



Course Description

Information Management & Information Systems

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1. ACM-major Subject Courses

1.1. Linear Algebra

Course Title	Linear Algebra
Course No.	A1501000050
Semester	1-1
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course provides a comprehensive introduction to linear algebra, which is a fundamental component of mathematics for data analysis in computer science and data engineering. Students learn about vector spaces, linear transformations, matrix operations, and eigenvalue/eigenvector analysis. Key topics include systems of linear equations, orthogonality and inner product spaces, determinants and matrix decompositions. The course emphasizes practical applications to computer graphics, machine learning, and data analysis, providing essential mathematical tools for solving problems in information management and computer science, and forming a critical foundation for data engineering and AI applications.
Assessment	<ul style="list-style-type: none"> • Regular Grade (40%) • Mid-term Examination (30%) • Final Examination (30%)

1.2. Advanced Mathematics①(I)

Course Title	Advanced Mathematics①(I)
Course No.	A1501000015
Semester	1-1
Credit	5.0 (7.5 ECTS)
Course Hours	80
Course Description	This course provides a comprehensive introduction to advanced mathematics, focusing on calculus and its applications in computer science and data engineering. Students learn single-variable calculus, differential equations, multivariate calculus, and numerical methods. Key topics include series and approximation techniques, complex variables and transforms, and numerical methods for solving mathematical problems. The course emphasizes practical applications to computer science challenges, such as numerical computations, data analysis, and algorithm design, providing a solid mathematical foundation for information processing and problem-solving, particularly for data engineering and AI applications.
Assessment	<ul style="list-style-type: none"> • Regular Grade (30%) • Mid-term Examination (30%) • Final Examination (40%)

1.3. Management Principles

Course Title	Management Principles
Course No.	A1444000050

Semester	1-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive introduction to management principles with a focus on their application in information management and information systems environments. Students learn about management principles and organizational theory, organizational behavior and team dynamics, business strategy formulation and execution, and decision-making processes in information systems. Key topics include leadership skills for managing information teams and the application of management principles to information system projects. The course emphasizes how management principles can be applied to optimize the design, implementation, and operation of information systems, providing foundational knowledge for managing information systems and teams in organizational settings, which is highly relevant to information management practice.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.4. Python Programming Language (Art and Management)

Course Title	Python Programming Language (Art and Management)
Course No.	A1901000212
Semester	1-1
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course introduces the principles and practices of Python programming with a focus on applications in information management and business analytics. Students learn programming language fundamentals in Python, algorithm design techniques such as greedy, divide and conquer, and dynamic programming, and implementation of simple data structures including stacks, queues, lists, trees, and hash tables. Key topics also include traversal and search algorithms, analysis of algorithms using big O notation, debugging and testing techniques, and data analysis and visualization with Python libraries. The course emphasizes practical skills that are essential for working with information systems and data processing, providing foundational programming and algorithmic abilities relevant to information management and data analysis.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.5. General Chemistry(arts)

Course Title	General Chemistry(arts)
Course No.	A1503001040
Semester	1-2

Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course introduces general chemistry with a strong emphasis on mathematical and quantitative approaches. Students learn to apply mathematical techniques to model chemical reactions, solve stoichiometric problems, analyze thermodynamics and equilibrium, and interpret chemical kinetics data. Key topics include quantitative analysis, statistical mechanics applications in chemistry, and data analysis for chemical experiments. The course focuses on the mathematical principles and techniques underlying chemical analysis and modeling, which provide a quantitative foundation relevant to information management and computational approaches in science.
Assessment	<ul style="list-style-type: none"> • Regular Grade (45%) • Mid-term Examination (25%) • Final Examination (30%)

1.6. Principles of Economics

Course Title	Principles of Economics
Course No.	A1449000230
Semester	1-2
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course introduces economics through a quantitative and computational lens, emphasizing the mathematical foundations of economic theory and analysis. Students learn to model economic systems using mathematical techniques, apply optimization and probability theory to economic problems, and use quantitative methods for economic forecasting and policy analysis. Key topics include mathematical modeling of supply and demand, optimization in decision-making, and statistical analysis of economic data. The course focuses on the mathematical principles and techniques underlying economic analysis, which provide a quantitative framework relevant to information management and computational decision support systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (45%) • Mid-term Examination (25%) • Final Examination (30%)

1.7. Advanced Mathematics①(II)

Course Title	Advanced Mathematics①(II)
Course No.	A1501000016
Semester	1-2
Credit	5.0 (7.5 ECTS)
Course Hours	80
Course Description	This course continues the study of advanced mathematics, focusing on multivariate calculus and its applications in computer science and data engineering. Students learn about advanced calculus and integral trans-

	forms, partial differential equations, optimization and variational methods, complex analysis and differential geometry, and numerical analysis and computational methods. The course emphasizes applications to computer graphics, data science, and machine learning, providing advanced mathematical tools for solving complex problems in information management and computer science, which are essential for advanced applications in data engineering and AI.
Assessment	<ul style="list-style-type: none"> • Regular Grade (35%) • Mid-term Examination (30%) • Final Examination (35%)

1.8. Introduction to industrial engineering (IE)

Course Title	Introduction to industrial engineering (IE)
Course No.	A1441000230
Semester	1-2
Credit	1.5 (2.25 ECTS)
Course Hours	24
Course Description	This course provides an introduction to industrial engineering with a focus on system optimization and its application to information management and information systems. Students learn about production systems, quality control, supply chain management, and work design, all through a quantitative and analytical lens. The course emphasizes how industrial engineering principles can be applied to optimize information systems, improve processes, and enhance organizational efficiency. This course focuses on optimization techniques and quantitative methods for system design and improvement, with applications in information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (60%) • Final Examination (40%)

1.9. Business data analysis on Excel, Tableau and Matlab

Course Title	Business data analysis on Excel, Tableau and Matlab
Course No.	A1447000220
Semester	2-1
Credit	2.5 (3.75 ECTS)
Course Hours	40
Course Description	This course provides a comprehensive study of business data analysis using Microsoft Excel, Tableau, and Matlab, focusing on practical techniques for data processing, analysis, and visualization. Students learn advanced Excel functions for data manipulation and analysis, interactive data visualization using Tableau to create dashboards and visual analytics, and numerical computations and algorithm implementation using Matlab for statistical modeling and predictive analytics. Key topics include data collection and preprocessing, statistical analysis, regression modeling, and data visualization. The course emphasizes how these tools can be used for information management, business intelligence, and data-driven decision-making. This

	course provides essential skills for analyzing and managing business data using spreadsheet, visualization, and computational technology, with applications in data analysis and information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

1.10. Probability Theory and Mathematical Statistics

Course Title	Probability Theory and Mathematical Statistics
Course No.	A1501000070
Semester	2-1
Credit	3.5 (5.25 ECTS)
Course Hours	56
Course Description	This course provides a comprehensive introduction to probability theory and mathematical statistics, which are fundamental for data analysis and machine learning. Students learn about probability distributions, statistical inference, hypothesis testing, regression analysis, and experimental design. The course emphasizes practical applications to data science, predictive modeling, and decision-making. This course provides essential statistical tools for data analysis and machine learning, forming a core component of mathematics for data analysis in computer science and data engineering.
Assessment	<ul style="list-style-type: none"> • Regular Grade (40%) • Mid-term Examination (30%) • Final Examination (30%)

1.11. Electronic Commerce

Course Title	Electronic Commerce
Course No.	A1443000040
Semester	2-1
Credit	1.75 (2.625 ECTS)
Course Hours	28
Course Description	This course provides a comprehensive introduction to electronic commerce, focusing on the application of information systems and technology to business transactions. Students learn about e-commerce business models, online transaction processing, security technologies, digital marketing, and supply chain management. The course emphasizes how information systems enable and enhance e-commerce operations, from customer interactions to supply chain management. This course provides knowledge of how information systems support electronic commerce and digital business.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

1.12. Specialty Introduction and Career Development plan

Course Title	Specialty Introduction and Career Development plan
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Course No.	A1443000240
Semester	2-1
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course provides a comprehensive introduction to the field of information management and information systems, covering key concepts, theories, and practical applications. Students learn about the role of information systems in organizations, current trends in information management technologies, and career opportunities in the field. The course emphasizes how information systems can be used to solve business problems and support decision-making. This course provides foundational knowledge for students pursuing careers in information systems and management.
Assessment	<ul style="list-style-type: none"> Regular Grade (100%)

1.13. Microeconomics

Course Title	Microeconomics
Course No.	A1449000340
Semester	2-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores microeconomics from a quantitative and computational perspective, emphasizing the mathematical foundations of economic theory and analysis. Students learn to model consumer behavior and production processes using mathematical techniques, apply optimization and probability theory to market problems, and use quantitative methods for policy analysis. Topics include game theory, dynamic programming, and statistical analysis of market data. This course focuses on the mathematical principles and techniques underlying microeconomic analysis, with applications in quantitative decision-making.
Assessment	<ul style="list-style-type: none"> Regular Grade (45%) Mid-term Examination (25%) Final Examination (30%)

1.14. Business Data Management and Information System

Course Title	Business Data Management and Information System
Course No.	A1443000110
Semester	2-1
Credit	2.75 (4.125 ECTS)
Course Hours	44
Course Description	This course provides a comprehensive introduction to business data management and information systems, focusing on the design, implementation, and management of information systems for business environments. Students learn database modeling and theory, including relational algebra and SQL, database structures such as index structures and files, physical

	storage and memory hierarchy. The course also covers business intelligence, analytics, and data security and privacy. This course provides foundational knowledge for designing and managing business information systems, aligning with the fundamentals of databases in computer science.
Assessment	<ul style="list-style-type: none"> • Regular Grade (60%) • Final Examination (40%)

1.15. An Introduction to Database System

Course Title	An Introduction to Database System
Course No.	A1443000150
Semester	2-1
Credit	2.25 (3.375 ECTS)
Course Hours	36
Course Description	This course provides a comprehensive introduction to database systems, focusing on the design, implementation, and management of relational databases. Students learn database modeling and theory, relational algebra and SQL query language, database normalization and schema design, and transaction management. The course also covers database structures such as index structures and files, physical storage and memory hierarchy, concurrency control, and database system architecture. This course provides foundational knowledge for designing and managing information systems, covering core concepts of database fundamentals in computer science.
Assessment	<ul style="list-style-type: none"> • Regular Grade (40%) • Mid-term Examination (25%) • Final Examination (35%)

1.16. Statistics

Course Title	Statistics
Course No.	A1448000171
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive introduction to statistics with a focus on computational and quantitative methods for data analysis. Students learn to apply statistical techniques to solve problems in information management and computer science, including hypothesis testing, regression analysis, and predictive modeling. The course emphasizes data visualization and interpretation, preparing students to analyze and make decisions based on quantitative data. This course focuses on the statistical principles and techniques underlying data analysis and decision-making, with applications in information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.17. Macro economics

Course Title	Macro economics
Course No.	A1449000350
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores macroeconomics from a quantitative and computational perspective, emphasizing the mathematical foundations of macroeconomic theory and analysis. Students learn to model macroeconomic systems using mathematical techniques, apply optimization and probability theory to economic policy analysis, and use quantitative methods for macroeconomic forecasting. Topics include mathematical modeling of economic growth, dynamic systems analysis, and statistical analysis of macroeconomic data. This course focuses on the mathematical principles and techniques underlying macroeconomic analysis, with applications in quantitative policy analysis.
Assessment	<ul style="list-style-type: none"> • Regular Grade (40%) • Mid-term Examination (25%) • Final Examination (35%)

1.18. Technological Economics

Course Title	Technological Economics
Course No.	A1447000030
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores technological economics from a quantitative and computational perspective, with a specific focus on software technology and digital products. Students learn to model technology adoption in software markets, apply cost-benefit analysis using quantitative methods for software development projects, and use optimization techniques for technology investment decisions in the software industry. Key topics include decision analysis, risk assessment, and forecasting of technological trends in digital environments. The course emphasizes the application of economic principles to software development, IT infrastructure investment, and digital product innovation. This course focuses on the mathematical principles and techniques underlying technological economic analysis, with applications in technology investment decisions and software industry economics.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.19. Management of Innovation and Entrepreneurship

Course Title	Management of Innovation and Entrepreneurship
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Course No.	A1440010010
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive study of innovation management and entrepreneurship, focusing on how information systems and technology can drive innovation and business growth. Students learn about innovation strategies, entrepreneurial behavior, business strategy for startups, and decision-making processes for innovation projects. The course emphasizes how information systems can be used to support innovation, from idea generation to product development and commercialization. This course provides knowledge of how information systems can enable and enhance innovation and entrepreneurship in organizational settings.
Assessment	<ul style="list-style-type: none"> • Regular Grade (60%) • Mid-term Examination (20%) • Final Examination (20%)

1.20. Information resource organization and management

Course Title	Information resource organization and management
Course No.	A1443000130
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive study of information resource organization and management, focusing on the principles and practices of managing information resources in organizational settings. Students learn about information classification, metadata standards, digital library management, knowledge management, and information resource planning. The course emphasizes how to organize and manage information resources effectively to support decision-making and organizational performance. This course provides foundational knowledge for managing and organizing information resources in various contexts.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.21. Big data and Internet plus

Course Title	Big data and Internet plus
Course No.	A1443000410
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive study of big data and Internet plus, focusing on the technologies and applications of large-scale data processing

	and analysis in the context of Internet-based business models. Students learn about big data collection and preprocessing, statistical analysis, machine learning, and data visualization. The course emphasizes how Internet plus (the integration of Internet technology with traditional industries) leverages big data to drive innovation and business transformation. This course provides skills for managing and analyzing large-scale information systems in the digital economy, with applications in data engineering and AI.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.22. System Engineering

Course Title	System Engineering
Course No.	A1441000030
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive introduction to system engineering, focusing on the principles and methodologies of designing, implementing, and managing complex systems. Students learn about systems analysis, requirements engineering, system design, integration, and testing. The course emphasizes how system engineering principles can be applied to information systems, ensuring that information systems are designed to meet organizational needs and objectives. This course provides knowledge of how to design and manage complex information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.23. Business Big Data Analysis and Application

Course Title	Business Big Data Analysis and Application
Course No.	A1447000150
Semester	2-2
Credit	2.5 (3.75 ECTS)
Course Hours	40
Course Description	This course provides a comprehensive study of business big data analysis and applications, focusing on advanced techniques for analyzing and interpreting large-scale business data using R, Python, and Spark. Students learn big data collection and preprocessing using Spark's distributed computing framework, statistical analysis and machine learning with R and Python, and large-scale data processing and analysis. Key topics include distributed data processing, machine learning on big data, data visualization for large datasets, and real-time data analysis. The course emphasizes predictive modeling, forecasting, and ethical considerations in big data. This course provides skills for managing and analyzing large-scale business information

	systems using R, Python, and Spark, covering topics highly relevant to data engineering and AI applications.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.24. Website Designing

Course Title	Website Designing
Course No.	A1443000190
Semester	2-2
Credit	2.25 (3.375 ECTS)
Course Hours	36
Course Description	This course provides a comprehensive introduction to website designing and web development, focusing on the principles and technologies for creating effective web applications. Students learn HTML, CSS, and JavaScript fundamentals, responsive design, user interface principles, and web development frameworks. The course also covers web accessibility, usability, security, and performance optimization. This course provides skills for designing and developing web-based information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

1.25. The Cours Project of Technological Economics

Course Title	The Cours Project of Technological Economics
Course No.	A1447100040
Semester	2-2
Credit	0.75 (1.125 ECTS)
Course Hours	12
Course Description	This course provides a practical project-based learning experience in technological economics, focusing on quantitative analysis and economic evaluation of software and digital technology projects. Students apply mathematical models to perform cost-benefit analysis, risk assessment, and economic evaluation of technology investments in software development, IT infrastructure, and digital products. The course emphasizes using quantitative methods to make informed decisions about technological innovation projects in the digital economy. Through hands-on projects, students learn to evaluate the economic feasibility of software solutions, assess the return on investment (ROI) of IT projects, and make data-driven decisions about technology adoption. This course provides practical experience in applying mathematical and economic principles to real-world software engineering and technological problems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Mid-term Examination (15%)

	• Final Examination (15%)
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1.26. Data analysis and data mining

Course Title	Data analysis and data mining
Course No.	A1443000160
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive study of data analysis and data mining, focusing on the techniques and methods used to extract knowledge from large datasets. Students learn about data collection, preprocessing, statistical analysis, data visualization, and machine learning algorithms for data mining. The course emphasizes how data mining techniques can be applied to information management, enabling organizations to derive actionable insights from their data. This course provides skills for analyzing and managing large-scale information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.27. Operations Research

Course Title	Operations Research
Course No.	A1441000130
Semester	2-2
Credit	3.5 (5.25 ECTS)
Course Hours	56
Course Description	This course introduces operations research from a mathematical and computational perspective, focusing on optimization techniques and their applications in business and management. Students learn linear programming, integer programming, network optimization, and queuing theory. The course emphasizes practical applications to decision-making processes in business environments. This course provides essential optimization and decision analysis tools for information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.28. Object-oriented Programming (JAVA)

Course Title	Object-oriented Programming (JAVA)
Course No.	A1443000460
Semester	3-1
Credit	2.5 (3.75 ECTS)
Course Hours	40

Course Description	This course provides a comprehensive introduction to object-oriented programming using the Java language, with a focus on software design and development. Students learn object-oriented principles, Java programming fundamentals, data structures, and graphical user interface development. The course also covers database connectivity, web services, and software testing techniques. This course provides foundational skills for developing information management applications.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.29. Management Information Systems

Course Title	Management Information Systems
Course No.	A1443000070
Semester	3-1
Credit	2.5 (3.75 ECTS)
Course Hours	40
Course Description	This course provides a comprehensive introduction to management information systems, focusing on the design, implementation, and management of information systems for organizational efficiency and decision-making. Students learn systems analysis, database management, business intelligence, and project management for information systems. The course also covers ethical considerations and security in information management. This course provides skills for managing and analyzing organizational information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.30. Intelligent Wearable Technology and Application

Course Title	Intelligent Wearable Technology and Application
Course No.	A0701040060
Semester	3-1
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course provides an introduction to intelligent wearable technology and its applications, focusing on the hardware aspects of wearable devices. Students learn about sensor technology, embedded systems design, data acquisition from physical sensors, signal processing, and wireless communication for wearable devices. The course emphasizes the hardware components and design principles of intelligent wearable technology, including microcontrollers, sensor integration, power management, and circuit design. This course provides knowledge of how to design and implement hardware systems for wearable technology, focusing on the physical aspects of these devices rather than just software or data management.

Assessment	<ul style="list-style-type: none"> • Regular Grade (60%) • Mid-term Examination (20%) • Final Examination (20%)
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1.31. Business Data Analysis and Application

Course Title	Business Data Analysis and Application
Course No.	A1443000270
Semester	3-1
Credit	1.5 (2.25 ECTS)
Course Hours	24
Course Description	This course provides an in-depth study of business data analysis and application, focusing on the techniques and methods used to analyze business data and support decision-making. Students learn about business data collection, preprocessing, statistical analysis, data visualization, and machine learning for business forecasting. The course emphasizes how data analysis can be applied to various business functions, such as marketing, finance, and operations. This course provides skills for analyzing and managing business information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

1.32. Information system analysis and design

Course Title	Information system analysis and design
Course No.	A1443000020
Semester	3-1
Credit	1.75 (2.625 ECTS)
Course Hours	28
Course Description	This course provides a comprehensive introduction to information system analysis and design, focusing on the principles and methodologies used to develop effective information systems. Students learn about systems analysis, requirements engineering, data modeling, process modeling, and system architecture design. The course emphasizes user-centered design principles and practical implementation strategies for information systems. This course provides essential knowledge for designing and developing information systems that meet organizational needs.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.33. Decision making model and optimization

Course Title	Decision making model and optimization
Course No.	A1443000220
Semester	3-1

Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course focuses on decision-making models and optimization techniques from a quantitative perspective. Students learn to apply mathematical programming methods, including linear programming, integer programming, and dynamic programming, to solve complex decision problems. The course also covers heuristic algorithms and optimization under uncertainty. This course emphasizes the mathematical principles and algorithmic approaches to decision-making and optimization, with applications in information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.34. Principle & application of electronic building blocks

Course Title	Principle & application of electronic building blocks
Course No.	A1307000500
Semester	3-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive introduction to electronic building blocks, focusing on the principles and applications of electronic circuits and hardware systems. Students learn about digital and analog electronics, microcontrollers, sensor technologies, and wireless communication protocols from a hardware perspective. The course emphasizes hands-on application design using electronic building blocks, covering topics such as circuit design, PCB layout, embedded systems, IoT devices, and circuit simulation. This course provides knowledge of electronic hardware systems and their integration into information networks, with applications in digital communication, focusing on the physical implementation aspects of electronic systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

1.35. Enterprise Digital Practice

Course Title	Enterprise Digital Practice
Course No.	A1440030060
Semester	3-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive introduction to enterprise digital practice, focusing on the strategies and technologies used to transform traditional business processes into digital operations. Students learn about

	digital transformation, enterprise resource planning systems, business process automation, digital marketing, and data analytics. The course emphasizes practical applications of digital technologies to improve operational efficiency and drive business growth. This course provides knowledge of how digital technologies can be leveraged to enhance enterprise information systems and processes.
Assessment	<ul style="list-style-type: none"> • Regular Grade (60%) • Mid-term Examination (20%) • Final Examination (20%)

1.36. Cryptography and Computer Security

Course Title	Cryptography and Computer Security
Course No.	A1443000090
Semester	3-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course covers the fundamental principles and practices of cryptography and computer security. Students learn about symmetric and asymmetric encryption methods, digital signatures, hash functions, and network security protocols. The course also addresses topics such as authentication, access control, and malware detection. This course focuses on the theoretical foundations and practical applications of computer security, with applications in information management.
Assessment	<ul style="list-style-type: none"> • Regular Grade (45%) • Mid-term Examination (25%) • Final Examination (30%)

1.37. data structure

Course Title	data structure
Course No.	A1443000370
Semester	3-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course focuses on the design and analysis of fundamental data structures and their associated algorithms. Students learn about essential data structures such as arrays, linked lists, stacks, queues, trees, and graphs, along with algorithms for searching, sorting, and memory management. The course emphasizes algorithmic complexity analysis and efficiency considerations. This course is foundational to efficient algorithm design and implementation, providing the building blocks for information management applications.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (20%) • Final Examination (30%)

1.38. Social Media and Social Network

Course Title	Social Media and Social Network
Course No.	A1443000390
Semester	3-1
Credit	1.75 (2.625 ECTS)
Course Hours	28
Course Description	This course explores social media and social networks from a computational perspective, focusing on algorithms and techniques used in analyzing and understanding network structures. Students learn to apply graph theory and network algorithms, including graph structures and algorithms (matrix vs. lists implementations), applications of BFS and DFS, and other traversal and search algorithms. Key topics include community detection, information diffusion, and network visualization. This course emphasizes algorithmic approaches to social network analysis and configuration, covering core algorithm design techniques and data structures relevant to computer science and data engineering.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

1.39. Comprehensive practical training

Course Title	Comprehensive practical training
Course No.	A1443200250
Semester	3-2
Credit	10.0 (15.0 ECTS)
Course Hours	160
Course Description	This course provides a comprehensive practical training experience through an industrial internship program. Students are placed in real-world business or technology organizations to apply their knowledge and skills in information management and information systems. The course emphasizes hands-on practice with industry-standard tools and methodologies, working on actual projects within an organizational setting. Students learn to collaborate effectively in professional teams, communicate with stakeholders, and solve real business problems using information technology. This course provides practical industrial experience in applying information management and information systems concepts in real-world environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Mid-term Examination (15%) • Final Examination (15%)

1.40. Information System and Website Development Practice

Course Title	Information System and Website Development Practice
Course No.	A1443200310
Semester	4-1

Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course provides a comprehensive introduction to information system and website development practice, focusing on the design, implementation, and deployment of web-based information systems. Students learn web development technologies, database integration, web services, and API development. The course emphasizes user-centered design principles, web security, and performance optimization. This course provides practical skills for developing and managing web-based information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

1.41. Computer Networks

Course Title	Computer Networks
Course No.	A1443000050
Semester	4-1
Credit	2.25 (3.375 ECTS)
Course Hours	36
Course Description	This course explores the principles and design of computer networks, focusing on network architectures, protocols, and performance analysis. Students learn about routing and switching algorithms, TCP/IP protocols, network security, and wireless communication. The course emphasizes algorithmic approaches to network configuration and optimization. This course provides knowledge on computer network design and management, with applications in information systems.
Assessment	<ul style="list-style-type: none"> • Regular Grade (45%) • Mid-term Examination (25%) • Final Examination (30%)

2. ACM-minor Subject Courses

2.1. Enterprise Culture & Business Ethics

Course Title	Enterprise Culture & Business Ethics
Course No.	A1444001310
Semester	1-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores enterprise culture and business ethics from an information management perspective, focusing on the ethical challenges and considerations in digital environments. Students learn about the alignment of organizational culture with information systems, ethical decision-making in information management, data privacy, and corporate social responsibility. The course emphasizes the importance of ethical practices in the design,

	implementation, and use of information systems. This course provides knowledge of ethical and cultural aspects of managing information systems in organizations.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

2.2. Psychology

Course Title	Psychology
Course No.	A1444000130
Semester	2-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores psychology from an information management perspective, focusing on how psychological principles apply to the design and use of information systems. Students learn about cognitive psychology, perception, attention, memory, and motivation in digital environments. The course emphasizes the social psychology of technology adoption and user experience design principles. This course provides knowledge of how psychological factors influence information system design, adoption, and use.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

2.3. Modern Chinese Verbal Communication

Course Title	Modern Chinese Verbal Communication
Course No.	A30W0000597
Semester	2-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides a comprehensive study of Modern Chinese verbal communication, focusing on the principles and techniques of effective communication in business and information management contexts. Students learn about oral communication, written communication, and digital communication in professional settings. The course emphasizes practical skills such as business presentation, negotiation, and persuasive communication. This course provides essential communication skills for managing information systems and working in information management teams.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (25%) • Final Examination (20%)

2.4. Organizational Behavior

Course Title	Organizational Behavior
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Course No.	A1444000140
Semester	2-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores organizational behavior from an information management perspective, focusing on how individuals, groups, and structures influence behavior within organizations. Students learn about motivation, leadership, group dynamics, and organizational culture in the context of information systems. The course emphasizes how organizational behavior principles apply to the design, implementation, and management of information systems. This course provides knowledge of how to manage and work with information systems teams effectively.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

2.5. Management Communication

Course Title	Management Communication
Course No.	A1444000040
Semester	3-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course focuses on management communication with a special emphasis on communication within information systems environments. Students learn about communication strategies for managers, including effective decision-making communication, crisis communication, and cross-cultural communication. The course emphasizes how information systems and technology can enhance communication in organizations. This course provides essential communication skills for managing information systems and teams in organizational settings.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

3. Other Courses

3.1. Military training

Course Title	Military training
Course No.	A2101000001
Semester	1-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides fundamental military training that fosters discipline, teamwork, and physical fitness. Students engage in practical exercises in

	military tactics, communication, and leadership, while also learning the importance of physical and mental resilience. The course emphasizes teamwork, decision-making under pressure, and the application of basic military principles, which can be relevant to managing information systems and teams in challenging environments.
Assessment	<ul style="list-style-type: none"> Regular Grade (100%)

3.2. Value, Morality and Rule of Law

Course Title	Value, Morality and Rule of Law
Course No.	A3508000038
Semester	1-1
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course explores the core concepts of values, morality, and the rule of law, focusing on their application in modern society and information management. Students learn to analyze ethical dilemmas and legal frameworks that apply to information management, such as data privacy, intellectual property, and cyber ethics. The course emphasizes critical thinking about the ethical and legal dimensions of information systems and technology, providing a foundation for responsible information management.
Assessment	<ul style="list-style-type: none"> Regular Grade (50%) Mid-term Examination (25%) Final Examination (25%)

3.3. Mental Health Education of College Students (1)

Course Title	Mental Health Education of College Students (1)
Course No.	A2401000050
Semester	1-1
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course introduces college students to mental health education, focusing on psychological well-being and resilience. Students learn about stress management, emotional regulation, and maintaining positive mental health in academic and professional environments. The course emphasizes self-awareness, emotional intelligence, and the importance of mental health for personal and professional success, which are essential skills for managing information systems and teams.
Assessment	<ul style="list-style-type: none"> Regular Grade (55%) Mid-term Examination (20%) Final Examination (25%)

3.4. College English(1)

Course Title	College English(1)
Course No.	A1711000001

Semester	1-1
Credit	3.5 (5.25 ECTS)
Course Hours	56
Course Description	This course provides a comprehensive introduction to College English, focusing on improving English language skills for academic and professional communication in information management contexts. Students develop proficiency in reading, writing, speaking, and listening in English, with an emphasis on business and technical communication. The course covers academic writing for research papers, professional email communication, and presentations, which are essential skills for managing information systems and working in international environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.5. Physical Education I

Course Title	Physical Education I
Course No.	A1801100231
Semester	1-1
Credit	0.75 (1.125 ECTS)
Course Hours	12
Course Description	This course provides an introduction to physical education, focusing on basic physical fitness and sports skills. Students engage in various physical activities designed to improve cardiovascular health, strength, and coordination. The course emphasizes the importance of physical well-being for academic and professional success, which is relevant to maintaining productivity and resilience in information management roles.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.6. Military Theory

Course Title	Military Theory
Course No.	A2101000011
Semester	1-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course introduces students to military theory and national defense, focusing on military strategy, tactics, and modern defense systems. Students learn about military history, defense policy, and the role of technology in modern warfare. The course emphasizes strategic thinking and decision-making under pressure, which are transferable skills for managing information systems and addressing complex information management challenges.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%)

	• Final Examination (25%)
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3.7. Health Education

Course Title	Health Education
Course No.	A2001000030
Semester	1-1
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course provides comprehensive health education, focusing on physical, mental, and social well-being. Students learn about healthy lifestyle choices, disease prevention, and stress management. The course emphasizes the importance of maintaining good health for academic and professional success, which is essential for managing information systems and performing effectively in information management roles.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (20%) • Final Examination (25%)

3.8. Entrance education

Course Title	Entrance education
Course No.	A2101200000
Semester	1-1
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course introduces new students to college life and academic expectations, with a focus on transition and adjustment. Students learn about university resources, academic policies, and study strategies. The course emphasizes time management, critical thinking, and communication skills, which are fundamental for success in information management and computer science-related programs.
Assessment	• Regular Grade (100%)

3.9. Practice of Ideological and Political Theory Course

Course Title	Practice of Ideological and Political Theory Course
Course No.	A3507000025
Semester	1-2
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course provides practical applications of ideological and political theory, focusing on real-world implementation of theoretical concepts. Students engage in fieldwork, case studies, and practical projects that apply ideological and political principles to contemporary social issues. The course emphasizes critical thinking, problem-solving, and communication skills,

	which are essential for managing information systems and working in organizational settings.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.10. College English(2)

Course Title	College English(2)
Course No.	A1711000002
Semester	1-2
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course continues to develop English language skills with a focus on advanced academic and professional communication in information management contexts. Students enhance their proficiency in research writing, technical communication, and presentation skills. The course covers specialized vocabulary for information systems, business communication strategies, and intercultural communication, which are essential for managing information systems and working in global environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.11. Physical Education II

Course Title	Physical Education II
Course No.	A1801100232
Semester	1-2
Credit	0.75 (1.125 ECTS)
Course Hours	12
Course Description	This course builds upon physical education fundamentals, focusing on intermediate physical fitness and sports skills. Students engage in various physical activities designed to improve endurance, strength, and coordination. The course emphasizes the importance of physical well-being for maintaining focus and productivity in academic and professional settings, which is relevant to managing information systems and performing effectively in information management roles.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.12. Introduction to Bachelor Program of Economic and Management

Course Title	Introduction to Bachelor Program of Economic and Management
Course No.	A1440030030
Semester	1-2
Credit	1.5 (2.25 ECTS)

Course Hours	24
Course Description	This course provides an introduction to the Bachelor Program of Economic and Management, focusing on the interdisciplinary nature of economic and management principles. Students learn about economic theory, business management, and information systems integration. The course emphasizes how economic and management knowledge can be applied to information management and decision-making processes in organizational settings.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.13. Theory hotspot and current? affair analysis

Course Title	Theory hotspot and current? affair analysis
Course No.	A3000000224
Semester	1-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course explores current theoretical hotspots and contemporary affairs from an analytical perspective, focusing on critical thinking and problem-solving. Students learn to analyze complex issues, evaluate information, and develop evidence-based arguments. The course emphasizes information literacy, analytical skills, and effective communication, which are essential for managing information systems and decision-making in dynamic environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (25%) • Final Examination (20%)

3.14. Outline of Modern Chinese History

Course Title	Outline of Modern Chinese History
Course No.	A3506000013
Semester	1-2
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course provides an overview of modern Chinese history, focusing on key events, social transformations, and cultural changes. Students learn about China's historical context and its impact on contemporary society and business environments. The course emphasizes understanding historical patterns and their implications for information management and decision-making in global contexts.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.15. Situation and Policy (1)

Course Title	Situation and Policy (1)
Course No.	A3508000011
Semester	1-2
Credit	0.5 (0.75 ECTS)
Course Hours	8
Course Description	This course focuses on analyzing current national and international situations, policies, and their implications. Students learn about policy analysis, decision-making processes, and the impact of policies on business and society. The course emphasizes critical thinking, information evaluation, and the ability to synthesize complex information, which are essential skills for managing information systems and working in policy-related environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.16. Physical Education III

Course Title	Physical Education III
Course No.	A1801100233
Semester	2-1
Credit	0.75 (1.125 ECTS)
Course Hours	12
Course Description	This course continues to build on physical education skills, focusing on advanced physical fitness and specialized sports techniques. Students engage in challenging physical activities designed to enhance overall fitness, coordination, and sports performance. The course emphasizes the importance of physical health for maintaining mental clarity and productivity, which is relevant to managing information systems and performing effectively in information management roles.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.17. Highway Traffic and driving techniques

Course Title	Highway Traffic and driving techniques
Course No.	A1215000191
Semester	2-1
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course provides comprehensive training in highway traffic safety and driving techniques, focusing on responsible and safe driving practices. Students learn about traffic laws, vehicle maintenance, and defensive driving strategies. The course emphasizes decision-making under pressure, risk assessment, and spatial awareness, which are transferable skills for managing

	information systems and addressing complex challenges in dynamic environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (65%) • Mid-term Examination (15%) • Final Examination (20%)

3.18. Philosophical Principle of Marxism

Course Title	Philosophical Principle of Marxism
Course No.	A3505000018
Semester	2-1
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course explores the philosophical principles of Marxism, focusing on dialectical materialism, historical materialism, and social analysis. Students learn to apply Marxist philosophical concepts to analyze social, economic, and political issues. The course emphasizes critical thinking, historical perspective, and systemic analysis, which are essential for understanding complex information systems and organizational dynamics.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.19. College English(3)

Course Title	College English(3)
Course No.	A1711000003
Semester	2-1
Credit	3.5 (5.25 ECTS)
Course Hours	56
Course Description	This course focuses on advanced English language skills for specialized academic and professional communication in information management. Students develop proficiency in technical writing, research communication, and professional presentation skills. The course covers specialized vocabulary for information systems, data analysis, and technology-related topics, preparing students for communication in information management and computer science contexts.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.20. Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era

Course Title	Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era
Course No.	A3507000028

Semester	2-1
Credit	3.0 (4.5 ECTS)
Course Hours	48
Course Description	This course explores Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, focusing on its application to contemporary Chinese society and global contexts. Students learn about national development strategies, governance principles, and modernization approaches. The course emphasizes understanding policy frameworks and their implications for information management and business environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.21. The History of the Development of Socialism

Course Title	The History of the Development of Socialism
Course No.	A3507000027
Semester	2-2
Credit	1.0 (1.5 ECTS)
Course Hours	16
Course Description	This course traces the historical development of socialism from its origins to the present, focusing on key thinkers, movements, and transformations. Students learn about the evolution of socialist theories and their practical applications in different historical contexts. The course emphasizes historical analysis, critical thinking, and understanding social change, which are relevant to managing information systems in evolving organizational and social environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (25%) • Final Examination (20%)

3.22. music appreciation

Course Title	music appreciation
Course No.	A30W0000092
Semester	2-2
Credit	2.0 (3.0 ECTS)
Course Hours	32
Course Description	This course introduces music appreciation through the study of various musical styles, genres, and historical periods. Students learn to analyze and interpret musical compositions, understand musical structures, and appreciate the cultural context of music. The course emphasizes creativity, cultural awareness, and aesthetic judgment, which are valuable skills for designing user-centric information systems and enhancing user experience.
Assessment	<ul style="list-style-type: none"> • Regular Grade (55%) • Mid-term Examination (25%)

	• Final Examination (20%)
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3.23. Physical Education IV

Course Title	Physical Education IV
Course No.	A1801100234
Semester	2-2
Credit	0.75 (1.125 ECTS)
Course Hours	12
Course Description	This course focuses on advanced physical fitness and sports performance, building on previous physical education training. Students engage in high-intensity physical activities and sports-specific training designed to enhance endurance, strength, and coordination. The course emphasizes physical resilience, teamwork, and mental toughness, which are essential for managing information systems and performing effectively in high-pressure work environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.24. Situation and Policy (2)

Course Title	Situation and Policy (2)
Course No.	A3508000021
Semester	2-2
Credit	0.5 (0.75 ECTS)
Course Hours	8
Course Description	This course continues to analyze current national and international situations and policies, focusing on their implications for business and society. Students learn about policy formulation, implementation, and evaluation. The course emphasizes strategic thinking, information analysis, and the ability to adapt to changing policy environments, which are essential skills for managing information systems and decision-making in dynamic business settings.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.25. Mao's Thought and the theoretical system of socialism with Chinese characteristics Introduction

Course Title	Mao's Thought and the theoretical system of socialism with Chinese characteristics Introduction
Course No.	A3507000020
Semester	2-2
Credit	3.0 (4.5 ECTS)
Course Hours	48

Course Description	This course explores Mao Zedong Thought and the theoretical system of socialism with Chinese characteristics, focusing on their development, core principles, and applications. Students learn about China's revolutionary history, socialist construction, and reform and opening-up policies. The course emphasizes understanding the theoretical foundations of China's development and their implications for information management in Chinese business environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (50%) • Mid-term Examination (25%) • Final Examination (25%)

3.26. Situation and Policy (3)

Course Title	Situation and Policy (3)
Course No.	A3508000031
Semester	3-2
Credit	0.5 (0.75 ECTS)
Course Hours	8
Course Description	This course focuses on analyzing current national and international situations and policies, with a special emphasis on their impact on global business and information management. Students learn about emerging policy trends, global governance, and the role of information in policy development. The course emphasizes information literacy, global perspective, and the ability to synthesize complex information, which are essential skills for managing information systems in international business environments.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)

3.27. Situation and Policy (4)

Course Title	Situation and Policy (4)
Course No.	A3508000041
Semester	4-1
Credit	0.5 (0.75 ECTS)
Course Hours	8
Course Description	This course continues to analyze current national and international situations and policies, focusing on their long-term implications for business and information management. Students learn about policy forecasting, risk assessment, and strategic planning. The course emphasizes strategic thinking, information analysis, and decision-making in complex and uncertain environments, which are essential skills for managing information systems and driving organizational success.
Assessment	<ul style="list-style-type: none"> • Regular Grade (70%) • Final Examination (30%)