COURSE TITLE	**DISSERTATION PHASE-II**
COURSE CODE	**01CA1401**
COURSE CREDITS	**16**

Objective:

1 To undertake research in an area related to the program of study so as 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.

2 To undertake research in an area related to the program of study so as 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 the defined research problem and apply appropriate experimental, simulation, or computational methods to generate credible results.

2 Evaluate research findings critically to determine their contribution toward development of a new or improved product or process benefiting society.

3 Apply the solution proposed in Dissertation Phase-I to execute experiments or simulations and obtain validated results aligned with defined objectives.

4 Analyse and compare results against existing literature to justify the effectiveness and limitations of the proposed approach.

5 Evaluate the overall research work, document it as a comprehensive thesis report, and defend findings through a viva voce examination.

Pre-requisite of course: Dissertation Phase-I

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	32	0	0	0	200	200

Contents : Unit	Topics	Contact Hours
Total Hours		

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**M.Tech dissertation should be socially relevant and research-oriented ones. Each student is expected to do an individual project. The project work is carried out in two phases – Phase I in III semester and Phase II in IV semester. Phase II of the project work shall be in continuation of Phase I only. At the completion of a project the student will submit a project report, which will be evaluated (end semester assessment) by duly appointed examiner(s). This evaluation will be based on the project report and a viva voce examination on the project.** Student will be allowed to appear in the final viva voce examination only if he / she has submitted his / her project work in the form of paper for presentation / publication in a conference / Journal and produced the proof of acknowledgement of receipt of paper from the organizers / publishers., Student has to completed experiments/simulations/validation and justify his/her defined objectives of the research work	32
Total Hours		**32**

Textbook :

1 Research Methods for Engineers , David Thiel, Cambridge University Press , 2014

References:

1 Engineering Research Methodology , Engineering Research Methodology , Dipankar Deb, Springer , 2019

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**
10.00	20.00	20.00	20.00	20.00	10.00

Instructional Method:

1 Research work by student

Supplementary Resources:

1 https://www.youtube.com/watch?v=D94hTcQaEds