Guidelines

Research Proposal

Research proposal contains:

1. FIRST PART

The first part contains the research topic, the name of the applicant, the institution of the applicant, and the year of the submission of the proposal.

1. MAIN PART

The main part contains:

* 1. CHAPTER I INTRODUCTION: Background, Formulation of the Problems, Aim and Benefit of the Research, and Research Methodology.
	2. CHAPTER II LITERATURE REVIEW
	3. CHAPTER III BASIC THEORY
	4. CHAPTER IV SCHEDULE
1. THIRD PART
2. REFERENCES
3. SIMPLE CURRICULUM VITAE

DISSERTATION RESEARCH PROPOSAL

TOPIC OF THE RESEARCH

Name of the prospective new student

Institution of the prospective new student

Submitted to

Doctoral Programme in Mathematics

Department of Mathematics
Faculty of Mathematics and Natural Sciences

Universitas Gadjah Mada

20….

CHAPTER I

INTRODUCTION

* 1. Background

The background should be written chronologically to have comprehensive information on the proposed research. Simple information from the previous research will help the prospective new student to strengthen the novelty.

* 1. Formulation of the Problems

Use declarative sentences in writing the formulation of the problems.

* 1. The Objectives (Aims) and Benefits of the Research

The aims of the research should be intended to achieve specific objectives of the research. The benefits of the research should be intended to give an explanation of the beneficiary of the research development and its applications.

* 1. Research Methodology

Research Methodology contains the flowchart and the steps to be taken in the proposed research.

CHAPTER II

LITERATURE REVIEW

The literature review contains systematic information on previous research which are related to and supports the proposed research. It is recommended to use original references (books or journals) to support the data, definitions, and properties. In referring to the appropriate reference, use the name-year in parentheses. The literature review is aimed to support the novelty of the proposed research.

CHAPTER III

BASIC THEORY

This chapter contains theories (definitions and properties) that will be used in completing the proposed research.

CHAPTER IV

SCHEDULE OF THE RESEARCH

This chapter contains information on the schedule of the research. The schedule should contain:

* + 1. Steps of the research.
		2. Detailed activities completed by the outputs/outcomes of each step of the activities. For simplicity, use a matrix or a tableau.
		3. Timeline of each activity.

REFERENCES

Behzadi, S., Muller, N.S., Plant, C., and Bohm, C., 2020, Clustering of mixed-type data considering concept hierarchies: problem specification and algorithm*, International Journal of Data Science and Analytics*, 10: 233-248.

Brauer, F. and Castillo-Chavez, C., 2001, *Mathematical Models in Population Biology and Epidemiology*, Springer-Verlag, Inc., New York.

Cheney, W., 2001, *Analysis for Applied Mathematics*, Springer, New York.

Leung, D.H. and Tang, W., 2000, Functions of Baire Class One, *http://www.arXiv. math.CA/0005013v1*, 2 May 2000, accessed in 12 November 2007.

Salmah, 2006, Aplikasi Permainan Dinamis Linear Kuadratis Sistem Deskriptor pada Interaksi Fiskal di EMU, *Prosiding Konferensi Nasional Matematika* XIII UNNES, 24 – 27 Juli 2006, 815 – 821.

Sulc, Z., and Rezankova, H., 2019, Comparison of Similarity for Categorical Data in Hierarchical Clustering, Journal of Classification Vol.36, p. 58-72.

CURICULLUM VITAE

Name of the prospective new student :

Place and date of birth :

Address :

Country :

Nationality :

Track : Algebra/Analysis/Statistics/Applied Mathematics/

 Mathematics Computation/Statistics Computation\*

Institution of the prospective new student:

Address of the institution :

Telp/Fax number :

Handphone number :

Educational Institution (Bachelor) :

Average of the GPA (B.Sc.) :

Educational Institution (Magister) :

Average of the GPA (M.Sc.) :

TOEFL Score : …… (International TOEFL/AcEPT UGM/TOEP/PLTI/IELTS/

IBT-TOEFL/ITP-TOEFL)\*

GRE Score : …… (Mathematics GRE/ General GRE/

 PAPs UGM/TPA BAPPENAS/TPDA PLTI)\*

Recommendation 1 is given by :

Institution :

Recommendation 2 is given by :

Institution :

If the prospective new student has made some discussion or contact the candidate of the supervisor or co-supervisor, please write their names:

1.
2.

Remark: \*Cross an un-appropriate information.