

**ASSESSING THE SUITABILITY OF INDUSTRY-BASED TECHNOLOGIES
LEARNING RESOURCES TO OLIVAREZ COLLEGE BUSINESS
EDUCATION CURRICULA*****Lyssander Rodan C. Dela Cruz****Paper Received: 01.09.2023 / Paper Accepted: 19.09.2023 / Paper Published: 21.09.2023****Corresponding Author:** Lyssander Rodan C. Dela Cruz; **Email:** lyssanderrodan.delacruz@olivarezcollege.edu.ph; doi:10.46360/globus.mgt.120232004**Abstract**

The study examined the impact of adopting the SAP Business One Model on the business curricula of Olivarez College on the development of learning dimensions that covers the different areas of business which include (a) Accounting and Financials; (b) Sales and Customer Relationship Management; (c) Purchasing and Operations; (d) Inventory and Distributions and (e) Reporting and Administration. The descriptive analysis method of research was utilized. It was found that information from the different modules of SAP Business One Enterprise Resource Planning matched with the business administration curricula of Olivarez College. The process integrates various functions of a business including inventory and order management; accounting; human resources and customer relationship management which results in a streamlined process and available information to various users designed through a shared database. Thus, it is recommended to design the curriculum using industry-based technologies to produce graduates that possess a familiarity with business operations and equip them with critical decision-making skills for strategic and executive work necessary for competing in the ever-changing world of global business.

Keywords: SAP Business One, Industry-Based Technologies Learning Resources, Business Curricula, Enterprise Resource Planning.

Introduction

Traditional classroom practices call for instructor - led unidirectional learning where today's generation of students may find it unproductive, thus losing their interest and rendering their skills undeveloped.

With a fast - paced environment geared towards the use of the latest innovation-based technology, mode of instruction must likewise be developed to augment the learning process of students.

It is the role of any higher education institution to support the vision of its students for life-long learning thus, be able to equip them with necessary competencies for their quest towards economic and social advancements.

One of the most recognize application software in the industry is the SAP. It is an acronym for System analyse und Programmentwicklung. It was founded in 1972 by five former IBM engineers in Mannheim Baden-Wurtemberg, Germany. Its acronym was later changed to mean s Systeme, Anwendungen und Produkte in der Datenverarbeitung (System Applications and Products in Data Processing).

SAP is one of the industry players that cater to companies' requirements of having an integrated software operating on a real-time environment that is more commonly known as enterprise resource planning (ERP). An enterprise resource planning software integrates various functions of a business (inventory and order management; accounting; human resources; customer relationship management) into a one and complete system to streamline processes and information across the entire organization through a shared database. Through this, it offers some degree of synchronized reporting and automation.

Theoretical Framework

The mission of higher educations is based on the Commission on Higher Education task to be the lead agent in transforming Philippine education to be the prime knowledge center in the region. This task mandated the higher education institution to innovate learning methodologies and be responsive to the needs of both the students and society (CHED).

Another branch of the Philippine government recognizes the crucial role of science and technology as a means of enhancing productivity towards economic growth through expanding employment within the Philippines and its region (DOST). The economic growth of the Philippines is a joint

responsibility of the government, the private sectors and civil society through their role of developing its citizens as its human capital.

Conceptual Framework

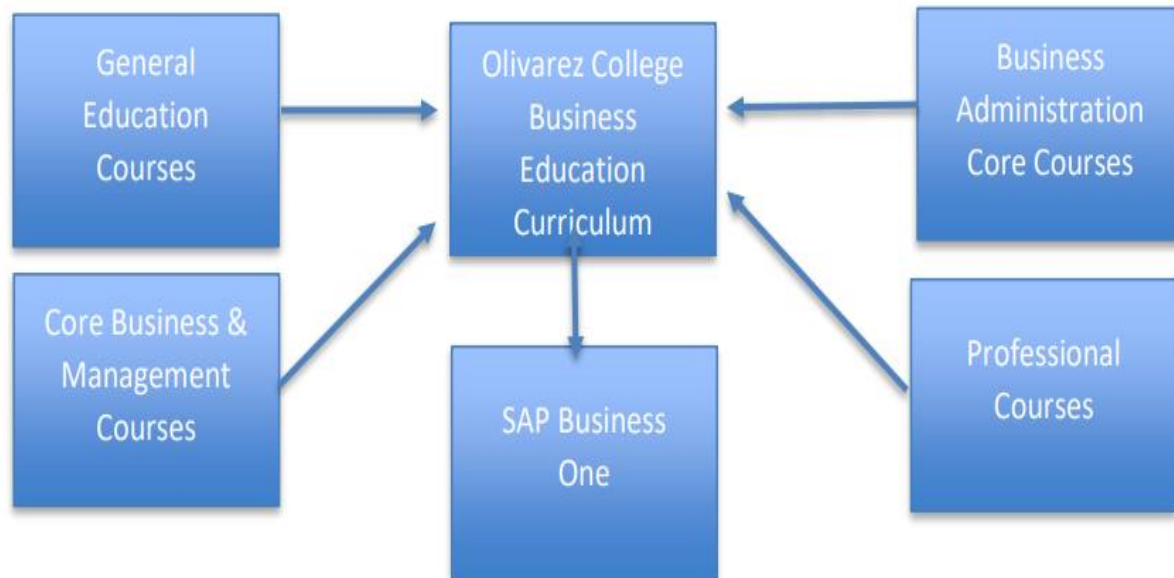


Figure 1: Conceptual Framework

The Business Administration program of Olivarez College is an interdisciplinary and problem-focused program comprising three integrated elements: (1) common business and management courses; (2) business administration core courses; and (3) professional courses.

The general education courses significantly prepare the students as they transition from high school to tertiary education and pursue professional level of education. This is purposely designed to strengthen four important learning outcomes or competencies, (1) communication skills, (2) logical and critical thinking, and (3) quantitative reasoning and computer literacy. The core business and management courses cover all the major functional areas of business and provide the foundational knowledge of the environment and the context in which a graduate of business administration work.

The business administration core courses consist of the four functional areas of business which a student in business administration has to have basic knowledge on these functional areas. The professional courses lay the fundamental concepts that every business administration student has to know in the field of business.

Each business core consists of courses designed to develop the critical thinking, problem solving, interpersonal, communication, quantitative, and

computer skills needed by graduates to successfully serve as leaders in business organizations.

SAP Business One is a commercial enterprise control software that incorporates modules that can be accessed by customers to manage its commercial enterprise operations and facts. These SAP modules are mostly used in various departments of companies like operations, sales and marketing, human resource, finance and quality management. Its features are categorized as fifteen functional modules to complete the typical functions in an organization. This widely used modules in SAP are sales, financials, banking, business partners and inventory. Each SAP features its specific business chores. (vedantu.com).

SMEs operations and performance could also be influenced by gender. A report by Ogbuji and Zorbari-Nwitambu (2017) maintained that managers of SMEs who were males tend to perform better than their female counter parts. Although some studies such as Shava and Rungani (2016) revealed no significant difference in SMEs performance as a result of gender. The inconsistency of the findings on the context of the study prompted the present study.

Statement of the Problem

The research aimed to find out the applicable industry-based technology learning resources that is

suitable to the Business Administration curricula of Olivarez College. The research sought to answer the following questions:

1. Is the Business Administration curricula of Olivarez College fit for a blended learning education?
2. What courses in the Business Administration curricula of Olivarez College is blended learning applicable?
3. Do the course / syllabus content and the design of the Business Administration curricula of Olivarez College equate with industry-based technology application content?

Scope And Delimitation

This study assessed the suitability of industry-based programs as mode of learning instructions to Olivarez College business education curricula. In addition, the study would be useful for higher educational institution in developing their alternative mode of instruction.

The study subject matter was the 2018 Business Administration curriculum of Olivarez College in compliance with CHED Memorandum Order No. 17, Series of 2017 and the SAP Business One Enterprise Resource Planning Application. The study is limited to an in-depth analysis of the business administration courses syllabus designed by its respective faculties and the content of its equivalent module in the SAP Business One.

Methodology

This paper used a descriptive analysis method of research. Relevant information from Olivarez College business education curricula adopting the curricula prescribed by the Commission on Higher Education were used as raw data. In addition, information from SAP Business One and other necessary data from relevant sources were also considered in the research. These two sets of data were then used in the study.

A comparative study was made to determine the applicability of the different business modules of whether this complements the requirements of the business education curricula of Olivarez College.

Results and Discussions

SAP Business One is an integrated software that provides a real time view and manages key business areas such as (a) Accounting and Finance; (b) Sales and Customer Management; (c) Purchasing and Operations; (d) Inventory and Distributions; and (e) Reporting and Distributions.

The integration discusses above describes the formula where enterprise resource planning operates, that is: $ERP = MRP + FAM + SCM + CRM$.

The main thrust of materials requirement planning is the availability of inventory whether raw materials (for production) or finished goods (for sales) in order to avoid shortages and stock out cost. Financial and accounting management addresses the need for proper and fairness of the client financial statements, which is critical for one business.

Supply chain management is the oversight of materials, information and finances as they move in a process from supplier to manufacturer to wholesaler to retailer to consumer. Supply chain management involves coordinating and integrating these flows within and among companies.

Customer relationship management is a term that refers to practices, strategies and technologies that companies use to manage and analyze customer interactions and data throughout the customer life cycle with the goal of improving business relationships with customers, assisting in customer retention and driving sales growth.

Due to rapid changes and development, aside from the above mentioned, vendors (providers) provide variety of packages (modules / solutions) that are mixed and matched according to the needs of the companies. The key to these large databases and an integrated enterprise resource planning system is to develop interfaces that will allow file access to these databases. (Heizer, 2006)

The business administration courses of Olivarez College were granted recognition by the Commission on Higher Education. The program currently has a Level IV accreditation from the Philippine Association of Colleges and Universities - Commission on Accreditation (PACUCOA).

PACUCOA is an independent body that monitors higher educational institution compliance to quality instruction. As a Level IV program, it enjoys deregulation from the Commission on Higher Education.

The Business Administration curriculum is designed to produce graduates that possess a familiarity of business operations and equip them with critical decision - making skills for strategic and executive work necessary for competing in the ever-changing world of global business. The program empowers students with a basic and clear understanding of the functions of every division in a company be it in marketing, finance, operations, human resources and office management. Training in this program

emphasizes leadership skills and thus prepares students for managerial and supervisory positions.

Based on the assessment made, the study conducted yielded positive results as the different modules of

SAP Business One Enterprise Resource Planning matched with the business administration curricula of Olivarez College. Herewith are the results of the study:

Course	Course Description	SAP Business One ERP Environment	
		Application	Module
General Education	Application Software 1	ERP – Database Management	
Business Administration Core Courses	Fundamentals of Accounting (Basic Accounting)	Fundamentals of Accounting w/ Cost Accounting	Finance
	Basic Finance		
	Principles of Management		
	Human Resource Management	HR, Payroll	Finance
	Marketing Management	Sales	Material Requirement Planning
Business and Management Education Courses	Production and Operation Management	Inventory Production	Material Requirement Planning
	Inventory Management and Control	Inventory Production	Supply Chain Management
	Logistic Management		Logistic
	Financial Management		Customer Relationship Management
Professional Courses	Professional Salesmanship	Entrepreneurship	Logistic
	Strategic Management		Customer Relationship Management
	Business Policy		
	E-Commerce		

The business administration curricula of Olivarez College, as evident, is designed in accordance with the minimum requirements of the Commission of Higher Education that was made to improve by producing an outcome and industry-based competencies. The above table shows the applicable module under the SAP enterprise resource planning to the different courses of Olivarez College business education curricula. This further shows that the implementation of a blended learning through the integration of an enterprise resource planning using

the SAP Business One (which is enjoying a good market share) complement towards the achievement of its objective of producing good, quality and competent graduates.

In addition, Olivarez College graduates of their business curricula can be issued a certificate of course completion as evidence of their skills and competencies in handling SAP.

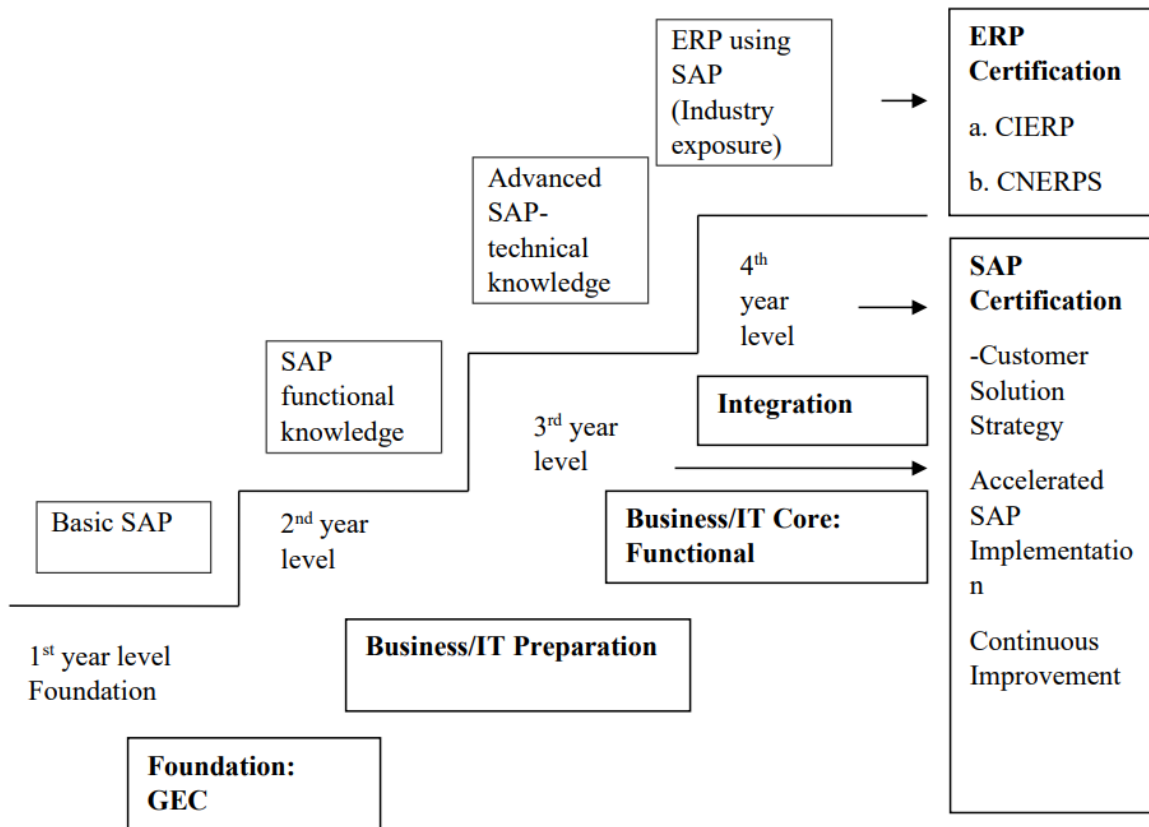


Figure 2: Schematic Diagram of ERP Using SAP Systems Technology (Pastrana, 2008)

The above figure shows that graduates who are already exposed in SAP may decide to study and improve their skills further as they may attend to different trainings and attend the certificate examinations and build a career in information technology or act as consultant in the field.

Conclusion & Recommendations

The challenges to the business environment are as fast as how it will respond to such brought about by information technology. The integration of different modules that each department of an organization requires is evident that the organization of the 21st century is no longer defined as what is within the bounds of its structures but is also defined by the breadth and depth of its relationship to its stakeholders thus the term relational enterprise.

The International Conference for Engineering and Business Education in 2007 recognizes the importance of information technology in today's workplace and understand how they could interface with technologies as they think critically, identify and solve problems, communicate effectively and work as a team.

The government itself in its public-private partnership recognizes the need of having a formidable partner in order to promote its basic

services. The same goes with the higher educational institution, schools, colleges and universities may have an expertise in developing the critical thinking skills of their students which is best complemented by having a suitable partner that will provide their graduates the necessary skills.

The industry-higher education institution partnership will serve as a solution in identifying and filling in the gap between the products of the higher education institution as against the needs of the industry. With this, an innovative learning approach is made possible by a perfect and suitable curriculum design enhanced by industry-based technologies.

Conflict of Interest

There is no conflict of interest by the author in this manuscript.

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