

# Government College of Technology

## Department of Production Engineering

### **IMPULSE V4.0**

*Place: Government college of technology, Coimbatore*

*Date: September 14<sup>th</sup> 2011*

#### General Information:

- Both sae and non-sae members can participate
- Any number of teams can participate from the same college
- Registration will be on-spot
- Only once registration is required to participate in any event

#### PAPER PRESENTATION

- Maximum number of participants per team is 2
- Paper should be in IEEE format
- Complete paper must be mailed to [gctimpulse@gmail.com](mailto:gctimpulse@gmail.com)
- Presentation time is 7 minutes and questioning will be about 3 minutes
- Preference will be given for new innovations
- Last date of submission 8<sup>th</sup> September and date of intimation 10<sup>th</sup> September

#### Topics:

- Green technology
- Composite materials
- Recent trends in automotive technology
- Mechatronic approach
- Fuel economy & CO2
- Alternate fuels
- FEM

#### TECHNICAL QUIZ

- Maximum number of participants per team is 2
- Two rounds
  - Written prelims with elimination
  - Finals
- Both rounds will be conducted on the day of symposium

## AUTO QUIZ

- Maximum number of participants per team is 2
- Two rounds
  - Written prelims with elimination
  - Finals
- Both rounds will be conducted on the day of symposium

## CAD MODELLING

- Maximum number of participants per team is 2
- Two rounds
  - Written prelims with elimination
  - Modelling
- Both rounds will be conducted on the day of symposium

## AERO MODELING

- Maximum size of team is 3
- Kits will not be provided
- Kit made of balsa wood is preferred
- Event will be on the day of symposium

### Judging Criteria:

- Airplane Craftmanship = 20%
- Flying range = 30%
- Time of flight = 20%
- Understanding the role of aero parts in flight characteristics = 30%

Judges decision will be final.

## INDUSTRIAL DEFINED PROBLEM

- Maximum number of participants per team is 2
- E-mail your solution in PDF format to [gctimpulse@gmail.com](mailto:gctimpulse@gmail.com)
- Last date of submission is 8<sup>th</sup> of September and date of intimation is 10<sup>th</sup> September

### Topics:

- Design of innovative damper system to reduce the weight transfer from rear to front wheel during braking in motor cycle
- Design of an airbag system which can be reused in cars

# DOMINOES

- Maximum size per team is 3
- Materials allowed as match boxes, wooden pieces, cassettees, etc
- Area allowed 5ft\*5ft
- Setup time allowed 60 minutes
- Maximum number of pieces allowed up to 500
- Parallel steps will gain more points
- Maximum of two interruptions will be allowed per team

Theme:

- Dominoes should form any pattern like GEAR, WAVES, with some message at the end

Contact information:

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