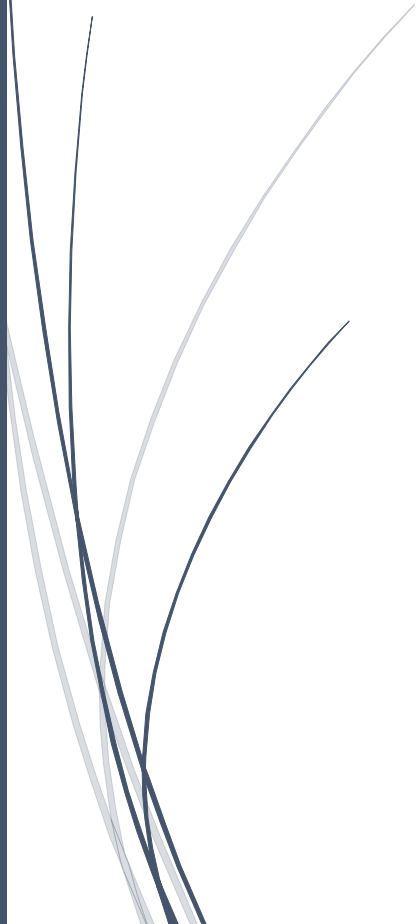


UNIVERSITY OF ECONOMICS AND LAW  
FACULTY OF INFORMATION SYSTEMS

# COURSE DESCRIPTION

BACHELOR OF MANAGEMENT INFORMATION SYSTEM



No	Course name	Credit	Description
1	Ho Chi Minh Ideology	2	The course provides students the knowledge of Ho Chi Minh's thoughts on the nation and the national liberation revolution; socialism and the transition to socialism in Vietnam; great national unity, combining national strength with the strength of the times; Communist Party of Vietnam; on-building the state of the people, by the people, for the people; ethics, humanity and culture.
2	MICROECONOMICS	3	Includes the basic contents of microeconomics: market supply and demand, supply-demand balance, consumer behavior, business and production, cost theory, perfect competition, monopoly, oligopoly, monopolistic competition, factor market....
3	FUNDAMENTALS OF LEGISLATION	3	The course consists of 7 chapters on issues of the law and the Vietnamese legal system
4	Higher Mathematics	5	The first part of the course provides the knowledge of linear algebra and some basic applications in economics, especially linear relationship. Part 2 provides knowledge of Multivariable Differential, Factors and Multiples and differential equation, applications of mathematical analysis in economics.
5	FUNDAMENTAL INFORMATICS	3	The course provides students with knowledge of programming thinking, approaches to programming methods, and Algorithm Flowchart. Programming with C # language, how to separate programs into many modules to process, how to transform real-world operations into computer software.

6	Introduction to Management Information Systems Course	2	<p>The subject consists of 3 parts:</p> <p>Part one: Basic introduction to Management Information System program, basic concepts of organization, business, business process, management ...</p> <p>Part two: Introduction to the training program of Management Information System, and the structure of the course series.</p> <p>Part three: Visiting and interacting with business organization, students, conducting essays, presenting, group discussions about IT application solutions for business administration, management information system solutions. Management is being applied in businesses today, career orientations in the field of management information system.</p>
7	CULTURISM	2	<p>Provides students the knowledge, learning and research methods:</p> <ul style="list-style-type: none"> <li>- Methods and subjects of culturism study.</li> <li>- Concept of culture, civilization, trends.</li> <li>- Method of applying culturism in economics and tourism.</li> <li>- Cultural policies in the new context.</li> </ul>
8	SOCIOLOGY	2	<p>In addition to introducing some theoretical knowledge, methodology, sociological research methods ..., the course also helps students understand that society is a system which includes many complex problems of modern society. The content of the subject consists of 14 chapters, presenting briefly about the conditions and prerequisites for the sociology, the history of formation and development of this science (from chapter 1 to chapter 3), and issues of sociology (chapters 4 to 12), sociology matters (chapter 13) and sociological research method (chapter 14).</p>

9	Vietnamese Culture	2	In addition to the basic theories about culture and Vietnamese cultural process, the course includes knowledge of basic cultural elements: cognitive culture, Vietnam's organizational culture and behavioral culture.
10	POLITIC POLICIES IN THE WORLD	2	The course provides students the basic knowledge of geopolitical theories around the world, on which basis analyzing, explaining and mastering political events, political developments in geographical regions, from a region, country, group of countries to continents and the world.
11	INTERNATIONAL RELATIONS	2	The course provides the knowledge of international relations, International systems, methods in international relations, Cooperation and integration in international relationship.
12	World civilization history	2	
13	Corporation law	3	<p>The basic contents of the organization provide students the basic knowledge of the business models, describing the basic legal regulations on each type of business;</p> <p>In each specific content, the course helps learners approach each specific issue in the organization of corporate governance, regulations on the financial view and the legal relationship between the owner and members in organization;</p> <p>The content of the course also helps learners understand the legal regulations on reorganization such as division, separation, merger, consolidation and conversion of enterprises.</p>
14	MACROECONOMICS	3	<p>The course consists of 9 chapters, providing students the basic knowledge of analyzing the interactions between basic macroeconomic variables. Including the following basic contents:</p> <p>- Calculate Gross National Product and Gross national income</p>

			<ul style="list-style-type: none"> <li>- Determine total supply, aggregate demand, and fiscal policy</li> <li>- Money market and monetary policy</li> <li>- Inflation and unemployment</li> <li>- Open economy</li> <li>- Economic growth and development</li> </ul>
15	PRINCIPLES OF ACCOUNTING	3	Provide students the basic knowledge of accounting such as the roles, functions, duties ... of accounting; In addition, this subject also helps students grasp the content of accounting methods and principles. The course provides knowledge for students to continue studying the accounting disciplines.
16	MANAGEMENT THEORIES	3	The course provides students the principles and techniques to accomplish common goals in organization. The course starts with “what is the management” and “who are managers, what do they do, where do they work?” Why must study management? Aspects of the internal and external environment of the organization and the impact of its environmental factors on its performance. Principles, forms and sources of information; Information in the organization and information management. Basic models and concepts for managers are used in the organization to make decisions. Four basic management functions: planning, organization, leadership, and inspection.
17	PROBABILITY AND STATISTICS	2	The course introduces the basic and core knowledge of probability theory to help students understand random phenomena - the basic research object of probability; understand and know probability of random events and know how to apply them appropriately in practice. The module also provides students some of the most common probability distribution rules for Applied Statistics and Econometrics courses.

18	PROGRAMMING TECHNIQUES	3	The course provides students the knowledge of programming techniques - C# on Windows Presentation Foundation (WPF), object-oriented programming, file handling, library packaging.
19	Philosophy of marxism and Leninism	3	<p>The course provides students the knowledge of worldview and methodology of dialectical materialism and historical materialism of Marxist-Leninist Philosophy.</p> <p>Initially know how to apply the basic principles of the Marxist-Leninist Philosophy in analyzing and evaluating practical problems in life.</p>
20	FUNDAMENTAL PSYCHOLOGY	2	Through the subject, students have the ability to grasp the characteristic features, understand the mechanisms of formation and concrete expression of basic human psychological phenomena. Moreover, students have ability to handle into behavioral communication in studying and working.
21	INTRODUCTION TO SCIENCE COMMUNICATION	2	The course consists of 9 chapters. Thereby students understand the basic concepts of communication; What is the behavior, the origin of the behavior. At the same time, students perceive the human need as the driving force to help people act and do a self-evaluation. Students who are aware of the elements of non-verbal and verbal communication, know how to improve effective verbal communication to strengthen and develop relationships ...

22	General Anthropology	2	<p>Knowledge (G2.1): The course provides students the knowledge of (G2.1.1) understand the science of human studies in all aspects of biology, culture, society; (G2.1.2) understand the relationship between anthropology and other sciences such as history, philosophy, religion, psychology ...; (G2.1.3) understand methods, theory and research approaches of anthropology.</p> <p>Skills (G2.2): Equip students with skills in (G2.2.1) anthropological research, (G2.2.2) understanding how to apply methods and theory when studying problems related to anthropology.</p> <p>Attitude (G2): Students respect the cultural diversity in Vietnam and around the world.</p>
23	History of Vietnamese communist party	2	<p>The course aims to provide students the knowledge of: The role of the Communist Party of Vietnam in the process of building and defending the country, and experience in leading the Vietnamese revolution. It also provides the overview of the important innovations in Party awareness and policy from 1986 up to the present through the National Congress.</p>
24	PRINCIPLES OF MARKETING	3	<p>The course provides students the basic theories of analyzing the marketing environment, customers, industries and competitors; market segmentation and target market selection; and a number of issues related to products, pricing, distribution of sales and promotions and Brands.</p>
25	ECONOMICS OF MONEY AND FINANCIAL MARKETS	3	<p>The course provides students the knowledge related to tools, skills, methods of economic thinking in some basic economic principles such as: structure of domestic and foreign financial markets; explain the financial category, the role of the state budget; a simple approach to the choice of investment assets (theory of demand for assets); the concept of balance, analysis of supply and demand; analysis of interest rate volatility and risk</p>

			structure; operating on the foreign exchange market; information disparity ...
26	Financial Accounting	3	The course provides students the knowledge of the accounting activities in the organization, operations and accounting methods and procedures of a number of accounting practices (capital accounting, receivable Accounts - accounting for raw materials, tools, salary and salaries accounting, fixed assets and investment properties, production cost accounting and product cost).
27	DIGITAL INFRASTRUCTURE FOR INFORMATION SYSTEM	3	The course provides students the knowledge of network foundation, technology for IoT infrastructure
28	APPLIED INFORMATICS	2	The course provides students the knowledge of computer architecture, the components, data security, MSWORD, MS POWERPOINT, MINDMAP, computer network and Internet, data backup, business information system, MS EXCEL, MSS ACCESS
29	LOGIC	2	The course consist of 6 chapters: Principles of logic, The basic laws of thinking, Concepts, Judgment, Inference, Prove, Pragma-dialectics and applied exercises. Basic logic as the minimum means to train and improve students' thinking skills, help learners think quickly, accurately, reason tightly, prove, reject in a convincing way, present thoughtfully. The idea is concise, extracted, clear, coherent, knows to detect right and wrong, reversal, and sophistry in other people's arguments.
30	Thống kê ứng dụng	3	The course provides students the knowledge of statistical survey methods, including the collection data on socio-economic phenomena and the processing of collected information. The socio-economic analysis methods is the basis for predicting the



			phenomenon in the future to help decisions in economic management.
31	Advanced PROGRAMMING TECHNIQUES	3	Provide students the basic knowledge of programming and using program language C#. Provide students the knowledge of Windows form platform. Provide students the knowledge of Object-oriented programming. Students gain the skills: Programming/coding, Create and develop applications.
32	Political economics of marxism and leninism	2	<p>The basic theories of Marxist-Leninist political economy includes: the theory of commodity production, the basic laws of the market; the theory of the residual value of Marx; the theory of monopolistic capitalism and state monopoly.</p> <p>The basic content of applying Marxist-Leninist doctrine in the period of building socialism in Vietnam: market economy with socialist orientation; industrialization and modernization associated with knowledge economic development and international integration.</p>
33	International Economics	2	The course provides the knowledge of supply and demand analysis, firm and consumer behavior, perfectly competitive, oligopolistic and monopolistic market structures, and the effects of market distortions. The typical course describes economic relationships between consumers, firms, factor owners, and the government.

34	Business Information System	2	<p>The subject consists of 2 parts:</p> <p>Part I: Introducing basic concepts such as Organization, Enterprise, Operations in the enterprise, Information systems, especially ERP (Enterprise Resource Planning). Describe the processes, stages and issues in the ERP implementation, the role of ERP in supporting corporate governance. In this section, students can access and practice on the ERP system which is considered to have the largest scale in the world today, SAP ERP with Dataset GBI version 2.1 2011 (this package contains data of Global Bike Incorporated, developed by SAP to serve the ERP training for universities participating in the SAP UAP - University Alliances Program, in which the University of Economics - Law is a member).</p> <p>Part II: Presentation of the standard modules of SAP ERP and the key business processes of Accounting, Sales (Fulfillment), and Procurement. Present the integration of these processes in an ERP System through Master data, Cross-functional processes.</p>
35	E-COMMERCE	3	<p>The course provides students with general knowledge about e-commerce as well as issues of e-commerce system development, building e-commerce business projects.</p>
36	Management Information Systems	3	<p>The subject consists of 4 parts:</p> <p>Part one: introduction of general knowledge about information systems, the components of an information system.</p> <p>Part two: provides knowledge about the types of information systems in terms of management and function aspects; Information systems in practice today such as ERP, SCM, CRM.</p> <p>Part three: equipping with knowledge about the process of building and developing information systems.</p>

			Part four: introduce knowledge to manage, secure and control information systems.
37	INTRODUCTION TO DATABASE	3	<p>The course covers the roles, needs, and ways of structured data in enterprise information systems. The course introduces popular database models, and goes into the presentation and analysis of relational database models and applications. After completing the course, students will have the necessary skills and knowledge to fully perform the process of building a database to meet the business requirements.</p> <p>The subject consists of 4 parts:</p> <ul style="list-style-type: none"> <li>• Part one: Introduction to database and relational database model.</li> <li>• Part two: Using structured data query language - SQL in database management and information exploitation.</li> <li>• Part 3: Standardize database, introduce standard formats, offer solutions to evaluate and optimize database.</li> <li>• Part four: Programming software to exploit the database with C # in a 3-layer model.</li> </ul>
38	RESEARCH METHODOLOGY	2	<p>The course provides the knowledge and skills to do research, steps to conduct a research, methods of quantitative and qualitative research, methods of collecting information, data and data analysis methods for research, the content and content sequence of a research report such as a dissertation, and introduce economic research problems in the macro and micro. In the contents presented, there will be discussions about relevant case exercises.</p>

39	Teamwork	2	<p>Teamwork skills are one of the most essential soft skills in everyday life as well as in work. To have good teamwork skills, students must understand the basic theories and the nature of the group work process, and students must apply, observe and practical experience to improve their skills.</p> <p>Students will be able to apply teamwork skills to the learning process; establishing, building groups, assigning tasks reasonably; building a common team working rule; know how to apply basic principles and skills in teamwork; practice a number of teamwork skills such as presentation skills, problem solving skills, conflict handling skills, meeting organization skills, leadership skills; and maintain an effective teamwork spirit.</p> <p>This course support many others purposes: working in business, administration, in the social work group, working with the community ... Especially for students, teamwork skills will help you quickly integrate into the working environment after graduation and career advancement.</p>
40	Documentation	2	<p>The module includes the following contents:</p> <p>Chapter 1: Overview of Vietnamese text</p> <p>Chapter 2: Practice analyzing text.</p> <p>Chapter 3: Practice creating text</p> <p>Chapter 4: Practice of drafting scientific documents</p> <p>Chapter 5: Practice of drafting administrative documents</p>

41	Database Management System	3	<p>The subject consists of 2 parts:</p> <p>Part one: The course introduces basic SQL using Oracle database technique 11g. The course introduces relational database concepts and the SQL programming language. The course provides essential SQL skills that allow software developers to write queries that retrieve data from one or more data tables, manipulating data in data tables. Investigate the objects in the database schema. Create index files, bindings. Create and query external data tables, and transform data in a data warehouse application.</p> <p>Part two: summarize the architectural components of the database, the system permissions and object rights in the database. Using Enterprise Manager (EM) tool create users, assign permissions, create data storage areas. The main subject using the tool is Oracle SQL Developer and using SQL * Plus as an optional tool.</p>
42	Business Website Development	3	<p>The course provides students the knowledge to design and write a program to support simple business through client-side programming languages: HTML, CSS, JavaScript, XML, DOM model, Angular ...</p>
43	Analysis and Design of Management Information System	3	<p>The subject consists of 2 parts:</p> <ul style="list-style-type: none"> <li>- Part 1: introduce &amp; review knowledge about information systems and management information systems; present stages &amp; methods of the MIS analysis &amp; design, pros and cons of methods; the current status of management information system application and deployment in our country, advantages and disadvantages as well as development trends and relevant job positions.</li> <li>- Part two: presents site surveys process, requirement analysis, component design, and proposal of construction solutions.</li> </ul>

44	INTEGRATED BUSINESS PROCESSES WITH ERP SYSTEMS	3	The course aims to provide students with basic knowledge of enterprise information systems - ERP system. In which, the course presents concepts related to organizations, business business processes in organizations and the support of enterprise information systems in the computerization of business operations.
45	HUMAN RESOURCE MANAGEMENT	3	<p>The course aims to equip students with basic knowledge of human resource management functions in an organization such as attracting, training and developing, evaluating work performance, paying labor and maintaining employees. In addition to the functions, basic knowledge, human resource management skills also help learners develop their ability to analyze and solve organizational problems in order to achieve two basic goals: labor productivity, work efficiency of the organization and satisfying the personal development needs of each employee.</p> <p>At the end of this course, students' knowledge is assessed according to the output standards of the human resource management subject. Result are assessed on 6 awareness levels by Benjamin S.loom (1956).</p>
46	ORGANIZATIONAL BEHAVIOR	3	Organizational Behavior provides the necessary basic knowledge for the administrator based on the research background of psychology and sociology. Help future managers understand the causes and influencing factors, both internal and external, leading to the behavior of individuals, groups in the organization; learned a number of ways to solve management problems related to the people in the organization. Every manager needs good human relations skills to be able to manage subordinates, communicate with superiors, and successfully manage organizational changes. These knowledge and skills are of more practical significance in the Vietnamese

			context, when businesses and organizations are forced to innovate.
47	Information system project management	3	This course provides the basics of information system project management, including the processes performed in the project and the software project implementation model. For each process, students will get to know the details of the management tasks to be performed as well as understand the inputs and outputs of each process.
48	Artificial intelligence and Decision support system	3	This course helps students understand and have the ability to install, operate and apply artificial intelligence management and apply solution (Business Intelligens - BI). Managing data, information and making statistics and reports plays a very important role for all units, organizations and especially businesses. The statistics reported in BI to provide intuitive, accurate, complete and timely information will help administrators in assessing, forecasting the situation, making strategy as well as policies, business development plans in the short and long term. The numbers and statistical forms are the most important basis for examining and evaluating the implementation of such plans, strategies and policies. Studying this subject will help students apply a series of previous subjects such as: Database, accounting, finance and management subjects to organize a BI system to support good decision making. Based on data analysis, it helps the organization to gain a competitive advantage. In addition, this course will help students practice data analysis skills, soft skills and attitude in the work in the future.
49	ADVANCED WEB DEVELOPMENT	3	This course equips students with full knowledge and skills related to server-side web programming such as web server (IIS), ASP.NET Web forms, ASP.NET MVC, ASP.NET Core, new techniques and

			technologies related to building and deploying Web applications.
50	Scientific socialism	2	The course provides students the basic contents of scientific socialism, scientific theoretical principles to understand the historical mission of the working class, and the transition to socialism, the policy line of building socialism in Vietnam; explain and have the right attitude towards the road to socialism - the path that our Party and people have chosen.
51	Integrated Business processes with ERP Systems P2	3	Describe in detail the key business processes in the business such as Material Management, Production and Planning processes, the role of Management Accounting, Warehouse Management, Human Resource Management. The content presented in each process includes: basic concepts and terms, information systems and key data (Master data), business stages and the interconnection of the stages, interaction between the process and the others, case study exercises on SAP ERP system
52	Thoery of Auditing	3	The main content of the subject includes the basic principles of the nature, objects, methods and auditing activities, especially independent audit.
53	Safety and Security Information system	3	The subject includes the following sections: <ul style="list-style-type: none"> <li>- Outline of information system security, threats to information systems.</li> <li>- Learn some methods of system security, encrypting information.</li> <li>- Find out about some database security measures such as decentralization, database access control.</li> <li>- Learn security in modern applications (e-commerce, mobile apps)</li> </ul>



54	Data-mining& Data-warehouse	3	<p>The subject consists of 3 parts:</p> <ul style="list-style-type: none"> <li>- Concepts and methods of building data warehouses.</li> <li>- The concept of data mining. Some data mining algorithms, applied in economic information exploitation.</li> <li>- Some models applied in economics.</li> </ul>
55	Accounting Information Systems	2	<p>This course provides the basics of accounting information systems, helping students systematize subjects in business administration, thereby organizing accounting information systems to control assets as well as provide promptly provide useful information for managers inside and outside the business when making business decisions.</p> <p>The course begins with the introduction of accounting information systems in enterprises, then describes the main business processes and control the process, and finally the criteria for selecting and operating the accounting information system in the enterprise.</p> <p>Through the theory presented in class, combined with guided references, students will build one or more specific business processes in a business unit.</p>
56	Developing ERP by Open Source	2	Learn open source, programming languages and open source applications to develop basic ERP systems
57	Data analytics with R/Python	3	<p>This course introduces the fundamentals of data analytics with python. It first reviews several most popular python libraries in data science, Numpy, Pandas, and Matplotlib. Then it focuses on basics of statistics concepts, time series analysis, and natural language processing. The course follows a streamline of data analytics projects with python. The course uses the hand-on approach, integrating the concepts of data analytics with python code examples.</p>

58	Develop mobile commerce	3	<p>Mobile computing, technical platform for programming mobile applications on Android platform, front-end level.</p> <p>Mobile commerce concepts and models, business forms and marketing.</p>
59	Big Data and Applications	2	<p>Business data analytics provides an introduction to business intelligence and analytics, which include the use of data, statistical and quantitative analysis, exploratory and predictive models, and evidence-based methods to inform business decisions and actions. The identification of data, variables, and relevant business questions – and the iteration of these throughout the decision-making process – to provide value to organizations is highlighted throughout the semester. The application of select data mining techniques to business decision-making situations is illustrated. Students actively participate in the delivery of this course through assignments, portfolio development, and projects. Upon successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the Big Data Platform and its Use cases</li> <li>• Provide an overview of Apache Hadoop</li> <li>• Provide HDFS Concepts and Interfacing with HDFS</li> <li>• Understand Map Reduce Jobs</li> <li>• Provide hands on Hadoop Eco System</li> <li>• Apply analytics on Structured, Unstructured Data.</li> <li>• Exposure to Data Analytics with R.</li> </ul>
60	Quality control techniques (For students who not do thesis)	2	<p>The course equips students with skills to judge, detect software bugs, how to plan a test, write test documents.</p> <p>- Teaching content:</p> <ul style="list-style-type: none"> <li>• Software testing overview</li> <li>• Testing in software development process</li> <li>• Design test cases</li> </ul>

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|  |  | <ul style="list-style-type: none"><li>• Test support tools</li><li>• Test plan and test documentation.</li></ul> |
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**FACULTY OF INFORMATION SYSTEMS**

**DEAN**



**LÊ HOÀNH SỬ**