



Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
Isulan, Sultan Kudarat
College of Computer Studies
S.Y. 2024-2025



UNIVERSITY VISION

A trailblazer in arts, science and technology in the region.

UNIVERSITY MISSION

The University shall primarily provide advance instruction and professional training in science and technology, agriculture, fisheries, education and other related field of study. It shall undertake research and extension services, and provide progressive leadership in its area of specialization.

UNIVERSITY GOAL

To produce graduates with excellence and dignity in arts, science and technology.

UNIVERSITY OBJECTIVES

- a. Enhance competency development, commitment, professionalism, unity and true spirit of service for public accountability, transparency and delivery of quality services;
- b. Provide relevant programs and professional trainings that will respond to the development needs of the region;
- c. Strengthen local and international collaborations and partnerships for borderless programs;
- d. Develop a research culture among faculty and students;
- e. Develop and promote environmentally-sound and market-driven knowledge and technologies at par with international standards;
- f. Promote research-based information and technologies for sustainable development;
- g. Enhance resource generation and mobilization to sustain financial viability of the university.

Program Objectives and its relationship to University Objectives:

PROGRAM OBJECTIVES (PO)	UNIVERSITY OBJECTIVES						
	A	B	C	D	E	F	G
A graduate of BS in Computer Science can:							
1. Design and implement effectively the innovative computing researches	/	/	/	/	/	/	/
2. Apply proficiently the algorithmic theories and related computational system in conducting researches	/	/	/	/	/	/	/
3. Address societal problems through producing sustainable research outputs	/	/	/	/	/	/	/
4. Demonstrate the code of conduct as well as the social and legal aspect of computer science.	/	/	/	/	/	/	/

5. Course Description:

1. Course Code	: CS 400
2. Course Title	: Thesis Writing 1
3. Prerequisite	:
4. Credits	: 3 UNITS

Thesis Writing 2 is the culmination of the undergraduate research process for BS Computer Science students. This course focuses on the final implementation, documentation, and oral defense of a research project that addresses real-world problems through computing solutions. It emphasizes critical analysis, ethical research practices, and professional writing. Students are expected to demonstrate mastery of algorithmic and computational theories in developing innovative, sustainable, and socially relevant outputs. The course also fosters teamwork, accountability, and communication skills essential for professional and academic advancement. Successful completion of the course signifies readiness to contribute to the evolving field of computer science through research-based practices.

6. Course Learning Outcomes and Relationships to Program Objectives

Course Learning Outcomes	Program Objectives				
At the end of the semester, the students can:	a	b	c	d	e
1. Produce a complete and well-defended undergraduate thesis that demonstrates innovative and relevant computing research aligned with regional and global development needs.	/	/	/	/	/
2. Apply appropriate algorithmic and computational methods to analyze and solve real-world problems in the context of their research study.	/	/	/	/	/
3. Demonstrate ethical responsibility, professionalism, and social awareness in the conduct and dissemination of their research outputs.	/	/	/	/	/
4. Communicate research findings effectively through oral presentations and written documentation, following academic standards and conventions.	/	/	/	/	/

5. Collaborate efficiently within a research team while exhibiting accountability, transparency, and a commitment to quality and service.	/	/	/	/	/
6. Integrate sustainable and environmentally-sound practices in the development of research-based solutions aligned with national and international priorities.	/	/	/	/	/

7. Course Content

Course Objectives, Topics, Time Allotment	Desired Student Learning Outcomes	Outcomes-Based Assessment (OBA) Activities	Evidence of Outcomes	Course Learning Outcomes	Program Objectives	Values Integration
1. Topic: SKSU VMGO, Classroom Policies, Course Overview, Course Requirements, Grading System (2 hour)						
Discuss the VMGO of the university, classroom policies, scope of the course, course requirements and grading system	Student can be aware of and appreciate of the university's VMGO, classroom policies, course overview, requirements and grading system.	Individual participation in class discussion and group presentation	Group and individual discussions	a		Value of appreciation
2. Topic: Thesis Guidelines and Research Ethics (4 hours)						
Research timeline, formatting, plagiarism policy, ethical considerations	Understand and apply ethical practices and guidelines in thesis writing	Group discussion, Q&A, critique of a sample unethical scenario	Written summary, participation in ethical case discussion	b, c	1, 4	Integrity, responsibility
3. Topic: Finalizing the Research Framework and Methodology (6 hours)						
Conceptual framework, research design, tools, data gathering methods	Apply appropriate methodologies to a research problem and finalize research framework	Consultation and peer review of framework and method	Updated Chapter 3 (Methodology) draft	a, b	1, 2	Diligence, critical thinking
4. Topic: Research Implementation and System/Prototype Development (12 hours)						
Coding, testing, debugging, documentation	Develop and implement a functional system or prototype based on the approved methodology	Progress tracking, coding exercises, development logs	Working prototype or system; screenshots; GitHub repo	b, c	1, 2, 3	Innovation, accountability
5. Topic: Data Analysis and Results Presentation (6 hours)						
Data coding, statistical analysis, interpreting results	Analyze data effectively and present results clearly	Data processing exercises, interpretation workshop	Draft of Chapter 4 (Results and Discussion)	a, b	2, 3	Analytical thinking

6. Topic: Thesis Writing and Editing: Chapters 4 and 5 (6 hours)						
Results and Discussion, Summary, Conclusions and Recommendations	Finalize written thesis output aligned with standards	Editing workshops, peer review, final draft preparation	Final Chapters 4 and 5	a, d	1, 3, 4	Precision, perseverance
7. Topic: Preparation for Oral Defense (6 hours)						
Defense format, presentation tools, Q&A preparation	Deliver a professional and confident research presentation	Mock defense, PowerPoint critique, Q&A simulations	Defense slides, presentation script	c, d	1, 4	Confidence, professionalism
8. Topic: Thesis Manuscript Finalization and Binding Requirements (4 hours)						
Formatting standards, printing, submission process	Finalize and submit the complete manuscript according to university guidelines	Final manuscript submission checklist	Printed/bound thesis manuscript	a, d	1, 3, 4	Excellence, commitment
9. Topic: Research Reflection and Documentation (2 hours)						
Research journey reflection, personal growth, team dynamics	Reflect on the thesis experience and evaluate one's role in the process	Reflective essay, group discussion	Submitted reflection paper	d	4	Self-awareness, gratitude
Contact Hours : 54 Hours						

8. Course Evaluation

Classroom Policies:

1. *Attendance and Active Participation.* Consistent class attendance and active engagement in consultations, peer reviews, and workshops.
2. *Progress Reports and Consultations.* Regular updates and documentation of thesis progress submitted to the thesis adviser. At least four documented consultations with adviser/panel.
3. *Drafts of Thesis Manuscript.* Submission of revised chapters (3 to 5) for checking and feedback. All drafts must follow the prescribed university format.
4. *System or Prototype Implementation.* A functional system or prototype aligned with the research problem and objectives. Deployment and testing documentation must be submitted.
5. *Final Thesis Manuscript.* Submission of the complete and properly formatted thesis manuscript for final checking. Plagiarism check results (with acceptable similarity index) must be attached.
6. *Research Presentation (Oral Defense).* Preparation and delivery of a research defense presentation in front of a panel. Must include a PowerPoint, question-and-answer session, and rubric-based evaluation.
7. *Final Printed and Bound Thesis.* Submission of the final bound thesis (following university printing guidelines) by the deadline. Must include certificates, approval sheets, and necessary appendices.
8. *Research Reflection Paper.* A short essay (500–700 words) reflecting on the student's research experience, team collaboration, and lessons learned.

Course Requirements:**Grading System:**

Course Requirement	Percentage (%)
Attendance, Participation, and Consultations	10%
Research Documentation and Manuscript Drafts	20%
System/Prototype Development	20%
Final Thesis Manuscript	20%
Oral Defense (Presentation and Q&A)	25%
Reflection Paper and Compliance Documents	5%

References:*Primary References*

1. **Santos, R.A.** (2020). *Practical Guide to Thesis Writing*. Manila: Mindshapers Co., Inc.
2. **Creswell, J.W.** (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed.). SAGE Publications.
3. **Turabian, K.L.** (2018). *A Manual for Writers of Research Papers, Theses, and Dissertations* (9th ed.). University of Chicago Press.
4. **APA Publication Manual** (7th ed.). (2020). *Publication Manual of the American Psychological Association*. American Psychological Association.

Supplementary References

1. **IEEE Editorial Style Manual.** (2023). *IEEE Standards and Citation Guidelines*. https://www.ieee.org/documents/style_manual.pdf
2. **Zobel, J.** (2014). *Writing for Computer Science* (3rd ed.). Springer.
3. **Silberschatz, A., Galvin, P.B., & Gagne, G.** (2018). *Operating System Concepts* (10th ed.). Wiley. (*for implementation reference*)
4. **Pressman, R.S. & Maxim, B.R.** (2020). *Software Engineering: A Practitioner's Approach* (9th ed.). McGraw-Hill Education.
5. **W3Schools, MDN Web Docs, GitHub Docs** – Online technical references for implementation and development.

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