

GUJARAT TECHNOLOGICAL UNIVERSITY
MASTER OF COMPUTER APPLICATIONS (MCA)
Semester: V

Subject Name: **Dissertation (DSRT) &Project Defination**
Subject Code: **650018**

Learning Objectives:

- To gain an experience of a subject (area) of interest.
- To make an initial attempt at doing some research on the selected area / topic.
- To review research papers and white papers, etc. published in journals and conference proceedings of repute.
- To compile, organize and present the material collected from various sources in the form a white paper or a report of good value.

Prerequisites:

Searching on the Internet, Word Processing Software, Technical Writing Skills

Guidelines:

- It is a team work – team consisting of preferably two (in no case more than three) students. In special cases, a single student team is acceptable.
- The topic (area) will be either chosen by the students or else it may be suggested by the Institute (College).
- Each team will be allotted a faculty member who will be their mentor.
- It is advisable that the finalization of topic and major milestones is completed within 15 days from the date of start of the semester.
- The mentors will assess the progress of the students allocated to them on ongoing basis based on the following parameters:
 - Topic finalized, and milestones identified
 - Schedule preparation (keep at least 15 days for completing the final report. Report writing may involve several [4 or more] cycles of writing-checking-corrections-checking-.....)
 - Quality of material collected in terms of (a) relevance, (b) research material, (c) experimentation and analysis, etc.
 - Quality of literature review, and finally,
 - Report preparation
- The report should be preferably of more than 40 pages.
- The report contents shall include:
 - Title Page
 - Acknowledgement
 - Table of Contents
 - Glossary of Important Terms and Abbreviations
 - List of Tables, if any
 - List of Figures and Charts, if any
 - Main Text
 - References
 - Appendices

- The Main Text shall include the following:
 - Abstract
 - Key Terms
 - Introduction
 - Literature Survey
 - Major Theses and Hypotheses Presented
 - Data and Analysis, if relevant
 - Results and Discussion
 - Conclusion and Future Directions
 - The line spacing: 1.5.
- Reference Guidelines:
 - Format: Author Name(s) followed by comma (,) followed by Title enclosed within double quotes, followed by Journal/Conference Proceedings Name followed by Volume, Number, Year, ISSN/ISBN No. (In case of books, publisher's name, edition, year of publication, ISBN No.)
 - Should be arranged in alphabetical order of the first author's name, and should be numbered consecutively.
 - Documentation Style: IEEE referencing standards to be followed.

Accomplishments of the student:

- The art and science of literature survey and sourcing of the relevant material on the area/topic of interest.
- Awareness of current trends in Information Technology field.
- First-hand feel of research orientation and analytical thinking ability.
- Compiling and synthesizing advanced technical information from diverse sources.
- Technical Report writing skills.