

IIITDM Kancheepuram

Inviting Applications for QCTB'23 Internship under AV VRITIKA Scheme-2023

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

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

DESIGN AND DEVELOPMENT OF QUADCOPTER TEST BENCH 2023 (QCTB 23)

The proposed internship programme is in the area of developing a test bed using various sensors to optimize the energy consumption of a battery driven quadcopter.

USP's of the Programme:

- Simulation of dynamics of the quadrotor system
- Development of a test bench to study the torque speed characteristics of the drive motors
- Development of power converter for the motors
- Development of algorithm in closed loop to control the motors to obtain the required thrust and angle control

Internship Details

- ❖ **Duration:** May 01, 2023 to June 29, 2023
- ❖ **Place of Internship:** IIITDM Kancheepuram, Chennai
- ❖ **Required Number of Interns:** 05
- ❖ **Reporting Date for Selected Candidates:** May 01, 2023
- ❖ 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/155zi_DyQ-8JrIqTGhS_LcHhMxosmUQ_Vd6BVD9_ySWA/edit
- ❖ Deadline for Application: 28th April 2023.
- ❖ Shortlisted candidates shall be intimated via email on or before 30th April 2023.

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:

Dr. K. Selvajothi, Assistant Professor, Department of Electronics and Communication Engineering, IIITDM Kancheepuram, Melakottaiyur, Off Vandalur - Kelambakkam Road, Chennai-600127

Email: ksjyothi@iiitdm.ac.in

Contact Number: 9445568385