



# Kshatij 2014

## RACE PULSE

### Abstract: Race Pulse

**Please note that if your abstract does not get shortlisted, you are not eligible to participate in the competition.**

Guidelines for the submission of the abstract are as follows:

- **Rename** the .doc file as “Team code.doc” (example: RP001.doc where RP001 will represent the respective Registration code (or Team code) and email the file to race.pulse@ktj.in.
- Fill in the required fields in the sections mentioned below.
- Kindly do not exceed the word limit mentioned in respective sections and do make sure that you type the document **only** in Times New Roman (size 12).
- Support your write up with appropriate **images** of your machine. Note that even photos of incomplete machine may be attached and if it is not possible to include the pictures then try and integrate 2d plans/CAD drawings in the abstract.
- This information shall be considered valuable for deciding Design / Innovation prizes. The abstract of your machine will be helpful everywhere in future as an evidence of your hard-work, along with determining your position for the competition. So please pay adequate attention to it.

Fill in the following details:

Registration Code:

Team Leader:

Contact number:

Team Member(s):

Only one submission per team is allowed. If more than one are submitted the first would be considered.



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**The details of the abstract will remain confidential with the manager of the event.**

Fill in the information about your machine in the respective sections as mentioned below:

1. Describe the chassis layout of your model with the help of diagrams. Show the pictures of the chassis in current state and an image of empty chassis (if possible).



2. Describe the suspension mechanism of your model. Explain it along with proper diagrams and the pictures of your suspension system.





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3. Describe the steering mechanism of your model. Explain it along with proper diagrams and pictures of your steering system.



4. Describe the brake mechanism of your model. Explain it along with proper diagrams and attach actual pictures of your brake mechanism.





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5. Give the specification of you all the parts that you have used readymade in your model. Write in the details of your engine, clutch, motors/actuators used, shock absorbers and/or springs, remote control and its frequency.



6. Mention if you have anything different in your model than the regular RC IC Engine Car with steering control, suspension and brake mechanisms.



7. Show the details of expenditure on your model like fabrication costs, manufacturing costs, and others.





8. If you decide to upscale your model car, so that a human being can be accommodated in the car, what specific changes will you do in your model? Give a brief description of various aspects.



9. Describe any advantageous/innovative ideas or mechanisms you have used for the competition.

