



# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## Mechfest RULES

### MECHANISM BUILDING COMPETITION INTRA COLLEGE EVENT

**ENTRY FEE: FREE**

**OBJECTIVE:**

DESIGN AND BUILD A UNIQUE MECHANISM WITH A USEFUL PURPOSE THAT PRODUCES AN OUTPUT, SUCH AS THE APPLICATION OF FORCE, LINEAR, OR ROTARY MOTION.

**RULES:**

- TEAMS MUST CONSIST OF 2-4 MEMBERS.
- PARTICIPANTS WILL HAVE TIME TO PRESENT THEIR MECHANISM TO THE JUDGES AND GIVE A SMALL EXPLANATION ABOUT ITS WORKING AND IMPORTANCE.
- PURCHASING THE ENTIRE MECHANISM FROM A SUPPLIER WILL RESULT IN DISQUALIFICATION.
- NO RESTRICTIONS ON MATERIALS USED.
- JUDGES' DECISIONS WILL BE FINAL, NO OBJECTIONS WILL BE ENTERTAINED POST-RESULTS.

**INSTRUCTIONS:**

- ALL PARTICIPANTS MUST JOIN THE MECHANISM BUILDING WHATSAPP GROUP.
- ANY QUERIES REGARDING THE EVENT CAN BE ADDRESSED IN THE WHATSAPP GROUP.





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### SOLIDWORKS DESING COMPETITION INTER COLLEGE EVENT

ENTRY FEE: 150/-

#### OBJECTIVE

PARTICIPANTS HAVE TO BUILD A 3D CAD MODEL IT WILL BE AN ON-SPOT DESIGNING ROUND. PARTICIPANTS WILL BE GIVEN A PROBLEM STATEMENT AT THE TIME OF THE EVENT AND THEY HAVE TO SUBMIT THEIR DESIGN WITHIN THE SPECIFIED TIME LIMIT. EACH SPECIFICATION WILL CARRY SOME POINTS ACCORDING TO THE QUESTION AND ITS LEVEL OF DIFFICULTY. MODELS MUST BE PREPARED IN THE CAD SOFTWARE SOLIDWORKS.

#### RULES

THIS IS AN INDIVIDUAL PERSON EVENT

- THE EVENT WILL BE HELD OFFLINE AT CAD LAB.
- TIME LIMIT FOR THE COMPLETION OF THE SOLID MODEL WILL BE 2 HOURS ONLY
- EACH PARTICIPANT WILL HAVE TO COMPLETE 2 DESIGNS IN THE GIVEN PERIOD UPTO THE SPECIFICATIONS REQUIRED.
- EXCEEDING THE TIME LIMIT WILL RESULT IN REDUCTION OF POINTS. THE SOLID MODEL TO BE DESIGNED WILL BE GIVEN ON THE SPOT.





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### SOLIDWORKS DESING COMPETITION

- THE MODEL WILL BE CHECKED FOR DIMENSIONAL ACCURACY AND FINISHING (CHAMFER, FILLET, ETC.) • IT IS REQUESTED TO REMAIN HONEST AND AVOID TAKING HELP OR CHEATING DURING THE EVENT.
- ANY DOUBTS ABOUT THE RULES CAN BE CLEARED BY CONTACTING THE COORDINATORS IN THE WHATSAPP GROUP THAT HAS BEEN CREATED.
- THE JUDGING CRITERIA AND DECISION SHALL BE FINAL AND NO ARGUMENT WILL BE ENTERTAINED FOR THE SAME.

REGISTER NOW!!!





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### CATAPULT INTER COLLEGE EVENT

**ENTRY FEE: FREE**

#### OBJECTIVE

THE CATAPULT EVENT CHALLENGES PARTICIPANTS TO UNLEASH THEIR CREATIVITY AND ENGINEERING SKILLS IN DESIGNING AND CONSTRUCTING A FUNCTIONAL CATAPULT. TEAMS WILL BE TASKED WITH ASSEMBLING THEIR CATAPULT FROM SCRATCH DURING THE EVENT AND TESTING ITS EFFICIENCY IN LAUNCHING PROJECTILES. THIS IS A HANDS-ON EVENT THAT COMBINES BOTH THEORETICAL KNOWLEDGE AND PRACTICAL SKILLS, PUSHING TEAMS TO INNOVATE WHILE WORKING UNDER PRESSURE. THE EVENT PROMISES A THRILLING EXPERIENCE, WITH PARTICIPANTS COMPETING TO BUILD THE MOST EFFECTIVE CATAPULT WITHIN THE SET CONSTRAINTS.

#### RULES

- EACH TEAM CAN CONSIST OF A MAXIMUM OF 4 MEMBERS.
- PRE-ASSEMBLED OR COMMERCIALLY PURCHASED CATAPULTS ARE STRICTLY PROHIBITED.
- TEAMS MUST ASSEMBLE THEIR CATAPULTS ON-SITE DURING THE EVENT, ENSURING ORIGINALITY AND HANDS-ON INVOLVEMENT
- IN THE EVENT THAT THE CATAPULT BREAKS DURING A SHOT, THAT PARTICULAR SHOT WILL NOT BE COUNTED.
- TEAMS WILL BE GRANTED A 30-MINUTE WINDOW TO REPAIR ANY DAMAGE TO THE CATAPULT.
- THERE ARE NO SIZE RESTRICTIONS ON THE CATAPULT, ALLOWING TEAMS COMPLETE FREEDOM TO DESIGN THEIR MECHANISM.
- THERE ARE NO MATERIAL RESTRICTIONS FOR THE CATAPULT, GIVING PARTICIPANTS THE FLEXIBILITY TO USE ANY MATERIAL THEY DEEM FIT FOR THEIR DESIGN.





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### CATAPULT

- THERE ARE NO MATERIAL RESTRICTIONS FOR THE CATAPULT, GIVING PARTICIPANTS THE FLEXIBILITY TO USE ANY MATERIAL THEY DEEM FIT FOR THEIR DESIGN.
- THE JUDGES' DECISION WILL BE CONSIDERED FINAL AND BINDING IN ALL MATTERS RELATED TO THE EVENT.
- ITEM TO BE THROWN: A TENNIS BALL

#### JUDGING CRITERIA

1. DISTANCE OF THE THROW: THE PRIMARY JUDGING CRITERION WILL BE THE DISTANCE THE CATAPULT CAN LAUNCH THE GIVEN TENNIS BALL. TEAMS WILL BE EVALUATED BASED ON HOW FAR THEIR CATAPULT CAN PROPEL THE BALL IN A SINGLE SHOT. THE CATAPULT WITH THE FARTHEST THROW WILL RECEIVE HIGHER SCORES.

2. ADDITIONAL ROUND (TARGET HIT): IN THE EVENT OF MULTIPLE TEAMS ACHIEVING SIMILAR RESULTS IN THE DISTANCE ROUND, AN ADDITIONAL ROUND WILL BE CONDUCTED. IN THIS ROUND, TEAMS WILL NEED TO ADJUST THEIR CATAPULT TO HIT A SPECIFIC TARGET PLACED AT A SET DISTANCE. ACCURACY IN HITTING THE TARGET WILL DETERMINE THE WINNER IN CASE OF A TIE IN THE DISTANCE ROUND. THE CLOSER THE PROJECTILE LANDS TO THE TARGET, THE HIGHER THE SCORE.





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

BRIDGE BUILDING EVENT  
INTRA COLLEGE EVENT

ENTRY FEE: FREE

### OBJECTIVE

WORKING AS ENGINEERING TEAMS, STUDENTS DESIGN AND CREATE MODEL BEAM BRIDGES USING PLASTIC DRINKING STRAWS AND TAPE AS THEIR CONSTRUCTION MATERIALS. THEIR GOAL IS TO BUILD THE STRONGEST BRIDGE WITH A TRUSS PATTERN OF THEIR OWN DESIGN, WHILE MEETING THE DESIGN CRITERIA AND CONSTRAINTS.

### RULES

1. A TEAM SHOULD CONSIST OF MAXIMUM 5 MEMBERS.
2. TAPE OR STAPLER SHOULD BE USED ONLY ON THE JOINTS AND JUNCTIONS OF THE STRAWS AND NOT ON ITS ENTIRE LENGTH.
3. TAPING THE ENTIRE ROADWAY IS NOT ALLOWED.
4. LOADING CONDITIONS:

THE LOAD WILL BE APPLIED VERTICALLY AT THE CENTER OF THE BRIDGE. THE LOAD WILL BE APPLIED DIRECTLY TO THE ROADWAY.

### 5. SUPPORT:

SUPPORT WILL BE PROVIDED FOR THE BRIDGE TO SIT ON SUPPORTS WILL BE PLACED 30 CM APART.

### 6. WEIGHT:

IF THERE IS A TIE, BRIDGE HAVING MINIMUM WEIGHT WILL BE CONSIDERED AS THE WINNER.





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### BRIDGE BUILDING EVENT

#### MATERIALS:

50 STRAWS OF 25 CM LENGTH.

CELLO TAPE AND GLUE (ONLY FEVICOL TO BE USED) STAPLER IF REQUIRED

#### DIMENSIONS:

WIDTH=8 TO 10 CM

TOTAL LENGTH= 40 CM MAX

TOTAL HEIGHT= 15 CM MAX ABOVE THE SUPPORT.

ROADWAY: 3CM MAX THICKNESS.

#### JUDGING CRITERIA:

##### ROUND 1

- DIMENSION ROUND (QUALIFICATION ROUND)
- BRIDGES WHICH DOES NOT MEET THE GIVEN DIMENSION OR FAILING TO ABIDE BY THE ABOVE RULES WILL BE DISQUALIFIED

##### ROUND 2

- LOAD AND LOOK TEST
- JUDGES WILL GIVE MARKS OUT OF 100 FOR THE OVERALL AESTHETICS OF THE BRIDGE. THESE MARKS WILL BE ADDED TO MAXIMUM LOAD BRIDGE TAKES BEFORE COLLAPSING. THE BRIDGE WITH HIGHER TOTAL POINTS WILL BE DECLARED AS WINNER
- EG - MARKS FOR LOOKS - 70
- TOTAL LOAD TAKEN - 1100GM
- TOTAL POINTS-  $1100+70=1170$





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### REEL MAKING COMPETITION INTER COLLEGE EVENT

ENTRY FEE: 200/-

#### THEME

PROMOTION OF THE BRAND SIMPLE ENERGY, A NEW EV BIKE BRAND.

#### RULES

1. LOCATION:- ALL REELS MUST BE FILMED WITHIN THE COLLEGE CAMPUS.
2. CONTENT GUIDELINES:- ENSURE THAT THE CONTENT IS APPROPRIATE FOR ALL AUDIENCES.  
AVOID USING OFFENSIVE, INAPPROPRIATE, OR HARMFUL LANGUAGE, ACTIONS, OR IMAGERY.
3. PARTICIPANTS:- REELS CAN FEATURE A SINGLE INDIVIDUAL OR A TEAM.
4. SOCIAL MEDIA:- THE FINAL REEL MUST BE UPLOADED TO THE PARTICIPANT'S PERSONAL INSTAGRAM ACCOUNT.  
INCLUDE THE FOLLOWING HASHTAGS: #SIMPLEENERGY, #EVREVOLUTION, AND ANY ADDITIONAL EVENT-RELATED HASHTAGS PROVIDED BY THE ORGANIZERS. AND TAG BOTH THE SIMPLE ENERGY AND COLLEGES OFFICIAL ACCOUNTS
5. DURATION:- REELS MUST COMPLY WITH INSTAGRAM'S TIME LIMIT (MAXIMUM OF 60 SECONDS).
6. ORIGINALITY:  
ALL CONTENT, INCLUDING MUSIC AND VISUALS, SHOULD BE ORIGINAL OR APPROPRIATELY LICENSED.



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# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

# MICHAFFEST RULES

## REEL MAKING COMPETITION

### JUDGING CRITERIA

1. CONTENT QUALITY: • CREATIVITY AND MESSAGING THAT PROMOTES SIMPLE ENERGY AND ITS EV BIKE.
2. CINEMATOGRAPHY: • VISUAL APPEAL, CAMERA WORK, AND EDITING TECHNIQUES.
3. RELEVANCE TO THE THEME: • THE REEL MUST EFFECTIVELY COMMUNICATE THE PROMOTION OF SIMPLE ENERGY.
4. ENGAGEMENT (LIKES): • THE NUMBER OF LIKES RECEIVED ON INSTAGRAM WILL BE FACTORED INTO THE SCORING. ENSURE THAT YOU FOLLOW ALL RULES TO AVOID DISQUALIFICATION.

HAPPY FILMING!





# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### ROBO SOCCER INTER COLLEGE EVENT

ENTRY FEE: 300/-

RE-ENTRY FEE: 250/-

#### RULES

- ALL THE MATCHES WILL BE 1V1 KNOCKOUT MATCHES.
- THE BOT SHOULD FIT INSIDE A BOX OF 30 CM\*30 CM\*30 CM(L\*B\*H).
- MAXIMUM WEIGHT OF THE SOCCER BOT SHOULD NOT EXCEED 5 KG. (0 TOLERANCE)
- THE BOT CAN HAVE WIRED/WIRELESS CONNECTIONS FOR CONTROL. (THE LENGTH OF THE WIRE SHOULD BE MORE THAN 3 METERS.)
- THE BOT SHOULD BE SELF-POWERED WITH SUPPLY NOT EXCEEDING 12V (ON BOARD POWER SUPPLY).
- PARTICIPANTS CANNOT DRAW POWER FROM AN EXTERNAL SOURCE.
- ONLY ONE PARTICIPANT SHOULD CONTROL THE BOT FOR THE WHOLE TOURNAMENT ONCE REGISTERED, THE CONTROLLER CANNOT BE CHANGED MIDWAY DURING THE TOURNAMENT.
- PARTICIPANTS WILL NOT BE ALLOWED TO CHANGE THE BATTERIES OF THE BOT ONCE KEPT ON THE FIELD.
- THE MACHINE CAN BE POWERED ELECTRICALLY ONLY. USE OF AN IC ENGINE IN ANY FORM IS NOT ALLOWED.
- ALL EFFORTS MUST BE MADE TO PROTECT BATTERY TERMINALS FROM DIRECT SHORT AND CAUSING A BATTERY FIRE, FAILURE TO DO SO WILL CAUSE DIRECT DISQUALIFICATION.



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# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### ROBO SOCCER

- A BOT CAN PUSH OR HIT THE BALL. IT CANNOT WITHHOLD OR GRAB THE BALL. WEDGES, LIFTERS, ANY KIND OF ACTIVE SHOOTING MECHANISM WILL NOT BE ALLOWED.
- HUMAN INTERFERENCE (E.G. TOUCHING THE BOT) DURING THE GAME IS NOT ALLOWED
- DECISION OF THE JUDGES AND EVENT COORDINATORS SHALL BE TREATED AS FINAL AND BINDING ON ALL AND CANNOT BE CONTESTED. THE EVENT COORDINATOR IS THE MATCH REFEREE. HE TAKES ALL THE DECISIONS AND PARTICIPANTS HAVE TO ABIDE BY IT.
- THE FINAL DECISION LIES IN THE HANDS OF THE ORGANIZERS. ORGANIZERS RESERVES THE RIGHT TO CHANGE THE ROUNDS AND THE RULES ON THE DAY OF THE EVENT. IF A PARTICIPANT MISBEHAVES OR DOES NOT OBEY THE RULES AND REGULATIONS OF THE EVENT, ORGANIZERS RESERVE THE RIGHT TO DISQUALIFY THE PARTICIPANT.
- BOTS ARE ALLOWED TO SCORE ONLY BY BALL CONTROL, MANEUVERS, FLICKS OR OTHER SKILLS, RAMMING INTO THE OTHER OPPONENT OR PINNING THE OPPONENT WILL NOT BE ALLOWED (GOALS SCORED BY THESE ILLEGAL MEANS WILL NOT BE CONSIDERED IN THE FINAL SCORES)
- THE MATCH CAN BE PAUSED, STOPPED, OR RE-STARTED BY THE REFEREE AT ANYTIME DURING THE GAME.



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# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

## MICHAFFEST RULES

### ROBO RACE INTER COLLEGE EVENT

ENTRY FEE: 300/-

RE-ENTRY FEE: 250/-

#### RULES

- A TEAM CAN COMPRIZE OF A MAXIMUM OF 4 MEMBERS.
- REGISTRATION WILL BE CONFIRMED UPON PAYMENT OF THE ENTRY FEE ONLY
- ENTRY FEE WILL NOT BE REFUNDED ONCE REGISTRATION IS COMPLETED.
- NO EXTERNAL POWER SUPPLY WILL BE PROVIDED TO THE PARTICIPANTS.
- AN INDIVIDUAL CANNOT BE A MEMBER OF MORE THAN ONE TEAM AND A ROBOT CANNOT BE SHARED BY TWO OR MORE TEAMS.
- IF A TEAM HAS 2 OR MORE BOTS, THE BOTS MUST BE UNIQUE.
- RE-ENTRY WILL BE ALLOWED.
- A PENALTY OF 5 SEC WILL BE ADDED TO THE EXISTING TIME FOR TOUCHING THE BOT IF IT FALLS FROM THE TRACK AND 20 SEC FOR SKIPPING A CERTAIN OBSTACLE. AND 5 SEC TIME PENALTY FOR TOUCHING THE LINES
- THE ROBOTS CANNOT BE CONSTRUCTED OUT OF READYMADE KITS AVAILABLE IN THE MARKET.
- PULLING OF ROBOTS WITH CONNECTED WIRES ON TRACK WILL LEAD TO DISQUALIFICATION



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# PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

# MICHAFFEST RULES

## ROBO RACE

- THE ROBOT SHOULD NOT BE DISASSEMBLED UNTIL THE RESULTS ARE DECLARED.
- FAILURE TO COMPLY WITH THE RULES OR PARTAKING IN UNFAIR MEANS WILL LEAD TO DIRECT DISQUALIFICATION
- THE COORDINATORS DECISION IS FINAL.
- COORDINATORS HOLD THE AUTHORITY TO CHANGE ANY RULES AND REGULATIONS DURING THE EVENT.

### ROBOT SPECIFICATION

- THE WEIGHT OF THE BOT SHOULD NOT EXCEED 5 KG.
- THE ROBOT CAN BE POWERED ON BOARD OR OFF BOARD.
- THE POTENTIAL DIFFERENCE BETWEEN ANY TWO ELECTRICAL POINTS ON THE ROBOT MUST NOT EXCEED MORE THAN 18 VOLTS THROUGHOUT THE RUN
- FOR WIRELESS COMMUNICATION, PARTICIPANTS MUST HAVE AT LEAST 5 METERS OF RADIO RANGE, IT IS RECOMMENDED TO KEEP DUAL FREQUENCIES FOR COMMUNICATION

