterbug Treasure Hunt**

ME 1. MODEL MAKING

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO:)

Team Entry Fee: RS 200

Maximum Participants per Team: 2

Date of Event: 13TH SEPT. 2017

❖ Prizes:

Winner: Rs. 8,000

Runner up: Rs. 5,000

RULES:

- Problem statement will be given on the spot of the event.
- Raw material for model will be provided (e.g. Thermocol, Card board Sheet, glue). Extra material will not be provided to any team.
- Participants must bring cutting, measuring and drawing instruments.
- Use of Mobile is strictly prohibited and will result in disqualification.
- Decision of judges will be final and binding to all participants.

GENERAL RULES:

- You should maintain the college decorum.
- Any participant disobeying the instructions will be charged with time penalty or may be disqualified.
- Final decision will be taken by the event co-coordinator and General Secretary.
- Any mess with volunteer/event co-coordinator will be resulted in disqualification.
- Prize money subjected to change.
- If there is any change in above rules, then that will be told to you before the start of the event.

Name of the Event Coordinators

1. Umesh Suryawanshi - 9403706517
2. Shirish Gajbhiye - 7219141906
3. Shubham Mohite - 7387574773

ME2. PAPER PRESENTATION

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO:)

Team Entry Fee: RS 100

Maximum Participants per Team: 2

Date of Event: 13TH & 14TH SEPT. 2017

❖ Prizes:

Winner: Rs. 6,000

Runner up: Rs. 3,000

TOPIC:

- Any topic related to Mechanical Engineering.

RULES:

- The participant must be studying any undergraduate course from any recognized University.
- Maximum no. of participant 2.
- The paper must in IEEE format. It should not exceed 10 pages.
- The participant will have to send abstract on or before 10th September 2016 on the e-mail ID **paperpresentation2017@gmail.com**
- The abstract should contain about 200-300 words.
- The mail with submissions (along with abstract) should contain:
 1. Title- theme of the paper.
 2. Name of both the Participants.
 3. Phone no of both the Participants.
 4. Receipt Number
 5. E-mail ID of both of the Participants.
- 1st selection will be based on the abstract. If you are selected on the basis of the abstract, you will get a call from us for the final presentation.
- Participants will have to bring their college I cards and receipt on the event day.
- Students from different institution can be a part of one team.
- The date and time of event will be notified to you.

PRESENTATION RULES: -

- The presentation must be in a Microsoft PowerPoint.
- The participants will be given 10min to present their paper followed by a 2 min question answer session.
- Presentation will be evaluated on the basis of its reliability, practical application and innovative ideas used.
- Judges decision will be final and it will not be changed under any circumstances.

General Rules:

- You should maintain the college decorum.
- Any participant disobeying the instructions will be charged with time penalty or may be disqualified.
- Final decision will be taken by the event co-coordinator and General Secretary.
- Any mess with volunteer/event co-coordinator will be resulted in disqualification.
- Prize money subjected to change.
- If there is any change in above rules, then that will be told to you before the start of the event.

Name of the Event Coordinators

- 1. Dhananjay Kharat - 9421300899**
- 2. Ritesh Nipanikar – 8390037362**
- 3. Shubham Rajole – 7719098541**

ME3. ROBO-RACE

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO:)

Team Entry Fee: RS 200

Maximum Participants per Team: 4

Date of Event: 13TH & 14TH SEPT. 2017

❖ **Prizes:**

Winner: Rs. 8,000

Runner up: Rs. 5,000

ROBO SPECIFICATIONS: -

- Robot will be provided for the event if needed or else you can bring your own robot which should satisfy below mention rules.
- The ROBO should fit in the dimensions 30cm x 30cm.
- The ROBO should be controlled by wireless or wired mechanism throughout the race.
- The ROBO must not be made of READY-MADE materials, if it is so ROBO will be disqualified.
- The weight of ROBO should not exceed then 3kg.
- Length of the wires must be sufficient long to cover the arena.

BATTERIES AND POWER: -

- The ROBO must be powered electrically only, use of IC engine is not allowed.
- Battery voltage: Maximum allowed is 24V & 2A.
- Participants cannot bring their own power supply units.

ARENA SPECIFICATIONS: -

- The team with minimum time will reaches to the next round.
- The next round would include a selected number of team on the basis of their ranking decided in the previous round.
- In case of TIE, a common task would be given on the spot to both the teams & the winner would be decided on the basis of best timing in the that task.

GAME RULES: -

- The competition is best on time trial systems.
- The top teams from the qualifying rounds make it to the final round on the basis of trials.
- Team will be provided with 10 hand touches & after 10 hand touches team will be disqualified.
- Hand touches will be allowed with a penalty of 10 seconds each.
- Team will be provided with 2 skips and after 2 skips team will be disqualified.
- Skip will be allowed with a penalty of 30 seconds each.
- Teams with top timings will be selected for the final round.
- The ROBO are not allowed to leave any loose parts on any part of arena. Any ROBO disintegrating during the RACE will be disqualified.
- If there is need of reparation of the ROBO due to certain reasons, then 20mins will be provided after that time span team will be disqualified.
- Judges decision shall be treated as final.

GENERAL RULES: -

- Any team that is not ready at the specified time it will be eliminated from the competition automatically.
- The teams must be adhered to the spirit of healthy competition. Judges reserve the right to disqualify any team indulging in any misbehavior.
- Judges decision will be final & binding on all.
- All the teams should report before 10.30am.
- On the spot entries can be allowed depending on the situation.
- Re-entry is allowed.
- Pass-out and Postgraduate students are not allowed.

TEAM SPECIFICATIONS: -

- A team may consist of 4 members max.
- Students from different educational institutes can form team.

ELIGIBILITY: -

- All students with valid identity card of their respective educational institute are eligible to participate in the event.
- Student should carry their identity card at the time of reporting.

CERTIFICATE POLICY: -

- CERIFICATE OF Excellence will be awarded to all winners.
- CERIFICATES of participation will be given to all the teams that will participate in the event, but not to them who get disqualified due to any Competition rules.

Name of the Event Coordinators

- 1. Aniruddha Vyavahare:- 7387353400**
- 2. Ajinkya Patil:- 8888713666**
- 3. Shubham Wadge:- 7350020735**

ME4. TECHNICAL QUIZ

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO.)

Team Entry Fee: RS 100

Maximum Participants per Team: 2

Date of Event: 13TH SEPT. 2017

❖ **Prizes:**

Winner: Rs. 6,000

Runner up: Rs. 3,000

GENERAL RULES: -

- Only team entries are eligible.
- A team shall consist of max two persons.
- The decision of the quiz-master will be final and will not be subjected to any change.
- The participants shall not be allowed to use mobile or other electronic instruments.
- The questions shall be in the form of multiple choice, True / False statement, Specific-answer question etc.
- Audience shall not give any hints or clues to the competitors.
- Cancellation of any participant of a team is not allowed after registration.
- Spot entries are allowed.

Round 1: ELIMINATION ROUND –

Each team would be given a set of question paper containing 30 multiple choice objective type questions. (**Consist of Technical+ General+ Aptitudes**)

- Time limit - 30 minutes.
- No Negative marking.
- In case of tie between 2 or more teams. Team scoring maximum in aptitude and technical will be selected for next round.

Round 2: Visual Round

Teams will be shown image/clips and will have to answer based on Technical and General.

- Each Team would be asked 3 visual questions. (1 slide in each round)
- 10 marks for correct answer NO negative marks for wrong answer.
- If a team cannot answer the question, they can pass the question & then the question would be forwarded to the next team. If the passing team answers correctly, they will get 5 points. Passing is limited to next team only.
- Answering time is only 30 seconds.'

Round 3: Final Round:

This round consists of 3 sub-round

Sub-round 1: Bet it on (negative points, if incorrect answer):

Each team will be given a chance to choose the marks they want to play for like 10 marks, 30 marks or 50 marks question: 2 questions per team.

- Questions difficulty level will increase as per marks assignments. Means 30 mark questions will be difficult that of 10 mark questions and 50 marks will be tougher than that of 30 marks.
- Team can choose which category question they want, once they choose the category and if they give the right answer for the question, they get full marks of the question. For wrong there would be **50% negative marks**, if team gives wrong answer.
- Answering time is only 30 seconds
- If a team cannot answer the question, the question will **not** be forwarded to the next team.

Sub-round 2: Rapid fire

In this round, each team will have 60 seconds to answer as many questions as possible.

- 10 marks for each correct answer.
- No negative marking.

Note: - Round can be changed according to the conditions.

Sub-round3: Buzzer Round

A question will be fired & the team who presses the buzzer first get to answer first.

- 10 marks for the correct answer and negative 5 marks for the wrong or if team doesn't after they press Buzzers. – No forwarding (10 questions).
- Answering time is only 30 seconds
- If participant presses BUZZER before completion of question, then further question will not be completed.

Name of the Event Coordinators

Omkar Bhosale :- 8308965121

Madhav Sirsat :- 9850517299

Santosh Mishra :- 9405146147

ME5. CAD WAR

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO: __)

Team Entry Fee: RS 100

Maximum Participants per Team: 2

Date of Event: 13TH & 14TH SEPT. 2017

❖ **Prizes:**

Winner: Rs. 6,000

Runner up: Rs. 3,000

Event Structure:

Round 1: 3D Modeling using ProE Wildfire 5.0 (Part Modeling)

Round 2: 3D Modeling & Assembly Using ProE Wildfire 5.0

Marks of first round will be considered as criteria for selection to Round 2

EVENT RULES:

- Judges decision will be final.
- Only UG students will be allowed to participate.
- Participants should have good knowledge of Pro-Engineer Software (Wildfire 5.0).
- Participants should be present 30 minutes prior to commencement of event.
- Participants should carry their own college ID cards with them.
- Participants should carry the receipt with them on the day of event.
- If participants have any queries, they can contact Event coordinators.

GENERAL RULES:

- You should maintain the college decorum.
- Any participant disobeying the instructions will be charged with time penalty or may be disqualified.

- Any mess with volunteer/event co-coordinator will be resulted in disqualification.
- Prize money subjected to change.
- If there is any change in above rules, then that will be told to you before the start of the event.

Name of the Event Coordinators

- 1. Shantanu Dhakane: 9763143491**
- 2. Vinay Upadhey: 8554043915**

ME6. ROCKET LAUNCHER

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO:)

Team Entry Fee: RS 150

Maximum Participants per Team: 3

Date of Event: 13TH & 14th SEPT. 2017

❖ **Prizes:**

Winner: Rs. 7,000

Runner up: Rs. 4,000

RULES:

- This will be a team event with a maximum of 4 members per team conducted in elimination type tournament. Number of rounds will be decided based on the number of entries.
- The rocket should be strictly made around a PET bottle of up to 2 liters' capacity (For e.g. bottle of any aerated drink. Keep in mind the size of the bottle opening should be around that of a standard 2 lit. Coca Cola bottle). Only the use of water without any contaminants such as soda will be permitted. Don't use Maaza or Bisleri bottles as their tail ends do not have standard size.
- You will have to design and build the rocket at home however you wish. Please note that you will have to bring your own material for repairing your rocket at the event (to the original design)
- The launcher, provided by us, will consist of an air pump with variable angle and direction of launch. The cork will be compatible only to the above mentioned bottle sizes.
- The distance will be measured from the point of launch to the first point of impact.
- Each team will be given 3 successive chances in the first round. Best of the three distances will be considered as the final score for that round. The number of teams advancing to the next round will depend on the number of entries.
- Rules for the successive rounds will be revealed at the day of the event.
- At the time of launch, each competitor may adjust the volume of water, air pressure, launch angle and launch direction. There is no limit on water volume but air pressure must not exceed 80 psi (5.516 bars).
- The competitors are encouraged to be creative in the design of the nose and fins of their water rockets with good aerodynamics and weight balancing.

Name of the Event Coordinators

- 1. Pushkar Bahirat: 8605816953**
- 2. Sagar Garad: 9673352254**
- 3. Hrishikesh Patil: 8390135090**

ME7. SHUTTERBUG TREASURE HUNT

Venue: AISSMS COE CAMPUS (REPORTING ROOM NO:)

Team Entry Fee: RS 200

Maximum Participants per Team: 4

Date of Event: 14TH SEPT. 2017

❖ **Prizes:**

Winner: Rs. 7,000

Runner up: Rs. 4,000

RULES:

- Members of one team can be from different colleges.
- A team should have a good quality camera or mobile camera (minimum 5 megapixels).
- You should maintain the college decorum.
- After finishing the task, you have to report quickly to the desired location.
- In case of any dispute, decision of JUDGES will be considered final.
- Timing will be considered in case of clash.
- Any misbehavior of participant during event/rounds will be charged with time penalty or may be disqualified.

GENERAL RULES:

- You should maintain the college decorum.
- Any mess with volunteer/event co-coordinator will be resulted in disqualification.
- If there is any change in above rules, then that will be told to you before the start of the event.

Name of the Event Coordinators

1. Ritesh Patil : 8983280806

2. Harshal Patil: 7304502176