



**Department of Information Technology**  
**School of Engineering & Technology**  
**Central University of Kashmir**  
**Ganderbal (J&K)**

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## **Guidelines for preparing Dissertation**

**Course: Project Phase II (Dissertation)**  
**Code: MTIT C 401**

**The following suggested guidelines must be followed in preparing the Dissertation:**

Good quality white paper A4 size should be used for typing and duplication.

Care should be taken to avoid smudging while duplicating the copies.

Project dissertation should not be less than 60 pages and more than 100 pages.

**Normal Body Text Font Size-** 12, Time New Roman, Double Spacing, Justified.

**Paragraph Heading Font Size-** 14, Time New Roman, Underlined, Left Aligned.

**Chapter Heading Font Size-** 20, Time New Roman, Center Aligned, 30 points above and below spacing.

**Code snippet Font Size** (if any)– 10, Courier New, Normal.

**Page Margins-** left 2.5 cm. Right, Top and Bottom 2 cm.

**Tables:** Legend on top aligned to left of the table, font size 10

**Images:** Legend on bottom, center aligned, font size 10

**Citation:** Standard format preferably IEEE

**Footnote:** Wherever required

**Page Numbers:** Bottom of the page on the right corner. (Page numbering should start from Main Report)

**Format of the Project Report.**

- i. Cover page as per the format provided by the Department
- ii. Title Page as per the format provided by the Department
- iii. Certificate of Internal guide counter signed by HOD.
- iv. Acknowledgement.
- v. ***Plagiarism Undertaking from student***
- vi. List of Abbreviations
- vii. Abstract
- viii. Table of contents
- ix. Main Report.
  - ❖ Introduction to the project.
  - ❖ Objectives/ Scope
  - ❖ Related Work/ Literature Review /Existing System

- ❖ Proposed System/ Methodology /Proposed Solution
- ❖ Feasibility/Practicability
- ❖ Analysis & Design. (where ever applicable)
  - Data Flow Diagrams/ UML
  - Data Model/Database Design/ Tables/ procedures/ triggers etc
  - Mathematical Model (if any)
  - System Architecture
- ❖ Data Works (where ever applicable)
- ❖ System Implementation
 

Coding; Algorithms; data processing, feature extraction, Applying models, Simulation details, Interaction between hardware/software components; Working; Integration.
- ❖ Evaluation of Results, Graphs, charts etc
- ❖ Snapshots (if any)
- ❖ Tools & Utilities: Environment, Software, simulators, APIs, Software Components, Online Services and tools & Hardware details.
- ❖ Limitations / Drawbacks.
- ❖ Future Enhancement.
- ❖ Conclusion.
- ❖ Bibliography (IEEE format)
- ❖ Project Summery
- ❖ Appendix A (copy of Research Papers/ Articles Published by student on the topic/ appreciation letters/ awards/ certificates received on the topic during the project period)

**Project Submission:** By or before the last date for the submission of projects, students are required to submit **two** hard copies of dissertation to the Project Committee. Hard cover should be of Maroon color with golden text (contents of Cover page). Year should be clearly written on the edge of the binding at its upper end. Submission of soft copy of project work on CD including the code and database, other software components, ppt is mandatory.

*(If the company/ organization in which the student has done his project is not allowing the student to submit the code in university then the student needs to produce a letter from company/ organization declaring the same.)*

Coordinator  
Department of Information Technology  
Central University of Kashmir

<Cover page sample>

# **Energy Efficient Routing Protocols in Wireless Sensor Networks to Extend Network Lifetime**

*Submitted by*

**Waseem (180224)**



In the partial fulfillment of the requirement for the award of degree of  
**Master of Technology in Information Technology**  
**(M. Tech. IT)**

Submitted To

Department of Information Technology  
Central University of Kashmir  
Ganderbal, J&K.

2020

<Title page sample>

# **Energy Efficient Routing Protocols in Wireless Sensor Networks to Extend Network Lifetime**

**Submitted By**

**Waseem (180224)**



In partial fulfillment of the requirement for the award of degree of  
**MASTER OF TECHNOLOGY IN INFORMATION TECHNOLOGY**  
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**Central University of Kashmir**  
**Ganderbal, J&K.**

**2020**

# Department of Information Technology

Central University of Kashmir

Srinagar, J&K.



## CERTIFICATE

This is to certify that the project titled "*Energy Efficient Routing Protocols in Wireless Sensor Networks to Extend Network Lifetime*" has been carried by:

Mr. Waseem

under my supervision, in the partial fulfillment of the requirement for the award of degree of Master of Technology in Information Technology (M. Tech. IT) during the academic year 2020.

Supervisor:

Afaq Alam Khan

Assistant Professor,  
Department of Information Technology

Head

Certified that I have examined the project titled "*Energy Efficient Routing Protocols in Wireless Sensor Networks to Extend Network Lifetime*" on \_\_\_\_\_

External Examiner

## Plagiarism Undertaking

I solemnly declare that research work presented in the dissertation titled "*Energy Efficient Routing Protocols in Wireless Sensor Networks to Extend Network Lifetime* " is solely my research work. Small contribution/help wherever taken has been duly acknowledged and that complete dissertation has been written by me.

I understand the zero tolerance policy of the Central University of Kashmir towards plagiarism. Therefore I as an Author of the above titled dissertation declare that no portion of my dissertation has been plagiarized and any material used as reference is properly referred/cited.

I undertake that if I am found guilty of any formal plagiarism in the above titled dissertation even after award of degree, the University reserves the right to take action against me as per University norms.

Student /Author Signature:\_\_\_\_\_

Name:\_\_\_\_\_