



## Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 9001-2015 Certified

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### OFFICE OF DEAN ACADEMICS

#### Policy Document

KLEF/ODA/KLEF/ODA/2.11/P220001/2022/V1.0

Date: 25/07/2022

#### **Title: M. Tech., Dissertation (Engineering Departments)**

##### **Policy:**

M. Tech., dissertation is a culminating assignment carried out by the postgraduate students during the third and fourth semester of the program which helps them to apply the knowledge gained over the previous years of study. Students should focus on designing solutions for complex engineering problems through technology.

##### **Outcomes:**

- Encourage students to think critically and solve challenging problem(s) by designing innovative solutions through the acquired technical expertise.
- Develop skills related to communication, project management, inquisitive learning, and teamwork.
- Promotes the culture of research among the students leading to enrolment into PhD programmes or securing opportunity to work with the research and development divisions of leading multinational companies.

#### **Guidelines for Dissertation Work/Industrial Internship:**

##### **Allocation of Supervisor/Co-supervisor**

- The supervisor/guide will be allotted to the students at the end of first year through Departmental postgraduate (PG) Coordinator(s) for carrying out their dissertation in phase- I & II.

- The provision of Co-supervisor is permissible to those students whose work requires multi- disciplinary research.
- The same supervisor(s) will be guiding the students in both phase-I & II of Dissertation across third and fourth Semester respectively.

### **Duties of Supervisors**

- The respective supervisor will ensure that they are giving sufficient time to their assigned students for the purpose of dissertation.
- The guides are also required to direct their students to submit and present a concise progress report to PG Coordinators as per the schedule given by the department.
- Students are required to contact supervisor for a minimum of 50% of the allotted hours as per the timetable and take the necessary directions. Supervisor should maintain the attendance for such contact hours and update that information with the PG coordinator.
- The guides should ensure that at every stage of work during dissertation, there should not be any compromise with the quality and standards.

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### **Group size for Dissertation**

Dissertation work needs to be carried out individually by all the students.

### **Problem Identification**

- The students are required to formulate/identify the problem for the dissertation or industrial internship, based on the literature survey done in their 2nd semester, in consultation with the supervisor and submit a synopsis (with 3-5 pages) with a clear problem identification and plan of work within two weeks of commencement of 3rd semester.
- In general, the problem identified for the Phase –I of dissertation in third semester will be extended for phase-II in fourth semester.

- Only in rare cases, the student may be allowed to change his/her domain area of dissertation with due permission of HoD based on recommendation of the concerned guide and PG Coordinator.

### **Scope/Deliverables of Dissertation**

- Students are required to propose a novel idea or propose a modification of existing approach with proper validation of the same using specific tool(s), simulator or technology etc.
- Students may carry a detailed comparative analysis of existing techniques in the identified area using specific tool(s), simulator or technology etc. as part of deliverable.
- Students may pursue industrial internship as part of their phase-I of dissertation. They may work on an industrial problem with one supervisor from the department and one from industry. Internal supervisor will oversee the progress from time to time.
- During the period of phase-II of dissertation, student must work with a focus on extending the work carried out in phase-I.
- Students may propose a novel idea or propose an extension of the approach used in phase - I with proper validation of the same using specific tool(s), simulator or technology etc. as the part of deliverable.

### **Conduction of Reviews**

- The department will conduct three internal reviews and one external review for each phase of dissertation to evaluate the progress made by the students.
- The students will present their cases by preparing a presentation and submitting are port as per the format prescribed for the same to the review committee appointed by the PG Coordinator of the department.

### Submission of Dissertation

- The submission of the dissertation for final review by the external experts is subjected to at least one research paper accepted / published by the student in 3<sup>rd</sup> or 4<sup>th</sup> semester of study relevant to their dissertation area highlighting the work done by the student.
- The date of submission of dissertation will be as per the academic calendar communicated by the Office of Dean Academic and no further extension will be given.
- The supervisors and the students are advised to go through the plagiarism check of the thesis to ensure that the plagiarism is not more than 10% using the licensed plagiarism software and submit a report of the same along with thesis at the time of final submission.
- If a student is unable to submit the dissertation as per the academic calendar, their final review will be conducted later date based on the written request for extension forwarded by the supervisor through the HoD to the Office of Dean Academics.
- Students are advised to strictly adhere to the timelines and formats of phase - I and phase - II of dissertation (given by PG coordinator) for submitting their progress reports and final dissertation.

### Review Schedule and Weightages:

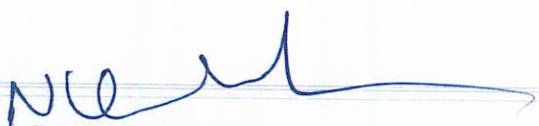
Component	In Semester (60)			End Semester (40)
	Review 1	Review 2	Review 3	Final Review
Weightage	20	20	20	40
Max. Marks	50	50	50	50

\* Schedule to be released by the departments prior to the commencement of the semester

**Evaluation plan:**

In Sem Reviews	End Sem Review	Score
Project Diary - Daily Updation	Project Report - Quality (in terms of following the guidelines) & Plagiarism	10
Project Management - Milestones and Documentation Regular Updation		10
Results Demonstration - Simulation/Model/Product/Solution Results		10
Presentation - Slide Deck and Presentation Skills		10
Guide Marks	Viva Voce	10

\*Rubrics to be decided by the PG coordinator of the respective department in consultation with the Guide.



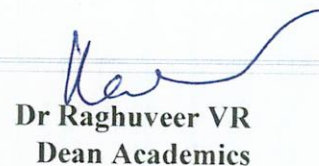
**Dr N Venkatram**  
Pro Vice Chancellor

**Prof. N. VENKATRAM**  
Pro-Vice Chancellor (Admin)



**REGISTRAR**

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Dean Academics

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