



Karnataka State Open University
Manasagangotri, Mysore - 570006

Karnataka State Open University, Mysore
M.Tech.(IT) 3rd Semester

KENT
INSTITUTE OF
HIGHER EDUCATION

**Guidelines for Dissertation Part– I
(Synopsis)**

1. What is a synopsis?

A brief outline or general view, as of a subject or written work; an abstract or a summary.

2. What should be the contents of synopsis?

The contents of the synopsis should contain the following –

- I. Title of the Dissertation.
- II. Approval by the Internal and External Supervisors (Annexure – I)
- III. Bio data of the Internal and External Supervisors
- IV. Introduction and Objectives of the Dissertation.
- V. Dissertation category.
- VI. Tools/ Platform, Hardware and software Requirement specification.
- VII. Problem Definition, Requirement Specification.
- VIII. Scope of the solution.
- IX. Analysis
- X. Future scope and further enhancement of the Dissertation.
- XI. Bibliography

3. What type of topics can be chosen for dissertation?

Each candidate should work independently on a chosen topic. Two or more candidates should not do any project jointly. The chosen topic of work should be non-trivial, analytical, and application-oriented and should involve substantial original research and/or development effort based on a specific theme. Any attempt at plagiarism or use of unfair means will result in severe disciplinary action.

Candidates should choose only topics for which the work done can be **presented, demonstrated, and defended** before a panel of examiners. Candidates may note that in cases where no demonstration is perceived to be possible by the candidate / employer, due to technical or professional reasons, a letter on the official letterhead of the employer clearly stating this infeasibility, duly signed by the Project Manager of the candidate (or equivalent officer or higher) and brought by the candidate at the time of viva-voce. **However, the University reserves the right to examine the validity of claims made and insist on a live demonstration in presence of its nominees.**



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Mere configuration, installation, testing and routine maintenance, support or management of systems or equipment will not be considered adequate for a Dissertation. Trivial, Small projects which are commonly done as assignments in courses are not acceptable as Dissertation. Mere survey of literature/data collection would also not be acceptable as a Dissertation.

- Work of the organization towards Certification of Quality Management (like ISO, CMM) should not be included. This will be viewed as organization's effort.
- The work undertaken should be clearly visible and should pertain to that work accomplished during the current semester.
- The work should not result in mere compilation of information pertaining to organization/project handled. It should be adequately described.

Broad Areas for Dissertation

1. Artificial Intelligence
2. Computer Graphics
3. Compiler Construction
4. Computer Networking
5. Database Systems and Applications
6. Data Warehousing and Data Mining
7. E-Business
8. Embedded Systems
9. Pervasive Computing
10. Internetworking Technologies
11. Multimedia Computing
12. Network Security
13. Microprocessor Based System Design
14. Operating Systems
15. Real Time Systems
16. Software Engineering & Management
17. Software Testing and Quality Assurance
18. Software Architectures



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19. Wireless and Mobile Computing
20. Telecom Switching Systems and Networks
21. VLSI
22. Biometrics
23. Enterprise Resource Planning
24. Natural Language Processing
25. Object Oriented Analysis and Design

4. SUPERVISOR

4.1 Supervisor for Dissertation

Each student shall have two supervisors for dissertation. They shall be called as Internal Supervisor and External Supervisor.

4.2 Supervisor Qualification

The M.Tech IT faculty at the centre can be the internal supervisor of the student. The internal supervisor should be at least M.Tech in IT or Computer Science / Engineering or its equivalent or PhD in Computers with at least 3 years of teaching / industry experience.

The external supervisor should M.Tech in IT or Computer Science / Engineering or its equivalent or PhD in Computers with at least 5 years of teaching / industry experience. The external supervisor shall not be associated with the centre in any manner.

4.3 Change of Supervisor

In the event of the registered supervisor leaving the Institute for any reason or in the event of death of guide, guide may be changed with permission from the University.

5. Procedure for approval of synopsis



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A proposal (synopsis) will be prepared by the student after consultation with the supervisor who may be the MTechIT faculty at the centre. The topic needs to be approved both by the internal and external supervisor.

6. Evaluation of synopsis

The evaluation of synopsis shall be done based on the contents of synopsis, power point presentation and demonstration by the student. **A viva-voce shall be conducted at the end of the session by University appointed examiners at various examination centres as approved by the University.**

7. Distribution of Marks

The Synopsis has two components of evaluation –

7.1 Internal Assessment – It carries a maximum of 50 marks which shall be awarded by the internal supervisor, the report of which shall be sent to the university in the available IA format

7.2 External Assessment – It carries a maximum of 150 marks, the breakup of which shall be based on the following components –

Component	Maximum Marks
Content of Synopsis	50
Presentation of the Work	50
Presentation of Results, Discussion, Conclusion	20
Viva	30