

| | |
|-----------------------|-----------------------------|
| COURSE TITLE | DISSERTATION PHASE-I |
| COURSE CODE | 01CA1301 |
| COURSE CREDITS | 10 |

Objective:

- 1 Objective is to make significant or at least decent contribution to research. Thesis work may be an expansion on past work in the field or an improvement to the existing state-of-the-art. It might also reaffirm the results of previous work or solve new problems, or develop new theories. In short, thesis is to contribute something new to the field with proper proof and analysis.

Course Outcomes: After completion of this course, student will be able to:

- 1 Analyse research gaps in a chosen CAD/CAM domain through a comprehensive literature survey and formulate a well-defined research problem.
- 2 Evaluate existing methodologies and state-of-the-art solutions to identify limitations and justify the proposed research approach.
- 3 Apply appropriate research methods and preliminary experiments or computations to validate the feasibility of the proposed solution against standard benchmarks.

Pre-requisite of course:NIL

Teaching and Examination Scheme

| Theory Hours | Tutorial Hours | Practical Hours | ESE | IA | CSE | Viva | Term Work |
|------------------------|-----------------------|------------------------|------------|-----------|------------|-------------|----------------------|
| 0 | 0 | 20 | 0 | 0 | 0 | 200 | 200 |
| Contents : Unit | Topics | | | | | | Contact Hours |
| Total Hours | | | | | | | |

Suggested List of Experiments:

| Contents : Unit | Topics | Contact Hours |
|--------------------|---|---------------|
| 1 | <p>In this part of the dissertation work, students are expected to select any major topic in the area of CAD/CAM to start dissertation work. Student can opt IDP/UDP based on their choice and availability of the supervisor in the Institute/Industry. Through literature review relevant to topic of dissertation should be carried out to decide Aim, Objectives, and scope of the project work. Students should select appropriate method of solution and primary results of experiments/computations should be validated against the available standard solution in the open literature.</p> <p>To decide the area of research work and finalize the supervisor , To decide the objectives, Work methodology. Students are expected to complete the feasibility work</p> | 20 |
| Total Hours | | 20 |

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

| Distribution of Theory for course delivery and evaluation | | | | | |
|---|------------|-------|---------|----------|----------------------------------|
| Remember / Knowledge | Understand | Apply | Analyze | Evaluate | Higher order Thinking / Creative |
| 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | |