Republic of the Philippines

SULTAN KUDARAT STATE UNIVERSITY

COLLEGE OF COMPUTER STUDIES

ISULAN Campus

Isulan, Sultan Kudarat

A.Y. 2024-2025

UNIVERSITY VISION

A leading University in advancing scholarly innovation, multi-cultural convergence, and responsive public service in a borderless Region.

UNIVERSITY MISSION

The University shall primarily provide advanced instruction and professional training in science and technology, agriculture, fisheries, education and other relevant fields of study. It shall also undertake research and extension services, and provide progressive leadership in its areas of specialization.

UNIVERSITY STRATEGIC GOALS

a. **D**eliver quality service to stakeholders to address current and future needs in instruction, research, extension, and production
b. **O**bserve strict implementation of the laws as well as the policies and regulations of the University.
c. **A**cquire with urgency state-of-the-art resources for its service areas;
d. **B**olster the relationship of the University with its local and international customers and partners.
e. **L**everage the qualifications and competences in personnel action and staffing.
f. **E**valuate the efficiency and responsiveness of the University systems and processes.

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 GOALS:

PROGRAM OBJECTIVES (PO)	OBJECTIVES						
A graduate of BS in Information Systems can:	a	b	c	d	e	f	g
a. Employ theoretical and practical skills in innovating latest technology in computing;	/	/			/		/
b. Design and implement business information systems;	/	/	/	/	/	/	/
c. Promote the advancement of industry-based services and technology that contributes to the development of the community; and	/	/	/	/	/	/	/
d. Demonstrate the code of conduct as well as social and legal aspects of Information Systems.	/	/	/	/	/	/	/

1. COURSE CODE : ELECT 3
2. COURSE TITLE : Elective 3
3. PREREQUISITE :
4. CREDITS : 3 Units

5. COURSE DESCRIPTION:

This course describes the specific tools, techniques, and practices that student needs to put in place in order to have understanding about supply chain management. Use ERP software to create a business application that will fit to an organization which have been optimized to be as straightforward and easy to implement as possible. It also contains advice for avoiding the problems that a students will typically encounter when bringing these tools into an organization.

6. COURSE LEARNING OUTCOMES AND RELATIONSHIPS TO PROGRAM EDUCATIONAL OBJECTIVES

COURSE LEARNING OUTCOMES	PROGRAM OBJECTIVES			
At the end of the semester, the student should:	a	b	c	d
a. develop and refine the conceptual model of Supply Chain Management	/	/	/	
b. understand user requirements/views, analyze existing and future data processing needs, apply techniques and develop an enterprise model that reflects the organization's fundamental business rules.	/	/	/	/
c. conduct thorough reviews of documents and code and gather software requirements and create specifications.	/	/	/	/
d. develop an understanding of the importance of logistics in the formulation of business strategy and the conduct of supply chain operations.	/	/	/	/
e. apply and build students' understanding of how to make effective changes to the way SCM is run in organizations.	/	/	/	/

7. COURSE CONTENT

Course Objectives, Topics, Time Allotment	Desired Student Learning Outcomes	Outcomes-Based Assessment (OBA) Activities	Evidence of Outcomes	Course Objectives	Program Outcomes	Values Integration
TOPIC: SKSU VMGO, CLASSROOM POLICIES, COURSE OVERVIEW, COURSE REQUIREMENTS, GRADING SYSTEM (2 hours)						
1.1 Discuss the VMGO of the university, classroom policies, scope of the course, course requirements and grading system	1.1 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			Value of appreciation

CHAPTER 1: INTRODUCTION TO SUPPLY CHAIN MANAGEMENT AND LOGISTICS (5 hours)						
2.1 Describe a supply chain and define supply chain management 2.2 Understand how supply chain management works 2.3 Discuss the typical SCM key performance indicators (KPI) 2.4 Discuss the functions of supply chain management 2.5 Understand the importance of supply chain management	2.1 Students can understand and explain what is Supply Chain Management means 2.2 Students can understand and explain how supply chain management works 2.3 The students can understand and explain typical SCM key performance indicators (KPI) 2.4 The students can understand and explain the functions of supply chain management 2.5 The students can understand the importance of supply chain management	Individual participation in class discussion and group presentation Lectures Interactive Sessions Case Analysis	Group and individual discussions Interactive Sessions Case Analysis Grading Rubrics	a, b, e	a, b, c	Unity and teamwork Value of participation Communication Challenge Achievement Creativity Value of Hard work Resourcefulness Value of Appreciations

2.6 Discuss the benefits of supply chain management 2.7 Discuss the skills and capabilities needed for Supply Chain Management	2.6 The students can understand and explain the benefits of supply chain 2.7 The students can understand and explain the skills and capabilities needed for Supply Chain Management					
CHAPTER 2: TECHNOLOGIES IN SUPPLY CHAIN MANAGEMENT AND LOGISTICS (5 hours)						
3.1 Define system, information system, technology and information technology 3.2 Discuss Information Systems and its subsystems used in SCM 3.3 Describe and differentiate among ERP, DSS, CRM, SRM, and logistics applications	3.1 The students can understand and explain the term system, information systems, technology and information technology 3.2 The students can understand and discuss information systems and its subsystems in SCM 3.3 The students can understand, describe and contrast ERP, DSS, CRM, SRM, and logistics application	Individual participation in class discussion and group presentation Lectures Interactive Sessions	Group and individual discussions Interactive Sessions Case Analysis	a, b, c, d, e, f, g	a, b, c	Unity and teamwork Value of participation Communication Challenge Achievement Creativity Value of Hard work Resourcefulness

3.4 Describe what is ERP systems, cloud computing and how they might impact future operations and supply chain activities 3.5 Discuss the benefits and challenges of Cloud-Based ERP systems 3.6 Discuss the prospect BIS project and other requirements to be considered	3.4 The students can understand and describe what is ERP systems, cloud computing and how they might impact future operations and supply chain activities 3.5 The students can understand and explain the benefits and challenges of Cloud-Based ERP systems 3.6 The students can understand and explain the prospect BIS project and other requirements to be considered	Case Analysis	Grading Rubrics			Value of Appreciations
CHAPTER 3: BUILD SUPPLY CHAIN MANAGEMENT (8 HOURS)						
4.1 Introduce SCM System requirements 4.2 Discuss Things to consider in building SCM	4.1 Students can introduce SCM System requirements 4.2 Students can discuss Things to	Individual participation in class discussion and group presentation Lectures	Group and individual discussions Interactive Sessions	a, b, c, d, e, f, g	a, b, c	Unity and teamwork Value of participation Communication

	consider in building SCM					Challenge Achievement
4.3 Introduce Building Block of SCM	4.3 Students can introduce and create Building Block of SCM	Interactive Sessions	Case Analysis			Creativity Value of Hard work
4.4 Introduce Web Development of SCM	4.4 Students can introduce and create SCM front end design	Case Analysis	Grading Rubrics			Resourcefulness Value of Appreciations
CHAPTER 4: SCM DEVELOPMENT AND TECHNICAL DOCUMENTS (10 hours)						
5.1 Discuss how to create SCM Database Structure	5.1 Student can create CRM database Structure	Individual participation in class discussion and group presentation	Group and individual discussions	a, b, c, d, e, f, g	a, b, c, d	Unity and teamwork Value of participation
5.2 Discuss the common use cases, use case diagram, Activity Diagram, Class Diagram, Database Schema and prototype use in SCM development	5.2 Student can discuss, create and develop CRM use cases, use case diagram, Activity Diagram, Class Diagram, Database Schema and porotype	Lectures	Interactive Sessions Case Analysis			Communication Challenge Achievement Creativity
5.3 Introduce content management system and open-source programming resources used in SCM Development	5.3 Student can use content management system and open-source programming resources in SCM Development	Interactive Sessions	Grading Rubrics			Value of Hard work Resourcefulness Value of Appreciations

5.4 Introduce the Content Management Software for SCM project development	5.4 Student can install, build and manage content and features for SCM	Case Analysis				
CHAPTER 5: IMPLEMENTING SCM PROJECTS (6 hours)						
5.1 Introduce on how to publish SCM project Online 5.2 Introduce how to build and manage cPanel 5.3 Introduce hot to build and maintain SCM Database 5.4 Discuss how conduct SCM project evaluation	5.1 Student can publish SCM project Online 5.2 Student can to build and manage cPanel 5.3 Student can build and maintain SCM Database 5.4 Student can conduct evaluation of SCM Project	Individual participation in class discussion and group presentation Lectures Situational Analysis Case Analysis Interactive Sessions	Group and individual discussions Interactive Sessions Case Analysis Grading Rubrics	a, b, c, d, e, f, g	a, b, d	Unity and teamwork Value of participation Communication Challenge Achievement Creativity Value of Hard work Resourcefulness Value of Appreciations
Examination 4 hours Lecture (36 hours) Laboratory (54 hours) **TOTAL NO. OF HOURS: 94 HOURS**						

8. COURSE EVALUATION:

Course Requirements: 80% running SCM System Project

- Group/Individual Requirement (Student is required to make a business project proposal. It contains planning, designing and implementing a business information system of any of the following subsystems of the Supply Chain Management System).

9. GRADING SYSTEM:

MIDTERM		**FINAL TERM**	
Exam	- 40%	Exam	- 40%
Course Requirements	- 20%	Course Requirements	- 20%
Attendance/Class Work	- 20%	Attendance/Class Work	- 20%
Quizzes	- 20%	Quizzes	- 20%
	100%		**100%**

MTG+FTG/2=FG

CONSULTATION HOURS:

- Friday (9:00-10:00AM) Only
- Set an online appointment schedule at Facebook Messenger Group Chat.
- Any concerns or inquiries beyond office hours will not be entertained.
- To set a consultation session at a different schedule, e-mail at jaymarkarendain@sksu.edu.ph

SCHEDULE OF EXAMINATION

Midterm	**-**	October 16, 2024
Final Term	**-**	December 11-13, 2024
Classes End	**-**	December 13, 2024

REFERENCES:

Textbooks:

- *Pagano, Anthony M., Liotine, Matthew, (2020). "Technology in Supply Chain Management and Logistics: A Current Practice and Future Applications". Elsevier, ISBN: 978-0-12-815956-9*
- *Wieland, Andreas; Handfield, Robert B.; Durach, Christian F. (2016-08-04). "Mapping the Landscape of Future Research Themes in Supply Chain Management". Journal of Business Logistics. 37 (3): 205–212. doi:10.1111/jbl.12131. ISSN 0735-3766.*
- *Kozlenkova, Irina V.; Hult, G. Tomas M.; Lund, Donald J.; Mena, Jeannette A.; Kekec, Pinar (2015-05-12).* "The Role of Marketing Channels in Supply Chain Management"*. Journal of Retailing. 91 (4): 586–609.* doi:10.1016/j.jretai.2015.03.003*.* ISSN 0022-4359*.*

E-Books:

- *F. Robert Jacobs and Richard Chase. Operations and Supply Chain Management, 17th Edition, ISBN10: 1265071276, 2023*
- *Dan Stanton, Millie Nelson and Gareth Macdonald. The Post-Pandemic Supply Chain, March 27, 2023*
- Martin Christopher. Logistics and Supply Chain Management, 2022
- *David Blanchard, Supply Chain Management Best Practices, 3rd Edition,* ISBN: 978-1-119-73823-7. June 2021
- *Pagano, Anthony M., Liotine, Matthew, (2020). "Technology in Supply Chain Management and Logistics: A Current Practice and Future Applications". Elsevier, ISBN: 978-0-12-815956-9*

Other Online References/Resources

- https://www.tutorialspoint.com/supply_chain_management/index.htm
- https://en.wikipedia.org/wiki/Supply_chain_management
- https://www.emerald.com/insight/content/doi/10.1108/IJOPM-02-2018-0056/full/html
- https://www.supplychainquarterly.com/articles/720-supply-chain-strategies-which-one-hits-the-mark
- www.w3schools.com
- https://fontawesome.com/
- https://getbootstrap.com/

- https://www.tutorialspoint.com/php/index.htm

Supplementals: https://www.youtube.com/watch?v=R8rYsCmAEEY

Prepared by:

JAY MARK F. ARENDAIN, MIS
Subject Intructor

Reviewed:

ALEXIS D. APRESTO, MIT
Program Head, BSIS

Checked:

BENEDICT A. RABUT, DIT
Dean, College of Computer Studies