Techkriti Grand Prix

**Abstract**

**Please note that only the shortlisted teams will be eligible to participate, hence fill the abstract with utmost sincerity.**

Guidelines for the abstract:

1. Kindly keep your explanations short and to the point. (max. word limit: 400 words)
2. Briefly explain the following points. Support your text with suitable diagrams and images and CAD screenshots, if applicable.
3. Kindly make sure that the explanations are only typed in **CALIBRI** font with SIZE **12**.
4. The abstract file should be renamed and converted to a PDF file as “Team\_name.pdf” file (e.g. a team having name “ABCD” should rename and convert the file to “ABCD.pdf”)

5. This PDF file is then to be emailed to tgp@techkriti.org

6. Deadline for abstract submission: 15th January,2017

**Note: Techkriti will not be responsible for any email bounces. We will be sending you a confirmation mail as soon as we get your abstract.**

Fill in the following details:

**TEAM’S NAME:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No. | Team Member | College | Email | Contact Number | TECH ID |
| 1 | (Team Leader’s Name) |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
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| 8 |  |  |  |  |  |

1. Describe the chassis layout of your car. Attach images with and without other parts stacked/attached to the chassis. What material did you use for fabrication and why?
2. Describe the steering mechanism of your car. Explain it along with proper diagrams and images, CAD file screenshots. Specify the kind of motor used for this purpose.
3. Describe the suspension mechanism of your car. Explain it along with proper diagrams and pictures. Clearly mention the specific parts you manufactured. Specify the material/machine processes used and why are the used?
4. Did you do any stress analysis for the chassis you built? The analysis may have been done on software like Autodesk Inventor, Ansys, Solidworks etc. Discuss the results of your analysis and support the presented facts with screenshots of actual tests you carried out.
5. Jot down the details of any parts you fabricated to incorporate protective/safety measures.
6. Your innovation! (if any)
7. In case you have any past experience in RC Racing, please provide the details here. Mention the name of the college and the event you participated in.
8. Attach the relevant images and videos of the car if you have any presently.