

# IIITDM Kancheepuram

## Inviting Applications for HEMS'22 Internship under AV VRITIKA Scheme-2022

### About IIITDM Kancheepuram

IIITDM Kancheepuram, a centrally funded institute offers UG and PG programs in computer, electronics and mechanical engineering with the mandate of excelling in IT and IT enabled Design & Manufacturing pedagogy and research. B.Tech, M.Tech, in core areas of engineering and specializations such as M.Tech (Data Science & AI), B.Tech CSE with specialization in Artificial Intelligence etc. are offered by us. Curricula for these programmes augment engineering domain with relevant design & manufacturing skills. More details at [www.iiitdm.ac.in](http://www.iiitdm.ac.in)

### About VRITIKA Research Internship Scheme

VRITIKA' is the call for initiation and practice in science through Training and Skill Internship. This program aims to provide opportunities to promising PG students from universities and colleges to get exposure and hands-on research skill development experience. These internships will primarily be facilitated by organizations / institutions / laboratories of national importance.. For further details visit the following links: <https://acceleratevigyan.gov.in/programs/abhyas/vritika> & <http://serb.gov.in/abhyaas.php>

### About the Internship

### Hybrid Energy Management System for Electric Vehicles 2022 (HEMS 22)

The proposed internship programme is in the area of Hybrid Energy Management System for Electric Vehicles. Design of energy source for Electric vehicles is an emerging area in which the optimization of capacity of various sources could be arrived at towards the goal of maximizing the range of the vehicle.

#### USP's of the Programme:

- Modeling of Supercapacitor
- Balancing of supercapacitor cells
- Cell level modelling and balancing of Batteries
- Pack level Modeling
- Hybrid Energy Management System

### Internship Details

- ❖ **Duration:** Nov 01 2022 to Dec 31 2022
- ❖ **Place of Internship:** IIITDM Kancheepuram, Chennai
- ❖ **Required Number of Interns:** 05
- ❖ **Reporting Date for Selected Candidates:** Nov 01 2022
- ❖ No Stipend will be provided for the Internship. Boarding and Lodging Expenditures, and other expenditures incurred as part of internship for consumables, travel, etc. shall be supported as per the Scheme Approval of SERB AV VRITIKA.
- ❖ Certificate will be provided to the interns after the successful completion of the internship tenure.

### Who can Apply?

- ❖ Regular PG-Level Students who are currently pursuing their degree from Institutions within India.
- ❖ The Intern should be interested/knowledgeable in mathematical modelling..

### How to Apply?

- ❖ The candidate shall apply by filling out the given google form.
- ❖ [https://docs.google.com/forms/d/1bbkp7Sj7m9OJhgLQw\\_tuRETtw0TV7PLzPY5Bt7gkWNg/edit](https://docs.google.com/forms/d/1bbkp7Sj7m9OJhgLQw_tuRETtw0TV7PLzPY5Bt7gkWNg/edit)
- ❖ Deadline for Application: 25<sup>th</sup> October 2022
- ❖ Shortlisted candidates shall be intimated via email on or before 28<sup>th</sup> October 2022.....

### Selection Process

- ❖ Based on applicant profile merit
- ❖ Candidates with prior research exposure, area match and performance in national level exams will be prioritized.
- ❖ Consistent Good Academic Record

### Address for Correspondence:

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