Check Sheet for B. Sc. Thesis Proposal and Topic Approval

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Certified that the Synopsis/Topic approval report is according to the items listed in Check Sheet.

Undergraduate Students,

Department of Electrical Engg.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.Sc. Thesis Proposal

Title of B Sc Thesis Topic Proposal



Submitted By

Name of Students

Student’s Registration Numbers

Supervisor

Name of Supervisor

Supervisor’s Designation

Department of Electrical Engineering

Faculty of Electronics & Electrical Engineering

University of Engineering & Technology

Taxila

Month Year

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1. Problem Statement

A problem statement is a concise description of the SDP question that needs to be addressed.

|  |  |
| --- | --- |
| **First paragraph:** | Very brief and to the point introduction of SDP area. |
| **Second Paragraph:** | 1. State the problem clearly which you have to solve in proposed SDP. 2. Describe how the proposed SDP will be validated |

Further details regarding the problem statement can be referred in [1], if required.

References are not required to be cited in text of problem statement.

1. Aims & Objectives

No paragraph required here. Write aims and objectives using brief and crisp statements numbered like a), b), …..

Example:

1. Optimized design
2. Cost reduction
3. Maximum integration

**Notes:-** All headings and subheadings in Arial, font size 14, regular, non italic,

Rest of the text in Arial, font size 12, regular, non italic. All text justified with line spacing: 1.5. Page Size: A4 with margins 1” on all sides.

1. Literature Review

A literature review is an evaluative report of information found in the literature related to your selected area of study. The review should describe, summaries, evaluate and clarify this literature. It should give a theoretical base for the research and help you (the author) determine the nature of your research. It is a critical analysis of published sources on a particular topic. It is an assessment of the literature and provides a summary, classification, comparison and evaluation of various pieces of research. It must have connection with your SDP problem. Review should be preferably from Journal paper and may be from well-reputed conferences organized by renowned societies such as IEEE, IEE, ACM, etc.

## Steps to Writing A Literature Review

* Find a working topic:

*Look at your speciﬁc area of study. Think about what interests you, and what is fertile ground for study. Talk to your professor, brainstorm.*

* Review the literature:

*Review cutting-edge research papers relevant to your SDP area. Conducting a literature review is a means of demonstrating the author's knowledge about a particular field of study, including vocabulary, theories, key variables and phenomena, and its methods and history.*

* Focus your topic narrowly and select papers accordingly.
* Read the selected articles thoroughly and evaluate them.
* Student is required to review at least 15 to 20 research papers.
* Discuss about the potential avenues/bottlenecks after completing literature review and write your conclusive remarks.

All the references are required to be cited in literature review section like [1], [2], …*(see page 7 & 8)*

1. Methodology of SDP
   1. Theoretical Studies

Write about the theoretical studies required for your SDP.

* 1. Experimental Set Up

Describe about the experimental setup for proposal here.

* 1. Method of Analysis

Discuss the approach and method of analysis for the solution of your proposed SDP. Support your SDP with flow charts, algorithms, block diagrams, mathematical models etc.

* 1. Result Expected

Write down the expected outcome from your SDP here. Present your results in the form of charts, graphs or tables etc.

1. Utilization of SDP Results

Write about the expected utilization of result results here.

1. Work Schedule Plan

Sample of work schedule is given below.

Collection of literature Two Weeks

Study of Literature Two Weeks

Analysis of Proposed Scheme One Month

Preparation of Scheme/Model One Month

Implementation of Scheme/Model One Month

Analysis and Simulation One Month

Result Formulation Two Weeks

Final Write-up & Thesis Submission Two Weeks

6.1 Proposed Time Schedule

Sample is given below.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | Jan  06 | | Feb  06 | Mar 06 | Apr  06 | May  06 | Jun  06 | |
| Collection of Literature |  |  |  |  |  |  |  |  |
| Study of Literature |  |  |  |  |  |  |  |  |
| Analysis of Proposed Scheme |  |  |  |  |  |  |  |  |
| Preparation of Schemes / Model |  |  |  |  |  |  |  |  |
| Implementation of Schemes/Model |  |  |  |  |  |  |  |  |
| Analysis & Simulation |  |  |  |  |  |  |  |  |
| Result Formulation |  |  |  |  |  |  |  |  |
| Final Write-up & Thesis Submission |  |  |  |  |  |  |  |  |

1. Proposed project and society

Provide a clear statement that demonstrates consideration of all ethical issues which may arise and the manner in which they will be addressed. In your statement ethical issues should be defined from the perspective of societal factor.

1. Budget Description

Write about budget required for the proposed SDP here. Do mention about that how the equipment/experimental setup required will be arranged. E.g., experimental setup is present in university or some other organization’s setup will be used or funding is required for the execution of proposed SDP.

1. References

Citation of references at proper location in literature review is required. Write the references in the same order as are cited in text. Use the ***following format*** for references.

***Example Journal Paper:***

**[1] Names of authors separated by comas, “Title of research paper”, name of journal (conference/journal paper), volume, page number, year of publication.**

[2] Peter Hernon, Cheryl Metoyer-Duran, “Problem statements: An exploratory study of their function, significance, and form”, *Library & Information Science Research*, vol. 15, no. 1, pp. 71–92. Jan. 1993.

[3] Didier Le Gall, “MPEG: A video compression standard for multimedia applications,” *Communications ACM*, vol. 34, no. 4, pp. 46–58, April 1991.

***Example Conference Paper:***

1. Gulistan Raja and M. J. Mirza, “Performance comparison of advanced video coding H.264 standard with baseline H.263 and H.263+ standards,” in Proc. 4th IEEE International Symposium on Communications & Information Technologies, ISCIT 04, Sapporo, Japan, 2004, pp. 743–746.

***Example Book:***

1. Iain E.G. Richardson, *Video Codec Design*, Great Britain, John Wiley & Sons, 2003, ISBN: xx-yyyy-zzzz.

***Example Web Link:***

1. MPEG Software Simulation Group, “The MSSG homepage”, available on-line at [http://www.mpeg.org/MPEG/ MSSG](http://www.mpeg.org/MPEG/%20%20MSSG), 2004.

***Example Standard:***

1. ITU-T “Video Coding for low bit rate communication,” ITU-T Recommendation H.263; version 1, Nov 1995; version 2, Jan. 1998; version 3, Nov. 2000.
2. Undertaking

Use the following undertaking as it is.

I certify that SDP work titled “*enter title of your SDP proposal here*” is my own work. The work has not, in whole or in part, been presented elsewhere for assessment. Where material has been used from other sources it has been properly acknowledged/referred.

Signature of Student

Name of Student

Registration Number

1. Supervisor’s Comments

Take recommendation of your supervisor for your proposed SDP work here.

Signature of Supervisor

Name of Supervisor

Designation of Supervisor