

Check Sheet for PhD. Thesis Proposal and Topic Approval

1.	Name of the Major Research Area	
2.	List down the Research Gaps in Major Research Area	
3.	Write down the Research Gap Selected	
4.	Problem Statement	
5.	Aims & Objectives	
6.	Literature Review	
7.	Methodology of Research	
8.	Utilization of Research Results	
9.	Work Schedule Plan	
10.	Budget Description	
11.	References	
12.	Curriculum Vitae	
13.	Undertaking	
14.	Supervisor's Comments	
15.	Remarks: Research Monitoring Committee	

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

Research Scholar	Research Supervisor
Name:	Name:
Signature:	Signature:
Date:	Date:

PhD. Thesis Proposal

Title of PhD Thesis



Submitted By

Name of Student
Student's Registration Number

Supervisor: Name

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
FACULTY OF ENGINEERING
SIR SYED CASE INSTITUTE OF TECHNOLOGY
ISLAMABAD
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1. **Introduction of Major Research Area and a brief writeup on the area**
2. **List down the Research Gaps in Major Research Area**
3. **Write down the Research Gap Selected for PhD Research**

4. **Problem Statement**

Description of problem statement

5. **Aims & Objectives**

Write aims and objectives of PhD research thesis.

6. **Literature Review**

- Bibliography Survey of the Selected Area with a view to classify the selected area with reference to aspects addressed.
- Survey/ Review papers published in the selected area.
- Literature Review of selected papers in general and cutting edge papers in particular with reference to the followings:
 - Identification of Challenges & bottle necks
 - Identification of potential avenues for research.
 - Finally the selection of Research Topic.

Sample of Literature Review

In 2010, Lahiri R.N, Sinha A [1] presented that brain storming facts about privatization of distribution companies a one form of electricity reform. Although in every document supporting privatization claims a pre-requisite for poverty alleviation. All the world bank concessional funding has a pre-condition of such privatization before approving the loans.

7. **Methodology of Research**

- 7.1 **Theoretical Studies**

Write about the theoretical studies required and problem formulation.

- 7.2 **Experimental Set Up**

- Describe about the experimental setup.
- Laboratory facilities
- Material required if any.

- 7.3 **Method of Analysis**

- Discuss the method of analysis to be used for the proposed research.

- Software Tools required if any.
- Computer System/Any other Hardware requirements.

7.4 Result Expected

Write down the expected Results from research.

8. Utilization of Research Results

Write about the utilization/application of the results.

9. Work Schedule Plan

Sample of work schedule is given below.

- Collection of literature 1-2 months
- Literature Review 3-4 months
- Proposal writing 2 weeks
- Formulation of model, experimentation and analysis 02 years.
- Final Write-up & Thesis Submission 06 months

9.1 Proposed Time Schedule

Sample is given below. Use Microsoft project or similar tool for time schedule.

Activity	Time				
Collection of Literature	X				
Literature Review		X			
Proposal writing			X		
Formulation of model, experimentation and analysis				X	
Final Write-up & Thesis Submission					X

10. Budget Description

Budget requirements for the proposed research.

11. References

Write down the references in order of publication year with latest reference at top and oldest at the bottom. Use the *following format* for references.

Example Journal Paper

- [1] 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

- [2] 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

- [3] Iain E.G. Richardson, *Video Codec Design*, Great Britain, John Wiley & Sons, 2003, ISBN: xx-yyy-zzzz.

Example Web Link

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

Example Standard

- [5] 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.

12. Curriculum Vitae of student

Write down very briefly as per format given below:

- a) Name:
- b) Father's Name:
- c) Regd. No:
- d) Contact:
- e) Address:
- f) Phone:
- g) E-mail (s):
- h) Courses Passed:

	Subject	Exam Held in	Grade	GPA
1				
2				
3				
4				

- i) Name of Employer Organization:
- j) Name & Contact of the Reporting Officer:

Signature of Student
Name of Student
Registration Number

13. Supervisor's Comments

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

Signature of Supervisor:_____

Name of Supervisor

Designation of Supervisor

14. Remarks: Research Monitoring Committee

Name & Signatures of RMC member