Marwadi University

Master of Technology

Structural Engineering

Dissertation Phase - I

01ST1301

Course Objectives

- To explore, learn and develop skills for carrying out the technical research.
- To develop a systematic approach for problem-solving skills.
- To acquire the skills and capacity of producing scientific documents and journals.
- To relate the real-time challenges and issues with the academic contents and learn to provide solutions.

Credit Earned: 10

Students learning outcomes:

After successful completion of the course, it is expected that students will be able to

- Develop research-based learning skills and capability to identify the challenges of real-time situations.
- Analyze challenges and apply the technical skills, knowledge, and methodologies to solve field-oriented problems.
- Learn about how to prepare and share/publish/present the research work within the fraternity.
- Identify the field problem and design the optimal solution of it.

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	CSE (M)	Internal (I)	Viva (V)	Term Work (TW)	
00	00	20	10	-	-	-	100	100	200

Standard guidelines for project work

The subject aims to the overall development of an individual to identify real-life challenges and work for solutions with available resources. In addition, the subject focuses on technical knowledge utilization, the notion of service to the society and industry interaction of the postgraduate students for their professional careers.

The suject has two parts to be completed with the duration of six months for each. The student will select a research topic by combining the area of interest and relevant field challenges or gaps in the concurrent practices.

Following are some directives and minimum requirements of the successful completion of the subject;

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Phase I [1 month]

- Identification of area and topic of interest.
- Evaluate the current state of knowledge for the possibilities of the research gaps.
- Data collection and review summary
- Finalizing the dominant research gap / major challages in the field.

Phase II [2 months]

- Streamline the title, aim, objective and scope of the work.
- Check for the required and available resources.
- Finalize the aim, objectives and scope of work.
- Planning for the workflow and schedule of implementation of the work.
- Pilot studies/field studies for fine-tuning and confirmation of the correctness of the hypothesis.

Phase III [1 month]

- Target to prepare a review paper for publication.
- Starting the main work as per the objectives.

Phase IV [2 months]

- Continue with the ongoing work with noticeable progress.
- One technical presentation on the completed work.
- If necessary, modify or include the changes in the work as per the review committee.

Remarks:

- The supervisor will confirm the student's satisfactory progress by discussing technical and content-related matters by online/offline modes as and when required.
- At least two progress reports in six months will be submitted to the academic head by the students.