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STUDY GUIDE

Faculty	Engineering and Technology
Department	Electrical Engineering: Power
Course	Diploma in Engineering
Title	Project report format – EPPRJ4A
Compiled By	I.K. Kyere
Year	2023
NQF Level	6
Credits	30





FINAL PROJECT REPORT FORMAT FOR WORK PLACED BASED LEARNING (WBL)

PRELIMINARY PAGES

• Cover / Title Page

This page consists of the project title, which is stated in the upper half of the page. This is to be followed by the author's full name with the surname first and other. Note that when the surname comes first, it is separated from the other names with a comma.

The lower part of the page is to have the statement that reads: 'A project presented to the Vaal University of Technology in partial fulfilment of the requirements for the award of the diploma of Electrical Engineering. The student shall indicate at the bottom of the page the month and year the project was completed (e.g. February 2012).

Certification Page

On this page shall be the certification of the project mentor of the originality of the study as true work carried out by the student. The statements here shall read: This is to certify that this research project titled: ".....", written by (Student surname and other names) with the student number under my supervision". Followed by the supervisor's name, signature, and date.

Dedication Page

This page provides the author the opportunity to express some words of gratitude to those dear to him/her one way or the other.

· Acknowledgement Page

This page provides the author the opportunity to acknowledge the help and contribution of different people who directly or otherwise contributed to the success of the work.

Abstract Page

This page consists of a synopsis of the entire work. It states briefly the problems of investigation, the purpose of the study, how it was carried out, major findings, and recommendations. This is to be done in about 360 words (this could be done with the aid of computer word count).

Learner Guide: Page 2 of 5

Table of Content

This page consists of the list of chapters and sub-units with their respective page numbers as contained in the main body of the work. The pages before the main body of the work are numbered in roman numerals, while other pages are numbered in Arabic numerals. Other parts of the table of contents are:

- List of Tables to be numbered 1,2,3, 4......N
- List of Figures to be numbered I, II, IIIN

CHAPTER ONE: INTRODUCTION

1.1 Background to the Project

Students are expected to describe in general terms the larger area of the problem being investigated. This will serve as the basis for introducing the problem. It will also be a way to establish a relationship that exists between the problem being investigated and the larger area of concern to people and organizations.

1.2 Statement of the Problem

The research study is to provide answers /solutions to identified problems. Students should be able to state the problem clearly and convincingly and justify/show the necessity to find a solution to it, as well as the implication of such a problem. If possible, this problem could be linked to a given theory or fact.

1.3 Main Objective and specific Objectives of the Project

The author is expected to narrow the problem or state the problem in specific terms. The purpose of the study is to find a solution to the problem or find relationships between the problem and other problems by breaking the problem into its component parts through exploration or analysis. Three (3) to Four (4) specific statements (objectives) of what the project intends to do to achieve the main objective could be stated.

1.4 Significance of the Study

This section provides justification for the study and what will be contributed to knowledge by the study if successfully carried out. It allows the author to justify his/her attempt to solve the problem.

1.5 Scope of the Study

Delimitation or scope of the study enables the researcher to circumscribe his/her research within a manageable limit. It provides the researcher the opportunity to explain the boundaries of the study and describe the aspect of a general /wide problem area covered as well as what aspects will not be covered.

Learner Guide: Page 3 of 8

CHAPTER TWO: LITERATURE REVIEW

2.1 Introduction

This requires a brief outline of the works in this chapter

2.2 Conceptual framework of the project

Relevant definitions, meanings, explanations, and clarifications to the concepts being explored in the study should be briefly discussed and linked to the study to provide the right framework for the project.

2.3 Theoretical framework of the project

Relevant theories to the problem being investigated in the study should be briefly discussed and linked to the study to provide the right framework for the study i.e. theories on which the study is anchored. It also, provides an avenue to review relevant and known literature on the problem being investigated.

CHAPTER THREE: PROJECT METHODOLOGY

3.1 Introduction

This requires a brief outline of the works in this chapter

3.2 Research Design

This has to do with the blueprint of the project that points the way to what should be expected. It shows the project design is adopted for the study and why.

3.3 Method of Data Analysis

The method of data analysis should consist of the basic elements of data preparation, tabulation, and analyses. It should contain the breakdown and ordering of the quantitative information gathered through the research.

3.4 Limitation of the methodology

Relevant observed extraneous circumstances or imperfections encountered in sampling from the design etc should be stated as limitations to the methodology

3.5 Presentation and Analysis of Data

Data collected are to be presented and analyzed. Students will have to choose the methods that best suites the data collected. Data could be presented using tables, pie charts, bar charts, histograms, etc. Data presented should be accompanied by the interpretation of the associations and relationships among the data groups with the appropriate implication to the study or the unit of study. The summary of the interpretation should provide answers to the research questions.

Learner Guide: Page 4 of 8



3.6 Discussion of Finding

Discuss your findings and identify the implications of the study

CHAPTER FOUR: CONCLUSION AND RECOMMENDATIONS

4.1 Conclusions

Conclusions should be drawn from the findings

4.2 Recommendations

Recommendations should also be based on the

conclusions

Bibliography (Harvard reference style) Appendix



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DEPARTMENT OF ELECTRICAL (POWER) ENGINEERING

STUDENT NO.:

FINAL ASSESSMENT OF GA

STUDENT NAME:

GRADUATE ATTRIBUTE 12: WORKPLACE PRACTICES SUBJECT: WORKPLACE-BASED LEARNING

ATE:	
	monstrate an understanding of workplace practices to solve engineering academic learning achieved.
	ation and experiment should be appropriate to the discipline. An investigation or d be typical of those in which the graduate would participate in an employment duation.
Where is the outcom assessed?	In the final project report.
How is this outcom assessed?	Students are required to produce a report that is verified by a mentor illustrating the ability to develop, build and configure power engineering principles, in which workplace-based learning takes place.
What is satisfactor performance?	within the report, it is essential that the student complies with conducting a proper investigation and experiment to uncover the required information. The student should reflect the following in the report: define the scope, methodology, and literature review, analyze the results, draw conclusions, provide possible solutions (outcome if experimental), and report on the work in writing keeping in mind to use appropriate methods/tools. Include a portion of

data/data analysis in the literature review.

This graduate attribute is assessed by a comprehensive four (4) level rubric where a minimum set of outcomes must be met to prove competency. Assessment is done as Poor - student does not comply at all, Borderline - may comply with corrections, Competent - min to moderate compliance is met, exceed expectation – max compliance is met. To comply, all_the criteria must be met with minimum compliance using the assessment rubric. Analysis of the need for the experiment is performed. Students understand the purpose of

experimental work. Students can plan for effective projects and 1. Select appropriate equipment/software for use in the investigation/experimental work. Able to identify appropriate tools to conduct investigations with few mistakes. 2. Able to connect and conduct an experiment using laboratory leads and equipment without or with very minimal assistance. 3. Information is analyzed, and derived from available data. Conducts computations/analyses using collected data with minor errors. Alternatively, reasonably correlates experimental results to known theoretical values and attempts to account for measurement errors and parameters that affect the outcome of results. 4. Conclusions are drawn from an analysis of all available evidence. The conclusion is presented as at least one full paragraph based on findings from the investigation/ experiment. Is logical has flow well and leads to future work. 5. The purpose, process and outcomes of the investigation are recorded in a technical report. The report is reasonably well documented. May lack some minor aspects. Most of the characteristics of desirable features are included. Material is binded.

What is the consequence of unsatisfactory performance?

Meeting this attribute is essential in passing Workplace Based Learning. Non-compliance means failure even if the combined mark for all the summative assessments results in a pass. Students who fail to meet one criterion or more criteria will be given a second chance with deadlines to comply with all the criteria for the GA. If after the second chance, the student does not comply with all the criteria, he/she will fail the module, and the results will in this case reflect 'Fail to meet GA 12'.

GRADUATE ATTRIBUTE 12: WORKPLACE PRACTICES

RUBRICS FOR PROJECT REPORT

ECSA	Description		Satisfactory to Excellent				
Graduate		comply					
Attribute		(1-4)	(5-7)	(8-10)		Multiplying factor	Max mark
	Ch1 How does the candidate logically lead the reader toward the problem to be investigated? _ Is the problem clearly stated or defined giving the research a central structure? _					X1.75	
	Ch2 Does the candidate demonstrate a clear understanding of the issues that are at stake? _ Does he/she know what others have written about this area and field of investigation? (Literature review) _ Does he/she know what sort of conclusions they have come to? _ Does he/she know what methods they have used to come to those conclusions?_					X1.75	
	SUB-TOTAL MARKS	B-TOTAL MARKS Pass or Fail (tick)				/35	
	Ch3 Does the candidate give a very detailed account of the exact experimental conditions, components, and equipment used to do the experimental research? _ Would others be able to follow the account and get the same results? _ Is the application of the process (method) of research to this research project convincingly described, i.e. does the candidate understand and effectively apply the method? _					X1.5	
	Ch4 Are all the results obtained interpreted by the candidate? _ How accurate are the results? _ How much effort was made to validate the accuracy of the results? _ Does an objective reading of these results lead to potential answers to the research question? _					X1.5	

th re d d th D o C c c c	ne implicates ults? emonstrate results loes the of research ogical Dotal andidate ontrol of rocess convincing	Does the candidate tions of the interpretations of the interpretate what the bearing have on the field of candidate suggest for other researches evelopment: I demonstrate that the "rhetoric of researches making an argument of the structure of	etation of the candidate ags are that if inquiry? _ urther topics ers? _ Does the he/she has earch" or the gument and results? _					X1.5		
		SUB-TOT	AL MARKS	Pass	or Fai	il (tic	k)			/45
q	uality [·] c	rt structured and pronsistent with lournal articles?	resented in a best-practice					X1.2		
Ä	rofession	presentation ally laid out? lides and use of	clear and					X0.8		
	SUB-TOTAL MARKS			Pass or Fail (tick)						/20
OVERALL TO Note: Any fa 45% if the over	ilure of a	a GA caps the ove irk is equal to or (rall mark to greater than	0/100 1					1	
0070			NA	ME		SIG	NATURE		DATE	
GA12	YES									
Competent		WIL CO-ORDINAT	FOR							
	NO	MODERATOR								