



UNIVERSITY OF SOUTHERN MINDANAO

Course Syllabus for Methods of Research



Course Number

CpE 16

Rev. No.

2

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EFFECTIVE DATE	REV. NO.	REVISION TYPE	CHANGE DESCRIPTION	PAGE AFFECTED	ORIGINATOR
January 20, 2025	2	Partial	Revised updating the course number, course outcomes, pre-requisite courses, course contents, and references	ALL	Melecio A. Cordero, Jr.
February 12, 2024	1	Partial	Revised updating the course alignment to program outcomes, teaching and learning activities, learning materials and assessment tasks	ALL	Jeannalen P. Lunod
January 31, 2022	Ø	New	Newly established in accordance to the Quality Management System Requirements	ALL	Melecio A. Cordero, Jr.

ELECTRONICALLY
RELEASED

2025.08.29

Author:	Reviewer:	Verifier:	Validator:	Final Approver:	DCC USE ONLY
 MELECIO A. CORDERO, JR. Faculty	 SHYRILL D. OGO Subject Expert	 FLOREEY MAE F. PASCUA Department Chairperson	 MARICEL G. DAYADAY Dean	 MARCOS F. MONDERIN Vice President for Academic Affairs	DOCUMENT CONTROL INDICATOR
Date: 2025-01-02	Date: 2025-01-07	Date: 2025-01-10	Date: 2025-01-14	Date: 2025-01-16	MASTER COPY 16





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INSTITUTIONAL POLICIES	
Vision	Quality and relevant education for its clientele to be globally competitive, culture sensitive and morally responsive human resources for sustainable development.
Mission	Help accelerate socio-economic development ^{M2} , promote harmony among the diverse cultures ^{M2} and improve quality of life ^{M3} through instruction, research, extension and resource generation in Southern Philippines.
Core Values	G -Goodness, R -Responsiveness, E -Excellence, A -Assertion of Right and T -Truth
USM Quality Policy Statement	<p>The University of Southern Mindanao, as a premier university, is committed to provide quality instruction, research development and extension services and resource generation that exceed stakeholders' expectations through the management of continual improvement efforts on the following initiatives.</p> <ol style="list-style-type: none">1. Establish key result areas and performance indicators across all mandated functions;2. Implement quality educational programs;3. Guarantee competent educational service providers;4. Spearhead need-based research outputs for commercialization, publication, patenting, and develop technologies for food security, climate change mitigation and improvement in the quality of life;5. Facilitate transfer of technologies generated from research to the community for sustainable development;6. Strengthen relationship with stakeholders;7. Sustain good governance and culture, sensitivity; and8. Comply with customer, regulatory and statutory requirements.
Goals of the College	The USM College of Engineering and Computing aims to provide quality education on the various fields of engineering and related technologies; meet the community's trained manpower in engineering and information technology in various technical and managerial capacities; and conduct researches and extension activities geared towards the amelioration of technological, environmental and human resource problems in the region and the country at large.
Department Objectives	The program aims to prepare the students for professional career who will effectively and efficiently meet the scientific, technological and various needs of business, industries and communities in the global economy. Aside from their professional knowledge and skills, the graduates must also possess strong foundation in the physical and basic engineering sciences as well as in human relations to enable them to meet the challenges being brought about by the rapid technological developments.

PROGRAM INFORMATION				
Degree Program	BS Computer Engineering	CHED CMO Reference	87 S2017	BOR Approval
				BOR Res. 118 s. 2018

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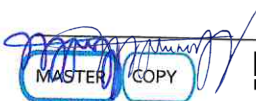




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COURSE DETAILS					
Course Title	Methods of Research				
Course Number	CpE 16		Curriculum Component	C	
Credit (--Unit)	2-0-2	LECTURE(Unit-Hours)	2-2	LABORATORY(Unit-Hours)	0-0
Prerequisites	EngMath 05 -Engineering Data Analysis GE 01 - Understanding the self CpE 09 - Logic Circuits and Design	Co-requisites	None	Year Level/Semester Offered	3 rd Year - Second Semester
Course Description	This course introduces students to the fundamental principles and practices of research. It covers essential topics such as research design, data collection techniques, data analysis, and interpretation. Students will learn to formulate research questions, review relevant literature, and apply appropriate methodologies to address real-world problems. Emphasis is placed on ethical considerations, critical thinking, and developing skills to evaluate and communicate research findings effectively. By the end of the course, students will be prepared to design and conduct their own research projects.				
Faculty in charge					
Consultation Hours					
			Contact Information		

PROGRAM EDUCATIONAL OBJECTIVES (PEO)				MISSION		
In 3-5 years, the BSCpE graduates of USM shall:				M1	M2	M3
PEO 1	Provide leadership in the field of computer engineering in various development programs both public and private			✓		
PEO 2	Equip with technical, conceptual and human resource skills			✓		✓
PEO 3	Pursue entrepreneurial activities			✓		✓
PEO 4	Able to adapt to diverse culture				✓	
PEO 5	Pursue advanced studies in emerging related fields				✓	✓
PEO 6	Be a creative, innovative and responsible computer engineer adhering, but not limited to, professional, moral and legal standards			✓	✓	✓





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PROGRAM OUTCOMES (PO)

Upon graduation, the University of Southern Mindanao students must be able to:

	PEO1	PEO2	PEO3	PEO4	PEO5	PEO6
a) understand at least one specialized field of Computer Engineering practice	✓	✓			✓	✓
b) communicate effectively		✓			✓	
c) function on multidisciplinary teams			✓	✓		
d) apply professional and ethical responsibility	✓	✓			✓	
e) apply knowledge of contemporary issues		✓				✓
f) design and conduct experiments, as well as to analyze and interpret data	✓	✓				
g) apply knowledge of mathematics and science to solve engineering problems	✓	✓	✓			
h) design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, in accordance with standards	✓	✓				
i) identify, formulate, and solve engineering problems		✓				
j) recognize the need for, and an ability to engage in life-long learning					✓	
k) use techniques, skills, and modern engineering tools necessary for engineering practice		✓				
l) apply knowledge of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments	✓		✓	✓		✓
m) identify the impact of engineering solutions in a global, economic, environmental, and societal context	✓	✓	✓			✓

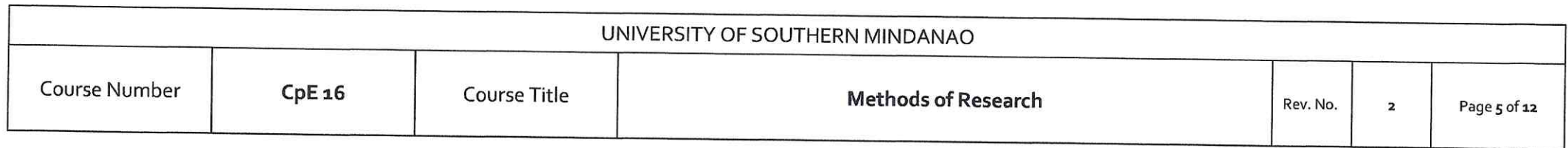
COURSE OUTCOMES (CO)

Upon passing this course, the students must be able to:

Course Alignment to Program Outcomes

	POa	POb	POc	POd	POe	POf	POg	POh	POi	POj	POk	POl	POm
CO1	Show understanding on underlying concepts, principles, and ethical considerations in research			E						E			
CO2	Equip students with the ability to formulate clear and focused research questions, design appropriate methodologies, and collect reliable data to address specific academic or practical problems.				E				E				





* **Level** (follow the legend used in the most relevant PSG/CMO)

[D] = Demonstrative. This demonstrates the student's attainment of the Program Outcome (PO)

Intended Learning Outcomes (ILO) <i>By the end of the learning experience*, students must be able to:</i>	Aligned to CO:	Time Frame (Week)	Course Content (Topics)	Teaching & Learning Activities (TLA)		Learning Materials	Assessment Tasks (AT)	Suggested Readings
				Teaching Activities	Learning Activities			
1.1 restate the classroom and university policies 1.2 recall the overview of the course and the grading system		1	<ul style="list-style-type: none"> Classroom and University Policies Course Overview and Grading System 	<ul style="list-style-type: none"> Orientation 	<ul style="list-style-type: none"> Reading 	<ul style="list-style-type: none"> USM Code Student Manual Course Syllabus 		[8] [9] pp. 12-13
2.1 define research and enumerate its values and characteristics 2.2 identify the types of research sources of problems 2.3 able to identify and understand the research problem	CO1	2	Basic Concepts of Research <ul style="list-style-type: none"> Definition of Research Characteristics of Research Values of Research Types of Research Research Process Research problem Sources of problems Characteristics of a good problem 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[4] pp. 60-72 [10] pp 1- 7
3.1 define plagiarism 3.2 able to devise a research title 3.3 identify the parts of the	CO1	3	<ul style="list-style-type: none"> Definition of Plagiarism Plagiarism Detection Tools Devising a title of the research 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture 	<ul style="list-style-type: none"> Assignment 	[4] pp. 2-21

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research report 3.4 able to understand and illustrate the theoretical and conceptual frameworks			report or investigations ○ Parts of the research report ○ Statement of the problem ○ Theoretical and Conceptual Frameworks			slides		
4.1 Define and discuss the importance of reviews by exploring RRLs 4.2 able to identify the sources of materials for literature review	CO1	4	Reviewing the Literature ○ Purpose of the Review ○ Meaning of Literature ○ Types of Related Literature and Studies ○ Sources of Materials for Literature Review	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[3] pp. 39-56 [11] pp 1 - 5
5.1 describe and understand the different methods of research 5.2 able to describe the different qualitative methods 5.3 able to describe the different quantitative methods	CO1	5	Methods and Procedures ○ Qualitative Methods of Research: 1. Historical Method 2. Ethnographic Method 3. Phenomenological Method 4. Content Analysis Method ○ Quantitative Method of Research Descriptive Methods: 1. Case Studies 2. Surveys 3. Developmental Studies 4. Assessment or Evaluation Method 5. Comparative Studies 6. Correlational Studies 7. Follow up Studies 8. Trend and Projection Studies 9. Ex Post Facto Research	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp. 38-56 [12] {13}





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			10. Participatory Research 11. Documentary Research					
6.1 identify and understand the different experimental methods of research	CO1, CO2	6	<ul style="list-style-type: none"> Experimental Method of Research <ol style="list-style-type: none"> Classification of Experiments True Experiments Quasi Experimental Research Non-experimental design 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[3] pp. 35-36 [4] p. 26
7.1 Understand the concepts of sampling design 7.2 Identify and apply the sampling techniques in determining the sample size	CO2, CO3	7	Sampling Design <ul style="list-style-type: none"> Population Sampling Purpose of Sampling Sampling Techniques Types of Sampling Size of the Sample 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[2] pp. 70 - 81 [3] pp. 228-266 [15]
8.1 Identify the kinds of data and its sources 8.2 Identify and understand the criteria of research tools	CO2, CO3	8	Sources Of Data and Research Tools <ul style="list-style-type: none"> Kinds of Data in terms of Sources General Criteria for Research Tool <ol style="list-style-type: none"> Validity Reliability Sensitivity Specificity Positive Predictive Appropriateness Objectivity 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp. 108 - 113 [3] pp. 22-35, 73-75 [4] pp. 186-214 [5] pp. 18-36
All ILOs covered in Midterm		9	MIDTERM EXAMINATION					
10.1 identify and describe the different tools for research	CO2, CO3	10	Tools for Research Techniques <ul style="list-style-type: none"> Used in in generating data 	<ul style="list-style-type: none"> Lecture Interactive 	<ul style="list-style-type: none"> Reading Group 	<ul style="list-style-type: none"> Textbook (E-book) 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp. 113 - 123

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techniques			<ul style="list-style-type: none"> Questionnaires Research Interview Observation Method Measurement or Objective Method Other Measuring Techniques 	Discussion	Exercises	<ul style="list-style-type: none"> Lecture slides 		[4] pp. 263-295
11.1 identify the describe variables for correlational studies 11.2 formulate hypothesis and assumptions	CO ₂ , CO ₃	11	Variables <ul style="list-style-type: none"> Classification of Variables Variables in Correlational Studies Formulating Hypothesis Characteristics of hypothesis Classification of hypothesis Sources of hypothesis Hypothesis and Assumptions 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp. 127-128 [4] pp. 89-105 [5] pp. 12-17
12.1 describe the descriptive and inferential statistics 12.2 understand and use measures of central tendencies	CO ₂ , CO ₃	12	Statistical Tools for Data analysis <ul style="list-style-type: none"> Kinds of Statistics <ol style="list-style-type: none"> Descriptive Inferential Descriptive Statistics Measures of Central Tendencies Weighted Mean 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[2] pp. 103-108 [4] pp. 89-105
13.1 Describe and use different measures of dispersion	CO ₂ , CO ₃	13	Measures of Dispersion <ul style="list-style-type: none"> Percentage and Frequency Distribution Ratios and Ranking Measures of Non-Central Location Measures of Symmetry and/or Asymmetry Measures of Peakedness or Flatness 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[2] pp. 111-114 [4] pp. 89-105





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14.1 describe and use parametric tests for the analysis of differences	CO ₂ , CO ₃	14	Types of Inferential Statistics <ul style="list-style-type: none"> Parametric Test <ol style="list-style-type: none"> Analysis of Differences 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp. 157-158 [4] pp. 111-141 [5] pp. 3-8
15.1 Describe and use different analysis of relationships	CO ₂ , CO ₃	15	Continuation of Parametric tests <ol style="list-style-type: none"> Analysis of Relationships <ol style="list-style-type: none"> Coefficient of Variance Proportion Overlap 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp 165 - 175 [4] pp. 111-141 [5] pp. 3-8
16.1 Describe and use non-parametric tests: Chi-square test	CO ₂ , CO ₃	16	Non-parametric Tests <ul style="list-style-type: none"> Analysis of Differences <ol style="list-style-type: none"> Chi-square test 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp 178 [4] pp. 111-141 [6] pp. 3-8 [14]
17.1 Describe and use Friedman's ANOVA and z-test	CO ₂ , CO ₃	17	Continuation of Non-parametric tests <ol style="list-style-type: none"> Friedman's Analysis of Variance z-tests 	<ul style="list-style-type: none"> Lecture Interactive Discussion 	<ul style="list-style-type: none"> Reading Group Exercises 	<ul style="list-style-type: none"> Textbook (E-book) Lecture slides 	<ul style="list-style-type: none"> Quiz Assignment 	[1] pp 183 - 185 [4] pp. 186-210 [5] pp. 219-241 [6] pp. 18-36 [14]
All ILOs covered in the Course		18	FINAL EXAMINATION					

* any interaction, course, program, or other experience in which learning takes place (<https://www.edglossary.org/learning-experience/>).

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Textbook/References

- [1] Ariola, M.M. (2006). Principles and Methods of Research, 1st Edition, Rex Book Store
- [2] Adanza E.G. et al. (2009). Methods of Research: A Primer, 1st Edition, Rex Book Store
- [3] Calmorin, L. (2010). Research and Statistics with Computer, National Book Store, Mandaluyong City, Metro Manila
- [4] Calmorin, L. and Calmorin, M. Research Methods and Research Writing, 2nd Edition
- [5] Cresswell, J. W. (2013). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. SAGE Publications, INC. ISBN:1452226091, 9781452226095
- [6] Fraenkel, J. and Wallen, N. (2013) How to Design and Evaluate Research in Education 8th Edition
- [7] Tagaro, C.A. and Tagaro, A.T. (2015). Statistics Made Easy 22nd Edition
- [8] Student Manual
- [9] USM Code

Internet References:

- [10] https://elearning.centre-univ-mila.dz/a2024/pluginfile.php/99753/mod_resource/content/1/Lesson%20One%20%20Basic%20Concepts%20of%20Research%20%283%29.pdf Retrieved on December 26, 2024
- [11] <https://thesisbook.readthedocs.io/en/latest/Chapter%2011.html> Retrieved on January 10, 2025
- [12] <https://www.omniconvert.com/blog/qualitative-research-definition-methodology-limitation-examples/> Retrieved on January 5, 2025
- [13] https://libguides.uta.edu/quantitative_and_qualitative_research/quant Retrieved on December 27, 2024
- [14] <https://www.statisticshowto.com/probability-and-statistics/statistics-definitions/parametric-and-non-parametric-data/> retrieved on December 28, 2024
- [15] <https://www.qualtrics.com/en-au/experience-management/research/sampling-methods/> Retrieved on January 5, 2025

Life-long Learning Opportunity

The skills and knowledge gained in the Methods of Research course empower learners to become critical thinkers and effective problem-solvers throughout their lives. By understanding how to design, conduct, and evaluate research, students can adapt to new challenges, make informed decisions, and contribute meaningfully to their personal, professional, and community endeavors. These abilities support a commitment to continuous learning and innovation in an ever-evolving world.

Course Evaluation

Course Outcomes (CO)	Assessment Task Addressing CO	Weight (%)	Satisfactory Rating	Target Standard
CO1 Show understanding on underlying concepts, principles, and ethical considerations in research	Exam	40	75	60% of the class obtained satisfactory rating
	Quiz	30		
	Assignment	20		



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CO3 Equip students with the ability to formulate clear and focused research questions, design appropriate methodologies, and collect reliable data to address specific academic or practical problems.	Attendance	10	75	60% of the class obtained satisfactory rating
	Exam	40		
	Quiz	30		
	Assignment	20		
	Attendance	10		
CO4 Enable students to utilize qualitative and quantitative tools for analyzing data and interpreting findings in a structured and meaningful way.	Exam	40	75	60% of the class obtained satisfactory rating
	Quiz	30		
	Assignment	20		
	Attendance	10		

Grading System
MIDTERM/FINAL TERM GRADE Exam - 40% Quizzes - 30% Project/Assignments - 20% Attendance - 10% FINAL GRADE = 50% Midterm + 50% Final term PASSING GRADE: 75

Classroom Policies
CLASS POLICIES <ul style="list-style-type: none">• Attendance is counted from the first regular class meeting.• Student must wear proper uniform while attending classes.• Cheating is strictly prohibited. Any form of dishonesty shall be dealt with accordingly. Honesty is called for at all times.• Base-40 grading policy should be observed.• Cellphones must be put into silent mode so as not to distract the class

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POLICY ON DISHONEST ACADEMIC PRACTICE

The University of Southern Mindanao does not tolerate dishonest academic practice. There are many forms of dishonesty in academic practice. Some are intentional, but some occur unintentionally due to lack of knowledge and understanding of what is meant by them. In all cases, dishonest academic practice is a serious matter, because it undermines the respect and trust which people view as academic endeavor and achievement.

Among others, dishonest practice includes:

- Plagiarism. Plagiarism is using others' ideas and words without clearly acknowledging the source of that information. To avoid plagiarism, you must give credit whenever you use, another person's idea, opinion, or theory; any facts, statistics, graph, drawings – any pieces of information – that are not common knowledge; quotations of another person's actual spoken or written words; or paraphrase of another person's spoken or written words (<https://www.ox.ac.uk/students/academic/guidance/skills/plagiarism>).
- Collusion. The submission of work done in whole or in part with another person or persons but submitted as if it had been completed by the named author alone (or joint authors if a group item of work).
- Ghost writing. The use of another person (with or without any form of payment) to prepare all or part of an item of work submitted by the group for assessment.
- Fabrication of data. The presentation of data, which are not obtained through experimentation or research.

Plagiarism can be avoided by familiarizing yourself with the material referred to in Point 1. Plagiarism can be readily detected, and the penalties are severe. It is your responsibility to ensure that you know how to avoid it.





UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines

MONITORING OF DELIVERY OF INSTRUCTION

Course Title	Methods of Research			Semester/Academic Year	
Course Number	CpE 16	Faculty in charge		Room Number	Day/Time

Time Frame	Topics	CO Addressed	Target week/date	Delivery monitoring (Actual date)	Remarks
Week 1	Class Orientation				
Week 2	Basic Concepts of Research	CO1			
Week 3	Cont.: Basic Concepts of Research	CO1			
Week 4	Reviewing the Literature	CO1			
Week 5	Methods and Procedures: <ul style="list-style-type: none">Qualitative Method of ResearchQuantitative Method of Research	CO1			
Week 6	Cont.: Methods and Procedures <ul style="list-style-type: none">Experimental Method of Research	CO1, CO2			
Week 7	Sampling Design	CO2, CO3			
Week 8	Sources Of Data and Research Tools	CO2, CO3			
Week 9	MIDTERM EXAMINATION				
Week 10	Tools for Research Techniques	CO2, CO3			
Week 11	Variables	CO2, CO3			
Week 12	Statistical Tools for Data analysis	CO2, CO3			



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Kabacan, Cotabato
Philippines

MONITORING OF DELIVERY OF INSTRUCTION

Week 13	Measures of Dispersion	CO ₂ , CO ₃			
Week 14	Types of Inferential Statistics <ul style="list-style-type: none">• Parametric Test	CO ₂ , CO ₃			
Week 15	Continuation of Parametric tests	CO ₂ , CO ₃			
Week 16	Non-parametric Tests	CO ₂ , CO ₃			
Week 17	Continuation of Non-parametric tests	CO ₂ , CO ₃			
Week 18	FINAL EXAM				