

Faculty of Engineering & Technology,
SRM Institute of Science and Technology, Kattankulathur 603203
Department of Mechanical Engineering, B.Tech/Mechanical Engineering
15ME496L – Major Project
Project proposal form – 2020-21

Date: 14/10/2020

Project Guide Details:

| S.No | Project guide Name | Room No | Mobile No | Signature | Remarks |
|------|--------------------|----------|---------------|-----------|---------|
| 1. | Mr. Joji Johnson | MEHA 207 | +919884214230 | | |
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Project Member Details:

| S.No | Student Name | Reg. No | Email Id | Mobile No | Signature |
|------|----------------------|-----------------|----------------------|---------------|-----------|
| 1. | A. Rahul Aravind | RA1711002010024 | am7323@srmist.edu.in | +918939119379 | |
| 2. | Prasanth Chowdary. Y | RA1711002010049 | py7070@srmist.edu.in | +918825953241 | |

Project Title:

Modelling and Testing of Bifacial solar PV systems

☐ Manufacturing
 ☐ Design
 ☒ Thermal
 ☐ Multidisciplinary

Category of Project (Please Tick):

| | | | | | |
|--------------------------|----------------------|--------------------------|--------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> | Numerical/Simulation | <input type="checkbox"/> | Experimental | <input checked="" type="checkbox"/> | Numerical/Simulation and Experimental |
|--------------------------|----------------------|--------------------------|--------------|-------------------------------------|---------------------------------------|

If Category falls on Experimental Work Due to pandemic situation Guide are asked to explain the availability of the facility/ When, where and How the experimental work is going to complete.

Project Objectives:

| S.NO | Objectives |
|------|--|
| 1. | Study of performance of Bifacial PV with respect to Monofacial PV system |
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Project Outcome:

| | | | | | | |
|-------------------------------------|---------------------|--------------------------|--------------|--------------------------|----------------|---|
| <input checked="" type="checkbox"/> | Journal Publication | <input type="checkbox"/> | Book Chapter | <input type="checkbox"/> | Patent filling | Guide Signature: Please ask the guide and tick. |
|-------------------------------------|---------------------|--------------------------|--------------|--------------------------|----------------|---|

References:

| S.NO | Reference paper Details |
|------|--|
| 1. | In-field characterization of key performance parameters for bifacial photovoltaic installation in a desert climate; Renewable Energy; 2020. |
| 2. | Modelling of bifacial gain for stand-alone and in-field installed bifacial PV modules; 6th International Conference on Silicon Photovoltaics, Silicon PV 2016; 2016. |

Guide signature

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Instructions for Major Project

1. Students are informed to form a project group with maximum of 2 members. Select the project based on the project domain (Thermal/Design/Manufacturing)
2. Students are asked to approach the faculties as per their area of interest to select the project guide.
3. Select the type of project whether industrial project or academic project.
4. Students are informed to fill the project proposal form and scan and submit the copy in the google form or before **15/10/2020**
5. If students willing to do industrial project, they should select one faculty from mechanical department as internal guide and one employee in the industry as external guide where he want to do the project. The industry should be reasonably medium to large scale. The project work to be carried out at the industry must be relevant to mechanical field and worthy to pursue.
6. In case of industrial project, student should submit the documents (permission letter) that show the approval by the industry to do the project. Also students need to submit the filled project proposal form. Students must attend the project review which is being duly scheduled.
7. Each faculty members are allowed to guide 2 UG project group and 1 PG project.
8. **The zeroth review will be conducted on 2st week of Oct 2020.**
9. During zeroth review each project group should give presentation regarding their project and the review member will check the feasibility of doing project and approve it to proceed further.
10. Students are strictly not allowed to change the project group, project domain and project members after completing the zeroth review.
11. **Student/Guide are sole responsible for the completion of project and conversion of projection into journal publication, Product development and patent etc...**
12. **Student should update the status of manuscript preparation in each review with guide signature. Final manuscript should be submitted to the journal on or before of third review.**

Project coordinator

Head of the Department