UNIVERSITAS DIPONEGORO
The Excellent Research University

DIPONEGORO international office

Description of Course Catalogue: Spring Semester

DEEP

Diponegoro Exchange Experience Programme

2026

PREPARED BY
Diponegoro International Office

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Faculty of Social and Political Sciences

Public Administration

Course Title. : **Comparative Public Administration**

Course Code : SAP1624401

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course studies government systems and public administration systems in providing services with a comparative approach. Key topics include the variations of state administration systems worldwide, the transformation of state administration systems, and layering within the structure of public administration.

Expected Learning Outcomes:

1. Able to understand the government system and Public Administration system in providing services with a comparative approach.
2. Able to analyze the state administration system based on the government system currently used
3. Able to explain and analyze the relationship between the environment and the administrative system model in the country.

Course Title. : **Policy Process**

Course Code : SAP1624402

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course provides a comprehensive exploration of the policy process within the framework of comparative public administration and governance. It examines how public policies are formulated, adopted, implemented, and evaluated across different political and administrative systems. The course delves into the interplay between various institutional actors, including government agencies, civil society, political parties, and the public, in shaping policy outcomes. Through a comparative lens, students will gain an in-depth understanding of the complexities and challenges inherent in public service delivery and administrative reform. The course aims to equip students with the analytical tools necessary to critically assess policy dynamics and their implications for effective governance and public service.

Expected Learning Outcomes:

1. Able to understand the public policy cycle, which includes agenda setting, policy formulation, implementation, and evaluation.
2. Able to analyze the process of agenda setting, policy formulation, policy politics, policy implementation, and the evaluation process.
3. Able to analyze the impact of policy evaluation.

Course Title. : **Political Economy of Policy Reform**
Course Code : SAP1624403
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course explores the relationship between politics and economics in the context of policy reforms. Students will analyze the dynamics, challenges, and implications of policy reform initiatives, considering the various political and economic factors that shape the decision-making process.

Expected Learning Outcomes:
1. Able to understand the policy change process
2. Able to understand policy actors and interests
3. Able to analyze coalition strategies to encourage policy reform

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Course Title. : **Public Service Management**
Course Code : SAP1624404
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course is designed to provide students with a comprehensive understanding of the principles, theories, and practices of public service management. It examines the fundamental concepts of service delivery, including the legal and regulatory frameworks that govern public services. The course delves into the evolution of public service paradigms, from traditional bureaucracy to modern citizen-centric approaches. Students will analyze various aspects of service management, such as the development of professional human resources, the cultivation of a service-oriented culture, and the implementation of quality standards. The ultimate goal is to equip students with the knowledge and skills necessary to design and implement innovative public services that meet citizen expectations and achieve high levels of satisfaction.

Expected Learning Outcomes:
1. Able to explain the fundamental concepts of service management, including the legal and regulatory frameworks governing public services.
2. Able to identify and analyze the evolution of public service paradigms using relevant concepts, theories, and indicators. This includes understanding the scope of good public services and the establishment of service standards.
3. Able to critically analyze human resource management models for the professional implementation of public services. This also involves examining the impact of service culture and public service quality on achieving customer satisfaction and fostering innovative public services.

Course Title. : **Public Governance**
Course Code : SAP1624405
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course provides a comprehensive examination of public governance and institutional design within the framework of public administration. It explores the foundational concepts of institutional design, capacity, and effectiveness, both in formal and informal settings. Students will analyze how institutional structures shape policy outcomes, service delivery, and public accountability. The course emphasizes a critical and analytical approach to understanding the complexities of institutional dynamics, focusing on how institutions can be designed and managed to enhance public sector performance and good governance. Through case studies and theoretical discussions, students will develop the skills to evaluate institutional frameworks and propose effective governance reforms.

Expected Learning Outcomes:

1. Able to understand the principles of institutional design.
2. Able to analyze institutional capacity.
3. Able to analyze the effectiveness of both formal and informal institutions.

Course Title. : **Beaucratic Reform and Innovation**
Course Code : SAP1624407
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course offers an in-depth analysis of bureaucratic reform and innovation in public administration. It begins by examining the historical paradigms and persistent challenges associated with administrative reform. The curriculum then delves into a comparative analysis of different reform strategies, including those related to human resources, institutional restructuring, public service delivery, bureaucratic leadership, and public policy. The course aims to equip students with the analytical and practical skills needed to design, implement, and evaluate effective reform initiatives. By studying both successes and failures, students will develop a critical understanding of the complexities involved in modernizing public bureaucracies to enhance efficiency, accountability, and public trust.

Expected Learning Outcomes:

1. Able to explain the paradigms and challenges of administrative reform.
2. Able to analyze the various strategies for administrative reform, including those related to human resources, institutional restructuring, public service, bureaucratic leadership, and public policy.
3. Able to formulate strategies for administrative reform.

Course Title. : **Development Planning and Monitoring**
Course Code : SAP1624408
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course explores the definition and importance of development planning, the prevailing planning paradigms within the planning system, and strategic planning in public institutions. Students are expected to develop plans in the form of programs or activities to address various issues arising in society, based on core competencies, while also being able to design evaluation indicators to assess the success of the programs and activities they have developed.

Expected Learning Outcomes:

1. Able to understand the Concept of Planning, Planning Paradigm and Top-down vs bottom-up, Centralized vs decentralized planning.
2. Able to explain development planning Oriented Growth vs Industry Oriented vs Equity Oriented
3. Able to analyze the Strategic Environment Based on Local Conditions Problems, Program and Activity Preparation: Development Planning System and Development Supervision

Course Title. : **Start-Up and Business Plan**
Course Code : SAB1624414
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
The Start-Up and Business Plan course is designed for undergraduate students to provide an understanding of the start-up world, entrepreneurship, and the methods for designing, writing, and preparing a comprehensive business plan. Its primary focus is on the development, planning, and execution of a successful business.

Expected Learning Outcomes:

Students are able to apply basic competencies in innovation and start-ups and apply innovation and creativity in forming start-ups.

Course Title. : **Portfolio Investment**
Course Code : SAB1624419
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
The Investment & Portfolio course is designed for undergraduate students to provide an understanding of the theories and practices of investment, as well as the methods for designing and managing an effective investment portfolio. Students will learn concepts and techniques used to make smart investment decisions and to diversify risk through an appropriate portfolio.

Expected Learning Outcomes:

1. Able to master investment concepts and decide on investment choices on financial assets from various existing investment alternatives
2. Able to analyze investment decisions
3. Able to draw relevant conclusions from the results of business issue analysis
4. Able to evaluate strategic financial decisions of the company

Course Title. : **Business Leadership**
Course Code : SAB1624417
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
The Business Leadership course is designed for undergraduate students to teach them the theories and practices of effective leadership in the business world. Students will learn various concepts and skills necessary to become successful leaders within an organization.

Expected Learning Outcomes:

1. Able to understand the role of the leader and the power that the leader has to move the members of the organization, through the leader's decisions, by using interpersonal skills.
2. Able to foster the motivation of the members of the organization.

Course Title. : **International Business**
Course Code : SAB1624633 Semester : Spring (Genap)
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course provides students with an understanding and mastery of the procedures for making proposals in accordance with applicable academic regulations, provides a way to present the contents of the proposal and arguments for the contents of the proposal in seminars.

Expected Learning Outcomes:

1. Have knowledge of cross-country business management
2. Able to analyze the factors and problems faced and combine the resources available to be able to compete at the global level.

Course Title. : **Business Ethics**

Course Code : SAB1624632 Semester : Spring (Genap)

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Business Ethics is a course designed for undergraduate students to equip them with an understanding of how to address ethical challenges often encountered in business decision-making. Students will explore various ethical issues related to business, including corporate social responsibility, fairness, corruption, conflicts of interest, and more.

Expected Learning Outcomes:

1. Have knowledge of management regarding moral and ethical standards.
2. Able to analyze factors and problems faced in ethical business management.
3. Able to make effective decisions based on morals and ethics to compete at the global level.

Course Title. : **Knowledge & Innovation Management**

Course Code : SAB1624630 Semester : Spring (Genap)

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

a course that emphasizes the implementation of innovation in business organizations and how to initiate business innovation within enterprises designed to be innovation-driven. Discussions focus on the steps and challenges of implementing innovation in business organizations, as well as consumer and organizational member responses to these innovations.

Expected Learning Outcomes:

1. Students are aware of the importance of innovation in creating added value and increasing the competitiveness of organizations and start-up companies.
2. Students are able to understand, explain, and analyze the factors and concepts surrounding innovation in organizations and consumer responses to innovation.
3. Students are able to understand, analyze, and explain a case study of a small business that is or will implement innovation and help the business formulate an innovation strategy.
4. Students are able to formulate and present the results of discussions on starting a business based on innovation/technology produced by researchers at universities.

Course Title. : **Strategic Management**

Course Code : SAB1624629 Semester : Spring (Genap)

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

this course is a course designed for undergraduate students to provide an understanding of strategic planning and decision-making in managing organizations. Students will learn concepts and tools used to identify, formulate, and implement effective business strategies.

Expected Learning Outcomes:

Able to analyze the company's profile and external environment, and able to formulate the company's strategic plan

Course Title. : **Cultural Communication**
Course Code : SIK1624411
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

The Cultural Communication course is designed to provide an understanding of the conceptual aspects in cultural communication studies. These conceptual aspects cover discussions on the basic concepts of intercultural communication, barriers to intercultural communication, cultural identity, intercultural conflict, cultural adaptation, cultural acculturation, the relationship between communication and culture, language in intercultural communication, cultural anxiety and uncertainty, intercultural communication ethics, intercultural communication competence, components of intercultural communication, improving intercultural communication skills, and applying intercultural communication knowledge. Students will delve into important issues in cultural communication, identify problems, and consider alternative solutions. By the end of the course, students are expected to be able to explain, understand, and analyze various issues related to cultural communication phenomena. They should also be able to apply theoretical knowledge to conduct research in cultural communication.

Expected Learning Outcomes:

Students will demonstrate tolerance and sensitivity toward cultural diversity, explain, apply, and analyze concepts and theories of cultural communication, identify cultural communication issues, and design solutions to address these problems based on established principles, procedures, and scientific ethics.

Course Title. : **Gender Communication**

Course Code : SIK1624413

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

The Gender Communication course focuses on the fundamental concepts of gender and gender communication. It also explores feminist communication theories, feminist research methodologies, various feminist movements, and the representation of women in media communication and strategic communication. The course begins with an introduction to the concepts of gender and gender communication, followed by discussions on various feminist communication theories and methodologies. Students will examine different feminist movements, including liberal feminism, radical feminism, Marxist-socialist feminism, psychoanalytic feminism, existential feminism, postmodern feminism, multicultural-global feminism, and ecofeminism. The course concludes with an exploration of contemporary gender issues and the representation of women in media communication and strategic communication.

Expected Learning Outcomes:

1. Students will be able to demonstrate tolerance and sensitivity to gender diversity.
2. They will be able to explain, apply, and analyze the concepts and theories of gender communication in relation to media communication and strategic communication studies.
3. Students will be able to identify problems in the context of gender communication within media and strategic communication studies.
4. Furthermore, students will be able to design solutions to address gender-related issues in media and strategic communication based on established scientific principles, methods, and ethics.

Course Title. : **Sociology of Media and Network Society**
Course Code : SIK1624601
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course addresses the relationship between media, society, and technology in a networked society. Students will examine sociological theories related to media influence, social interactions, and the impact of digital communication on culture and identity, including topics such as digital labor, cyberculture, online identity, political contestation, and ethical challenges in online interactions.

Expected Learning Outcomes:

1. Students will have tolerance and sensitivity to diversity seen from the perspective of media sociology theory in the digital era
2. Able to explain, apply, and analyze concepts and theories in media sociology
3. Able to apply and practice logical, critical, systematic, analytical, and innovative thinking in designing works in the form of thoughts about how networked society interacts with media
4. Able to identify communication problems in networked society related to the use of mainstream and digital media
5. Able to design solutions to overcome problems in the field of digital media sociology based on scientific rules, procedures, and ethics

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Course Title. : **Corporate Communication**
Course Code : SAP1624407
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
The Corporate Communication course aims to provide an in-depth understanding of corporate communication strategies in various contexts, including commercial, social, and political settings. Students will learn to analyze, evaluate, and create effective strategic communication designs to achieve organizational goals. The course also focuses on developing systematic and innovative strategic communication works, media content, and communication research, while guiding students to formulate strategic communication plans in the fields of marketing and corporate communication.

Expected Learning Outcomes:

1. Students will be able to analyze, evaluate, and create strategic communication designs in commercial, social, and political contexts.
2. They will develop the ability to produce strategic communication works, media content, and communication research that are both systematic and innovative.
3. Additionally, students will be able to formulate strategic communication activity plans in the fields of marketing communication and corporate communication.

Course Title. : **Environmental Communication**
Course Code : SIK1624610
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

The Environmental Communication course aims to develop a deep understanding of the complex interactions between humans and nature. Through this learning, students will be able to demonstrate tolerance and sensitivity to the cruelty within this relationship, and accurately identify emerging environmental communication issues. They will be trained to design solutions based on scientific and ethical principles, and to gather and analyze information to plan, produce, and distribute messages that impact environmental conservation efforts. In the process, students will practice logical, critical, systematic, analytical, and innovative thinking in designing environmental communication works in both media and research contexts, preparing them to face the complex challenges faced in this field.

Expected Learning Outcomes:

1. Students are able demonstrate tolerance and sensitivity to diversity in the relationship between humans and nature.
2. Students are able identify environmental communication problems.
3. Students are able design solutions to address environmental communication issues based on scientific principles, procedures, and ethics.
4. Students are able identify, collect, process, and use information to plan, produce, and distribute messages for environmental conservation.
5. Students are able implement and practice logical, critical, systematic, analytical, and innovative thinking in designing environmental communication works, media content, and environmental communication research.

Course Title. : **Photo journalism**

Course Code : SIK1624404

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course focuses on developing students' skills to analyze, evaluate, and create photographic works within a journalistic context. Students will explore the production of photojournalistic works across various media platforms and engage in communication research with a humanistic approach through effective photojournalism practices. The course equips students with the ability to produce systematic and innovative photojournalistic content, serving as a crucial element in the creative content domain within the multimedia ecosystem.

Expected Learning Outcomes:

1. Students will be able to analyze, evaluate, and create impactful photographic works in the context of journalism.
2. They will demonstrate the ability to develop photojournalistic projects, media content, and communication research with a humanistic perspective.
3. Students will also acquire the skills to produce systematic and innovative photographic works for journalism, media content, and communication research.
4. Furthermore, they will be capable of conceptualizing and managing media activities, with a focus on photography and creative content within the multimedia ecosystem.

Course Title. : **Social Media Content Production**
Course Code : SAP1624405
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

The Social Media Content Production course explores the creation and dissemination of journalistic content, which includes the processes of research, processing, delivery, and presentation of information to the public, utilizing internet-based digital media and social media platforms. The course begins with conceptual and theoretical materials that provide an understanding of the definition, history, regulations, ethics, and various case studies related to social media content, grounded in the development of journalism. After the midterm, the course will focus on the evolving landscape of social media content, examining topics such as content creators, celebrity endorsements, social media influencers, and the production of content for social media platforms.

Expected Learning Outcomes:

1. Students will be able to demonstrate the ability to apply journalistic integrity, moral standards, and ethical considerations in producing content and managing media.
2. They will be proficient in analyzing, evaluating, and creating media content designs within journalistic contexts, as well as within non-journalistic or creative content frameworks.
3.Furthermore, students will acquire the skills to conceptualize and design media management activities, both journalistic and creative, within the broader multimedia ecosystem.
4. Additionally, they will be capable of effectively managing media operations, journalistic practices, and creative content activities, ensuring their alignment with the dynamic and multifaceted nature of digital media and social media platforms.

Course Title. : **Media and Democracy**
Course Code : SIP1624644
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

A Media and Democracy course explores the relationship between media, politics, and democratic processes. It examines how media systems, both traditional and digital, influence public opinion, political participation, and the functioning of democratic institutions. The course also investigates the role of media in shaping political discourse, addressing issues like media bias, freedom of expression, and the ethical responsibilities of journalists. Students will gain a deeper understanding of the complexities of media influence on democracy and develop critical skills to assess the role of media in both supporting and undermining democratic practices.

This course critically examines the interplay between media and democracy in contemporary society. Students will explore the central role of media in shaping democratic engagement, informing public debates, and fostering accountability. The course will delve into the history and development of media systems, the evolving role of digital and social media, and how media institutions interact with political power. Emphasis will be placed on understanding the ethical, social, and political implications of media's role in democracy, including the challenges of misinformation, media ownership, and the influence of media conglomerates on public policy.

Through case studies, media analysis, and theoretical frameworks, students will assess the extent to which media supports or undermines democratic ideals such as representation, participation, and equality. The course will also cover global perspectives on media and democracy, highlighting the role of media in different political systems, including authoritarian regimes, and how media can both empower and marginalize various groups within society.

Expected Learning Outcomes:

1. Students are expected to be able to understand issues related to democracy in Indonesia presented in the media and to enable students to critically analyze these issues.
2. Understanding the media does not only refer to conventional media such as newspapers, radio, and television, but also social media such as facebook, twitter, blogsphere, whatsapp, youtube, and so on.

Course Title. : **Contemporary Issues in Politics**
Course Code : SIP1624643
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

A Contemporary Issues in Politics course explores the most pressing political challenges and debates in the world today. It provides students with a comprehensive understanding of the current political landscape, analyzing the causes, impacts, and potential solutions to global and national political issues. The course covers a range of topics, including political ideologies, international relations, political movements, governance, and the impact of new technologies on politics. Students will critically assess the dynamics of power, democracy, and governance in the 21st century.

This course provides an in-depth exploration of contemporary political issues, both on a global and local scale. Students will examine political trends, ideologies, and policies shaping current global affairs, with a focus on understanding the interconnectedness of issues such as nationalism, populism, climate change, migration, social justice, and political polarization. The course combines theoretical frameworks with practical case studies, encouraging students to analyze the political forces at play in various countries and regions.

Expected Learning Outcomes:

students are able to understand various theoretical perspectives and levels of analysis on various contemporary issues in global politics. This understanding includes the evolution of interstate systems and alternative political systems; world wars and the cold war; major issues in contemporary global politics (such as challenges from China, Israel and Palestine, global terrorism); various global actors and institutions; international political economy.

Course Title. : **Civil Society Democracy**
Course Code : SIP1624538
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

A Civil Society and Democracy course focuses on the relationship between civil society and democratic governance. It examines how various forms of civil society organizations (CSOs) — including non-governmental organizations (NGOs), grassroots movements, advocacy groups, and community organizations — contribute to democratic processes and influence political, social, and economic change. The course also explores the challenges and opportunities civil society faces in both established and emerging democracies.

This course investigates the role of civil society in fostering democracy, promoting social justice, and ensuring accountability in both state and non-state actors. It explores how civil society interacts with government institutions, the media, and the private sector, and how it contributes to political participation, human rights protection, and the creation of inclusive, democratic policies. The course also looks at the diverse types of civil society actors, including activists, social movements, community leaders, and professional organizations, while addressing the challenges they face, such as state repression, funding limitations, and political polarization.

Expected Learning Outcomes:

1. Students are able to understand the concept of civil society conceptually.
2. Students are able to identify debates related to the concept and perspective of civil society.
3. Students are able to identify the development of civil society movements in Indonesia from time to time and relate them to democracy and democratization.
4. Students are able to analyze civil society in Indonesia with various concepts and perspectives that have been discussed.

Course Title. : **Networking Management**
Course Code : SIP1624626
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

A Networking Management course focuses on the principles and practices involved in designing, implementing, managing, and troubleshooting computer networks. It explores the architecture and infrastructure that support networked communication, including hardware, software, protocols, and network security. Students will gain the technical skills required to ensure the efficient operation of networks within organizations, as well as the ability to address challenges in modern networking environments, such as cloud computing, virtualization, and cybersecurity.

This course covers the key concepts and techniques used in network management, with an emphasis on maintaining and optimizing the performance, security, and reliability of computer networks. It delves into topics such as network design, network monitoring, configuration management, fault detection, performance tuning, and security management. Students will learn to use industry-standard tools and protocols to manage local area networks (LANs), wide area networks (WANs), and modern enterprise networks.

Expected Learning Outcomes:

This course develops in-depth understanding of the language and practice of networks from the politics of designing and evaluating networks.

Course Title. : **Comparitive Governments**
Course Code : SIP1624625
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

A Comparison of Governments course examines and compares different political systems, structures, and processes across various countries. It explores how governments are organized, how power is distributed, and how political institutions function in different contexts. Students will analyze the key features of different forms of government, from democracies to authoritarian regimes, and explore how these systems affect governance, policymaking, human rights, and social outcomes.

This course provides a comprehensive study of political systems and governance structures around the world. By comparing democratic, authoritarian, and hybrid regimes, students will develop a deeper understanding of how political systems operate, their strengths and weaknesses, and their impact on citizens' lives. Through case studies and theoretical frameworks, the course will explore key issues such as the role of the state, political institutions, electoral systems, political culture, and governance challenges across different countries and regions.

The course will highlight the different ways in which countries address common political problems, such as the distribution of power, the protection of rights, the role of political parties, and the functioning of the economy and society. It will also emphasize the factors that shape political systems, including historical legacies, cultural influences, and economic conditions.

Expected Learning Outcomes:

Students are able to understand and explain, compare government practices in various countries.

Course Title. : **Human Rights in International Relations**
Course Code : SHI1624421
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course discusses human rights issues from the perspective of International Relations (IR). In this course, human rights are not understood using a normative and legal-formal international law approach, but rather in terms of how human rights issues are intertwined with the international political issues. Human rights are a crucial issue in IR studies because many international political phenomena cannot be separated from human rights issues.

Expected Learning Outcomes:

1. to understand the definition, significance, origin and development of the idea of human rights,
2. Able to apply the concept of human rights in case studies and everyday social phenomena.
3. Able to experience the perspective of human rights in analyzing issues of a country, a region and the dynamics of relations between countries.
4. Able to assess the reality of violations or phenomena of actions related to Human Rights.

Course Title. : **Globalization and Transnationalism**
Course Code : SHI1624420
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Globalization and Transnationalism is a study of the consequences and risks of globalization related to strategic aspects, institutions, and agencies. This course also studies the dynamics of strategic options and positions in crucial issues of globalization.

Expected Learning Outcomes:

1. Able to act as a proud citizen who loves his country, and respond to social, political, economic problems faced in responding to the phenomenon of Globalization
2. Able to explain the dynamics of globalization and transnationalism in the region
3. Able to explain the behavior and role of actors in the phenomenon of globalization and transnationalism
4. Able to use the following perspectives, perspectives and logic of thinking obtained from certain concepts or theories in responding to the phenomenon of globalization

International Relations

Course Title. : **Global Politics**
Course Code : SHI1624418
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

The Global Politics course examines the dynamics of interactions between actors in the global political realm. Phenomena such as conflicts between countries, international cooperation, systemic changes in the international order are also interesting parts of this course.

Expected Learning Outcomes:

1. Able to understand and explain global dynamics, forms, characteristics, and motives underlying interactions between actors and international political systems.
2. Able to respond to dynamics that occur in the global political realm.
3. Able to demonstrate strong arguments through writing or verbal communication regarding global political dynamics.

Course Title. : **Global Energy Politics**
Course Code : SHI1624646
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elevtive

Course Description :

The Global Energy Politics course is intended to provide theoretical and empirical knowledge on how energy commodities affect global political games. Energy is a strategic commodity that is very much needed for the survival of every country. However, this strategic value is inversely proportional to the availability of fossil energy sources which are limited and unevenly distributed.

Expected Learning Outcomes:

1. Able to understand the concepts, theories, and relevant approaches in the study of global energy politics in International Relations.
2. Able to analyze the dynamics and empirical issues in the study of global energy politics.
3. Able to formulate solutions to problems that often occur in global energy politics such as disputes, political intervention, armed conflict, and environmental damage.
4. Able to actively participate in formulating policy proposals and/or campaigning to help resolve problems caused by the energy politics sector.

Course Title. : **Gender Studies**
Course Code : SHI1624648
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elevtive

Course Description :
The Gender in IR course explores the intersections between global gender dynamics and international relations dynamics. Students will study structural issues in the international gender order, including patriarchy, gender power structures, and structural sexism, and the influence of these issues in shaping the dynamics of international relations.

Expected Learning Outcomes:

1. Able to appreciate the main logic of the gender approach, gender bias and patriarchy and its correlation with global politics.
2. Able to share the phenomenon of gender inequality in IR and its relationship with international and transnational crime prevention cooperation.
3. Able to present case studies related to the phenomenon of gender inequality in global issues in the form of scientific arguments or ideas systematically.

Course Title. : **Paradiplomacy**
Course Code : SHI1624647
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :
The Paradiplomacy course aims to develop an in-depth understanding of the concept, development, and impact of paradiplomacy in the context of modern global diplomacy. Through this course, students will learn how paradiplomacy influences traditional diplomatic practices and local government relations between countries.

Expected Learning Outcomes:

1. Able to generate new ideas, design innovative projects, and develop a broader understanding of diplomatic practices, and integrate their knowledge and skills in the context of real foreign policy;
2. Able to analyze clearly and systematically about paradiplomacy in the form of oral or written communication, students are able to organize and writing
3. Able to demonstrate an attitude that accepts the thoughts of others about the concept and practice of paradiplomacy in a systematic and structured way through reflection on their understanding of the values, principles, and impacts of the practice in a complex global context.

Accounting

Course Title. : Auditing Practicum

Course Code : LEAK6016

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory Elective

Course Description :

This course is designed to plan, conduct, and report audits of financial statements in accordance with the risk-based audit concept, using ATLAS working papers and the ARBUTUS audit analytics tool. Students are expected to gain simulated experience in performing audits from planning to reporting stages using digital working papers and audit tools.

Expected Learning Outcomes:

1. Able to plan audits of financial statements (PK 1)
2. Able to perform audit tests and programs (PK 1)
3. Able to independently operate and utilize software for auditing (PK 10)
4. Able to independently prepare audit working papers using ATLAS (PK 1)
5. Able to collect and summarize audit evidence for commercial entity financial statements in accordance with auditing standards (PK 1)
6. Able to evaluate audit evidence for commercial entity financial statements under supervision in accordance with auditing standards (PK 2)

Course Title. : Accounting Seminar

Course Code : LEAK6008

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course provides a description of theories commonly used as theoretical frameworks in accounting research.

Expected Learning Outcomes:

1. Able to understand the assumptions, concepts, and relationships between concepts in theories commonly used in accounting research.
2. Able to explain theories commonly used in accounting research through examples, cases, analogies, and easily understandable language.
3. Able to provide arguments or opinions about theories commonly used in accounting research.
4. Able to apply a theory as a theoretical framework in a research proposal.
5. Able to present theories commonly used in accounting research to an audience using engaging, organized, concise, and structured slide presentations.

Course Title. : **Fundamental of Risk Management**

Course Code : LEAK6041

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory Elective

Course Description :

This course covers the concepts, classifications, and techniques for evaluating the conditions, analysis, and determination of risk management for an organization/company in general industries. It aligns with the growing demands for technology adoption, rapid environmental changes, climate change, and increasing geopolitical instability faced by every organization/company.

Expected Learning Outcomes:

1. Able to understand and master the concepts of risk and risk management for an organization/company in conducting its activities within increasingly challenging and complex environments.
2. Able to position the role of risk management in the demands of technological advancements, the emergence of global pandemics, increasing geopolitical instability, and the growing urgency to address future climate change.
3. Able to categorize and develop risk management for an organization/company based on risk classification types.
4. Able to understand the unique aspects of risk management in various industries, particularly in financial-related industries, as mandated extensively by financial services authority bodies.
5. Able to evaluate and analyze the conditions of an organization/company related to potential risks and the need for enterprise risk management (ERM).
6. Able to make accurate decisions in determining the risk appetite and risks of an organization/company.
7. Able to conduct evaluations of organizational/company achievements based on the implementation of risk management.

Accounting

Course Title. : Principles of Forensic Accounting

Course Code : PEAK6018

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory Elective

Course Description :

This course explains principles of forensic accounting and the competence and skills required by forensic auditors in identifying, classifying, preventing, and detecting frauds as well as the follow-up to handling them

Expected Learning Outcomes:

On successful completion of this course students will be able to:
1. explain theoretical concepts of fraud schemes, fraud risk assessment, fraud prevention and detection
2. apply the fraud concept and theory in assessing the fraud risk, preventing and detecting fraud
3. (under supervision) design methods of fraud prevention and detection
Work in teams to design and undertake a case study project.

Course Title. : Strategic Management Accounting

Course Code : PEAK6013

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course covers the concepts and techniques of contemporary management accounting required to support organizational strategy choices.

Expected Learning Outcomes:

1. Understand the role of strategic management accounting in emerging digital technologies and the new network economy.
2. Be able to apply the concepts of strategic management accounting in achieving organizational goals and strategic choices.
3. Be able to understand various organizational strategic choices.
4. Be able to understand the role of management control systems in the implementation of organizational strategy.
5. Be able to make decisions and provide recommendations to top management by using contemporary performance measurement systems in strategy implementation analysis.

Course Title. : **Human Resource Economics**
Course Code : PESP6335
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course aims to introduce students with traditional and contemporary topics in labor economics. The class provides a systematic development of the theory of labor supply, labor demand, and human capital. The purpose of the course is to apply the analytical tools from intermediate microeconomic theory to analyze how society develops and allocates human resources, and to study a wide range of labor-related issues. The topics include labor supply and demand, minimum wages, immigration, human capital, education production, inequality, and unemployment.

Expected Learning Outcomes:

By the end of the course, students will be able to analyze labor market trends and theories, evaluate the economic role of human capital development, and assess the impacts of workforce policies on organizational and national productivity. They will also understand the economic significance of training, education, and workforce diversity in enhancing competitiveness.

Course Title. : **Institutional Economics**
Course Code : PESP6453
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

Institutional Economics is an Economic Approach that explains that Economic activity can be approached through the design of institutional (institution) rules. At the macro level (institutional environment), institutions contain a set of political , social, and legal rules that establishes production, exchange and distribution activities. At the micro level (institutions of
governance). Institutions are related to rules so that exchanges between economic units that can continue either through cooperation or through competition.

Expected Learning Outcomes:

By the end of the course, students will understand the theoretical foundations of institutional economics and evaluate the role of institutions in economic development. They will be able to analyze the relationship between institutional frameworks and economic performance, assess governance structures, and propose institutional reforms to improve economic outcomes.

Course Title. : **International Monetary Economics**
Course Code : LESP6514
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course examines the functioning of international monetary systems and their impact on global economies. Topics include exchange rate regimes, balance of payments, international monetary policy, and the role of global financial institutions. Students will analyze monetary trends and evaluate policies for financial stability and growth.

Expected Learning Outcomes:

By the end of this course, students will understand the principles of international monetary economics, including exchange rate systems, balance of payments, and international financial flows. They will be able to analyze the effects of monetary policies and global financial institutions on economic stability and growth. Students will also evaluate policy responses to monetary crises and global economic challenges.

Course Title. : **Agribusiness**
Course Code : LESP6511
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course focuses on the application of business principles to agricultural production and distribution. Students will explore topics such as supply chain management, agricultural marketing, food security, and the economic and environmental sustainability of agribusiness systems.

Expected Learning Outcomes:

By the end of this course, students will understand the economic principles and business strategies relevant to the agribusiness sector. They will be able to analyze agricultural supply chains, evaluate marketing strategies for agricultural products, and assess the sustainability and profitability of agribusiness operations. Additionally, students will explore solutions for food security challenges.

Course Title. : **International Business Seminar**
Course Code : EMJ21-560
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course provides a platform for students to engage in discussions and analyze current global business issues. The seminar emphasizes the role of globalization, innovation, and sustainability in shaping international business strategies. Participants will collaborate on case studies, attend expert-led sessions, and deliver presentations on emerging topics.

Expected Learning Outcomes:

By the end of this course, students will be able to analyze current trends and challenges in international business, evaluate the impact of globalization on business operations and strategies, and present research on emerging global business topics. They will develop critical thinking skills through discussing case studies and real-world scenarios, while also collaborating effectively in teams to solve complex business problems.

Course Title. : **Intercultural Communication & Negotiation Skills**
Course Code : EMJ21-561
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This subject provides two core materials. The first material is a wide understanding about intercultural communication, including the foundation, the process, and the application of intercultural communication. The second material is a review and comprehensive practices of skills in negotiation.

Expected Learning Outcomes:

Students are expected to have a deep understanding about intercultural communication from the perspective of local Indonesia and the world community, and to conform intercultural communication with their negotiation skills.

Course Title. : **Finance of International Business**
Course Code : EMJ21-562
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course explores the financial principles and strategies used by firms operating in global markets. Topics include foreign exchange risk, international financing options, cross-border investment decisions, and the role of international financial institutions.

Expected Learning Outcomes:

Upon completing this course, students will understand the principles of international financial management, including the analysis of foreign exchange risks and strategies for risk mitigation. They will be able to evaluate international investment opportunities, assess cross-border financial implications, and apply financial tools to address global business scenarios.

Course Title. : **International Marketing**
Course Code : EMJ21-563
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course focuses on marketing strategies and practices in international markets. Students will learn about cultural differences, market segmentation, branding, global marketing mix strategies, and digital marketing in an international context.

Expected Learning Outcomes:

By the end of this course, students will have a comprehensive understanding of the cultural, social, and economic factors influencing international marketing. They will be able to develop effective global marketing strategies, design a marketing mix tailored to specific regions, and analyze market trends and consumer behavior. Additionally, students will apply digital marketing strategies to engage global audiences effectively.

Course Title. : **International HRM**
Course Code : EMJ21-564
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course addresses HRM practices in a global context, including recruitment, training, performance management, and cultural adaptation. Students will learn to manage diversity and ensure compliance with international labor laws and standards.

Expected Learning Outcomes:

At the end of this course, students will be able to analyze the impact of cultural and institutional differences on HRM practices, develop strategies for global talent management, and effectively manage diversity and cross-cultural teams. They will also demonstrate an understanding of international labor laws, ethical considerations, and the strategic role of HRM in global organizational success.

Course Title. : **Global Operation Management**
Course Code : EMJ21-565
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course examines the strategies and practices used in managing operations in a global business environment. Topics include supply chain management, quality control, logistics, and sustainability in global operations.

Expected Learning Outcomes:

By completing this course, students will understand the principles of operations management in a global context, including the design of efficient and sustainable supply chains. They will be equipped to implement quality management systems, address logistical challenges in cross-border trade, and evaluate the impact of global trends and technological innovations on operations management.

Course Title. : **International Business in Asia Pacific**
Course Code : EMJ 21-566
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course explores the unique business environments, practices, and opportunities within the Asia Pacific region. Students will analyze cultural, economic, and political factors affecting international business in this dynamic region.

Expected Learning Outcomes:

By the end of this course, students will understand the cultural and economic diversity of the Asia Pacific region and analyze the impact of regional trade agreements on business operations. They will be able to develop strategies for entering and expanding in Asia Pacific markets, evaluate challenges and opportunities in emerging economies, and demonstrate knowledge of the region's significant role in global business trends.

Course Title. : **International Business Law**
Course Code : EMJ21-567
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course will provide students with a basic understanding of the business law. Students will be extensively introduced with the basic of law, civil law/private law principles, business law/commercial law principles, and company law. This course will emphasize on a deep understanding of contract law, assets law, intellectual property law, incorporation, merger acquisition, bankruptcy law, capital market law, insurance law, negotiable instrument law.

Expected Learning Outcomes:

By the end of this course, students will understand the foundational principles of international business law, including the legal structures governing international trade and commerce. They will be able to analyze the role of international trade agreements and organizations, evaluate the legal implications of cross-border business transactions, and address intellectual property rights in a global context. Additionally, students will develop skills to resolve disputes through international arbitration and ensure compliance with regulatory frameworks.

Islamic Economics

Course Title. : **Introduction of Islamic Economics**
Course Code : EIS1624209
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course provides a fundamental understanding of the principles, concepts, and systems of economics from an Islamic perspective. The material covers the philosophical and theological foundations of Islamic economics, the fundamental differences between Islamic and conventional economics, as well as discussions on concepts of ownership, wealth distribution, market mechanisms, the role of the state, and ethics of consumption and production in Islam. Students will also be introduced to Islamic economic instruments such as zakat, waqf, and the prohibition of riba, along with an introduction to prominent figures in Islamic economics and the development of Islamic economics in both Indonesia and the global context. The course aims to shape students' perspectives in viewing economic activities holistically based on Islamic values.

Expected Learning Outcomes:

Able to apply Islamic economic and financial theories effectively, capable of solving economic problems through an Islamic economic approach, and able to design development plans for the advancement of the Muslim community's economy.

Course Title. : **Islamic Institutional Economics**
Course Code : EIS1624635
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Students will learn approach in economics where economic activity can be seen through the framework of institutional context in accordance with Islamic views. This course will begin with the existing institutional economy then applied rules of the game (institutions) in Islamic view to develop that existing institution. Institution here includes : Islamic ethics, the foundation of sharia (economic fiqh) and formal rule.

Expected Learning Outcomes:

Students are expected to identify and explain relevancy of institutional economics with ethics in Islamic economics framework. Students are able to understand and explain the basis of Islamic economic ethics, the framework of Islamic ethical axioms and their role in regulating how the economy works.

Course Title. : **Economics of Zakat and Tax**
Course Code : EIS1624637
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :
This course discusses the role of zakat and waqf to improve the economy, especially in the study of Islamic economics. students are expected to understand the important and strategic role in the management of funds such as zakat and waqf in the economy which aims to empower people.

Expected Learning Outcomes:

Students are expected to be able to understand :
The basic concepts in the economics of zakat and waqf
Various policies and strategies developed in the context of economics of zakat and waqf
Identify and apply economic studies of zakat and waqf and be able to formulate solutions to contemporary economic problems

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Course Title. : **Management of Halal Product**
Course Code : EIS1624638
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :
This course is designed to equip students with an understanding of halal product management along with the textual references that serve as its foundation, as well as to examine halal compliance both in terms of raw materials and production processes. Students are also provided with knowledge about the halal certification process and the halal assurance system in accordance with Indonesian government regulations.

Expected Learning Outcomes:

Able to define and understand the concept of *halal* from an Islamic perspective, including its textual basis and the urgency of halal products.
Able to explain and analyze halal product management, certification, and the halal assurance system.
Able to assess the halal status of products from various aspects, as well as understand the development of the halal industry and the application of POAC (Planning, Organizing, Actuating, Controlling) in halal industry management.

Course Title. : **Management of Islamic Bank Asset and Liability**
Course Code : EIS1624639
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course provides an in-depth understanding of how Islamic banks manage their assets and liabilities in alignment with Sharia principles. Students will explore the unique characteristics of Islamic financial products, liquidity management, capital adequacy, and risk management strategies. Emphasis is placed on balancing profitability, liquidity, and compliance with Islamic jurisprudence, while ensuring sustainable financial performance. Case studies and practical examples from Islamic banking institutions will be used to illustrate contemporary challenges and solutions in managing assets and liabilities.

Expected Learning Outcomes:

Able to critically analyze the principles and practices of asset and liability management in Islamic banks. They will develop the ability to assess liquidity positions, identify risks, and formulate strategies that ensure financial stability and Sharia compliance. Students will also gain practical skills in applying theoretical frameworks to real-world scenarios, enabling them to propose solutions for optimizing profitability and risk balance in Islamic financial institutions.

Course Title. : **Development Economics**
Course Code : EKO1824101
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course addresses global development issues. The majority of the world's population is poor and still lives on less than $2.15 per day. Why do they still struggle with poverty, and what indicators are appropriate for measuring poverty? At the same time, developing countries cannot escape the trends of economic globalization. What policies are appropriate and how governments should formulate them to address this poverty problem?

Expected Learning Outcomes:

Mastering the theory and the concepts of economic development, specifically the evolution of development thought and current issues on economic development. Also, capable of managing data and indicators of development, as well as government policies to address development problems in developing countries.

Course Title. : **Microecoonomics**
Course Code : EKO1824102
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course examines consumer and producer behaviour at intermediate to advance level. The primary focus is on theoretical understanding with an expanded discussion of applications to public policy. Policy issues such as pollution, welfare and income distribution, market types, industry regulation, price controls, tax policy, and health insurance are some of the cases used to illustrate microeconomic principles. This course also employs a more in-depth mathematical approach.

Expected Learning Outcomes:

Mastering microeconomics theory and its application at the intermediate level. It covers consumer and producer behavior, market structure and strategic behaviour, mathematical approaches, and application to public policy.

Course Title. : **Macroeconomics**
Course Code : EKO1824103
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course examines macroeconomics at an intermediate to advanced level, encompassing the analysis of the aggregate behaviour of economic actors in an open economy model. This course will also include topics on economic growth, the development of macroeconomic thought, and the microeconomic foundations of macroeconomics. The course emphasizes mastery of concepts and theories, as well as an understanding of the impact of macroeconomic policies on macroeconomic variables and economic performance.

Expected Learning Outcomes:

Mastering macroeconomics theory and its application at the intermediate level, covering macroeconomic models, growth theory, the evolution of macroeconomics thought, open economy, and macroeconomic policy.

Course Title. : **Political and Institutional Economics**
Course Code : EKO1824104
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

The objective of the course is to provide students with a solid foundation in the basic concepts of new institutional economics, as well as a first impression and understanding of the topics studied and the methodologies used at the forefront of institutional research today. Throughout the course, students will learn how to read and write research papers, evaluate the quality of a research paper (including assessing the data and methodology used), and interpret regression outputs and empirical results.

Expected Learning Outcomes:

Mastering the theory of political and institutional economics and its application in the relevant fields. Also, capable of reading and analyzing papers (articles) as well as applying the research of this course.

Course Title. : **Global Economic Analysis**
Course Code : EKO1824105
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course discusses globalization, including its history, motivations, challenges, benefits, and impacts, particularly for poor and developing countries. It also examines current developments in globalization, particularly in the face of global dynamics that tend to return to protectionism.

Expected Learning Outcomes:

Mastering the concept and challenges of globalization, covering the role of international institutions in globalization, the history and the impact of the global crisis, the role of the market, and the future of globalization.

Course Title. : **Public Economics**
Course Code : EKO1824313
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course provides advanced, organized, and comprehensive discussions on theoretical concepts and empirical studies in the field of public economics. This subject explores the relationship between government and the market, examining the arguments for and against government involvement. Accordingly, this course covers a wide range of important decisions faced by policymakers regarding the expenditure and financing side of the public sector, as well as their implications for the behaviour of individuals, companies, and the economy.

Expected Learning Outcomes:

Mastering the theory of public economics at the intermediate level, covering theoretical concepts and empirical studies in the field of public economics. Evaluate fiscal policy independently, and have the ability to analyze the relationship between institutional arrangements and fiscal outcomes, communicate and explain their analysis and conclusions in a clear and unambiguous manner.

Course Title. : **Empirical and Policy Analysis of Public Economics**
Course Code : EKO1824315
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course examines empirical analysis and public economic policy, emphasizing the empirical application of a scientific approach to regional economics and its relationship to public economic policy. This course integrates empirical evidence and policy implementation. This synthesis is expected to provide students with comprehensive knowledge across theoretical, empirical, and policy implementation domains. This course serves as an umbrella for two other courses in the Public Economics concentration.

Expected Learning Outcomes:

Mastering the empirical application of a scientific approach to public economics and its relationship to public economic policy.

Course Title. : **Regional and Urban Economics**
Course Code : EKO1824316
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Elective

Course Description :

This course examines how economic forces shape developed (urban) regions and the economic interconnections between regions. It develops a conceptual framework for discussing theories of land use, housing, transportation, and regional economic development, while also examining empirical evidence supporting these theories.

Expected Learning Outcomes:

Mastering the theory of regional and urban economics at the intermediate level, covering how economic forces shape developed (urban) regions and the economic interconnections between regions, as well as its application in the relevant fields study.

Course Title. : Strategic Management Accounting

Course Code : LEAK6016

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Strategic Management Accounting is an advanced course typically offered in Master's in Accounting programs, focusing on the integration of accounting information with broader business strategy. It emphasizes the role of the management accountant in supporting organizational decision-making, particularly in dynamic and global environments. Key topics include the use of financial and non-financial data for planning, control, and performance evaluation; strategic cost management techniques like activity-based costing and target costing; investment appraisal and risk assessment; and the application of management accounting tools to enhance competitive positioning and value creation for stakeholders. Students often engage in case studies and simulations to apply concepts such as balanced scorecards and strategic business analysis, preparing them for roles in corporate finance, consulting, or executive management.

Expected Learning Outcomes:

1. Strategic Decision-Making: Apply management accounting techniques, such as activity-based costing, target costing, and balanced scorecards, to support strategic business decisions and enhance organizational competitiveness.
2. Performance Evaluation: Design and implement performance measurement systems that integrate financial and non-financial metrics to assess organizational efficiency and effectiveness.
3. Cost Management: Analyze cost structures and use strategic cost management tools to optimize resource allocation and improve profitability in dynamic business environments.
4. Risk Assessment: Evaluate financial and operational risks using investment appraisal techniques and integrate risk management into strategic planning processes.
5. Stakeholder Communication: Communicate complex financial analyses clearly to stakeholders to support long-term strategic objectives and value creation.
6. Critical Thinking: Critically assess the alignment of management accounting practices with organizational goals through case studies and real-world applications.

Course Title. : Contemporary Accounting Theory

Course Code : LEAK6008

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course provide the foundational principles and conceptual frameworks that underpin financial reporting and accounting practices. The curriculum explores the theoretical basis of Generally Accepted Accounting Principles (GAAP), including the role of accounting in society, policy-making, and standard-setting by bodies like the FASB and IASB. Topics typically cover valuation and measurement of assets, liabilities, revenues, and expenses; income recognition and matching principles; international accounting standards; and ethical considerations in financial disclosure. Through analytical discussions and research, students learn to critically evaluate accounting issues, relate theory to practical applications like consolidated financial statements and mergers, and address emerging trends such as sustainability reporting. This course builds advanced critical thinking skills essential for auditing, regulatory compliance, and academic research in accounting.

Expected Learning Outcomes:

1. Theoretical Understanding: Critically evaluate the conceptual frameworks and principles underlying financial accounting standards, including GAAP and IFRS.
2. Standard-Setting Analysis: Analyze the roles of standard-setting bodies (e.g., FASB, IASB) and their impact on accounting practices and financial reporting quality.
3. Issue Evaluation: Assess contemporary issues in accounting, such as fair value measurement, revenue recognition, and sustainability reporting, through theoretical and practical lenses.
4. Research Skills: Conduct rigorous accounting research, synthesizing theoretical concepts with empirical data to address complex accounting challenges.
5. Ethical Application: Apply ethical considerations to accounting theory, ensuring transparency and integrity in financial reporting practices.
6. Global Perspective: Understand the implications of international accounting standards and their convergence, preparing for globalized accounting environments.

Course Title. : Accounting information system and control

Course Code : LEAK6041

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course covers the concepts, classifications, and techniques for evaluating the conditions, analysis, and determination of risk management for an organization/company in general industries. It aligns with the growing demands for technology adoption, rapid environmental changes, climate change, and increasing geopolitical instability faced by every organization/company.

Expected Learning Outcomes:

1. Able to understand and master the concepts of risk and risk management for an organization/company in conducting its activities within increasingly challenging and complex environments.
2. Able to position the role of risk management in the demands of technological advancements, the emergence of global pandemics, increasing geopolitical instability, and the growing urgency to address future climate change.
3. Able to categorize and develop risk management for an organization/company based on risk classification types.
4. Able to understand the unique aspects of risk management in various industries, particularly in financial-related industries, as mandated extensively by financial services authority bodies.
5. Able to evaluate and analyze the conditions of an organization/company related to potential risks and the need for enterprise risk management (ERM).
6. Able to make accurate decisions in determining the risk appetite and risks of an organization/company.
7. Able to conduct evaluations of organizational/company achievements based on the implementation of risk management.

Course Title. : **Forensic Accounting**
Course Code : PEAK6018
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Forensic Accounting in a Master's in Accounting program trains students to investigate financial irregularities, detect fraud, and serve as expert witnesses in legal proceedings. The curriculum covers fraud examination techniques, risk assessment, internal controls evaluation, and data analytics for anomaly detection; business valuation methods; and the preparation of investigative reports. Key skills include auditing emerging technologies, interviewing suspects, and applying principles from financial crimes like asset misappropriation and corruption. Courses often incorporate practical exercises in fraud prevention, litigation support, and ethical standards, preparing students for certifications such as Certified Fraud Examiner (CFE) or Certified Anti-Money Laundering Specialist (CAMS). This specialization is ideal for roles in investigative accounting, government enforcement, or corporate compliance, addressing the growing demand for professionals who can safeguard against financial misconduct.

Expected Learning Outcomes:

On successful completion of this course students will be able to:
1. explain theoretical concepts of fraud schemes, fraud risk assessment, fraud prevention and detection
2. apply the fraud concept and theory in assessing the fraud risk, preventing and detecting fraud
3. (under supervision) design methods of fraud prevention and detection
Work in teams to design and undertake a case study project.

Course Title. : **Corporate Governance and Ethics**
Course Code : PEAK6013
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course examines the principles of ethical behavior and corporate governance frameworks that shape responsible decision-making in accounting and business. It explores the intersection of ethical theory, professional standards, and regulatory requirements, emphasizing their application in financial reporting, auditing, and corporate management. Key topics include ethical decision-making models, codes of conduct (e.g., AICPA, IMA), corporate social responsibility (CSR), board structures, risk management, and the role of governance in preventing fraud and financial misconduct. Students analyze real-world case studies, such as corporate scandals and governance failures, to understand the impact of ethical lapses and the importance of robust governance systems. The course also addresses emerging issues like sustainability, stakeholder theory, and global governance standards, preparing students for leadership roles in accounting, auditing, and corporate compliance.

Expected Learning Outcomes:

Upon successful completion of the Ethics and Corporate Governance course, students will be able to:
1. Apply Ethical Frameworks: Utilize ethical decision-making models and professional codes of conduct (e.g., AICPA, IMA) to resolve complex ethical dilemmas in accounting and business contexts.
2. Evaluate Governance Structures: Critically assess corporate governance frameworks, including board composition, audit committees, and internal controls, to ensure accountability and transparency.
3. Mitigate Fraud and Misconduct: Identify governance weaknesses that contribute to financial fraud and recommend strategies to strengthen controls and prevent unethical behavior.
4. Incorporate CSR and Sustainability: Integrate corporate social responsibility and sustainability principles into governance practices, balancing stakeholder interests with organizational objectives.
5. Analyze Case Studies: Evaluate real-world corporate governance failures and ethical breaches through case analysis, drawing lessons to improve decision-making and oversight.
6. Communicate Effectively: Articulate ethical and governance recommendations clearly to diverse stakeholders, including management, boards, and regulators, in written and oral formats.
Lead Ethically: Demonstrate leadership in fostering an ethical organizational culture, promoting integrity and accountability in accounting and business practices.

Course Title. : Strategy and Value Creation
Course Code : EMJ1824211
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course is focused on strategically leading business organizations and can enable students to immediately contribute to their organizations by helping to craft strategy for their departments/units, and be able to contribute to, understand and implement higher level strategies in their organizations. Strategic thinking abilities are crucial for students to be promoted to higher level positions in their organizations.

Expected Learning Outcomes:
By the end of this course, students will be knowledgeable about and be able to put into practice effective leadership skills, communication skills, and will gain knowledge and be proficient in strategic decision making.

Course Title. : Academic Reading & Writing
Course Code : EMJ1824212
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course introduces students to principles of effective written communication and critical reading. Stresses invention, drafting, revising, editing, and self-assessment, along with effective critiquing and collaborating. Students needs to present their draft of thesis proposal

Expected Learning Outcomes:
By the end of this course, students will be able to evaluate arguments and evidence critically, apply the methods of inquiry of the natural sciences, social sciences, and the arts and humanities, and demonstrate understanding of contemporary social and ethical issues.

Course Title. : Leading Diversity in Organizations

Course Code : EMJ1824213

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

People in the workplace are constantly interacting with peers, managers, and customers with very different backgrounds and experiences. When harnessed effectively, these differences can be the catalyst for creative breakthroughs and the pathway to team and organizational learning and effectiveness; but when misunderstood, these differences can challenge employees' values, performance, workplace relationships, and team effectiveness. This course is designed to help students navigate diverse settings more effectively and improve their ability to work within and lead diverse teams and global organizations. It also offers students the opportunity to develop their critical thinking on topics such as identity, relationships across difference and bias, and equality of opportunity in organizations around the world and how they relate to organizational issues of equality of opportunity, inclusion, and effectiveness. Class sessions will be experiential and discussion-based. Readings, self-reflection, guest lectures, case studies, and a final individual or team project will also be emphasized.

Expected Learning Outcomes:

By the end of this course, students will be able to describe current perspectives on the relationships among diversity and inclusion in global organizations, evaluate the aspects of your identity and personal experiences that shape how you interact and engage with others and how they interact and engage with you in organizations, explain how issues of privilege and bias influence opportunity and effectiveness in global organizations, propose ways to make relationships across differences in organizations more effective, analyze a company's current approach to leading diversity and use content from this course to propose ways to enhance learning and effectiveness in that company.

Course Title. : **Digital Marketing (Marketing Concentration)**
Course Code : EMJ1824216
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Digital marketing plays a key role in shaping the modern economy, fueling modern business and enabling new forms of social communication. The course provides an applied and hands-on approach to understanding digital marketing technologies and how to use them to promote products, increase awareness, attract customers and grow businesses.

Expected Learning Outcomes:

By the end of this course, students will be able to understand the economics of digital environments, including freemium models and building two-sided markets. Become proficient in performing unit economics analysis and market sizing. Students also could have experience with designing a digital marketing strategy that uses micro-targeting and reaches target audiences through multiple marketing channels and technologies. Also, have a good understanding of the standard portfolio of digital marketing tools (SEO, SEM, Display, Email, Social etc.) and how to utilize them.

Course Title. : **Consumer Behavior Analysis (Marketing Concentration)**
Course Code : EMJ1824217
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Each of us are active consumers in everyday life, purchasing everything from groceries to clothing to and college educations. However, our individual personalities and characteristics dictate that no two consumers are alike; we make unique choices, making it challenging for marketers to create coherent marketing strategies regardless of similarities within target markets. In this class, we will examine how and why consumers behave the way they do, how environmental impacts shape how we behave, and the practical marketing implications of that behavior.

Expected Learning Outcomes:

By the end of this course, students will be able to develop a deeper understanding of consumer behavior by learning about relevant psychological and sociological theories and identify how those theories can be used to impact real-world marketing strategies and decisions.

Course Title. : **Investment and Portfolio Management (Finance Concentration)**

Course Code : EMJ1824218

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course offers the financial theory and quantitative tools necessary for understanding how stock, bond, and option prices are determined, and how financial assets are used for investment decisions. Topics covered include modeling the relation between risk and return, optimal portfolio selection based on mean-variance analysis, asset pricing models, money management, practical asset allocation, and more. The focus is mainly on common stocks, but fixed income securities (bonds) and derivative securities (options and futures) are also analyzed.

Expected Learning Outcomes:

By the end of this course, students will be able to discuss the concept and application of risk and return, fixed income, asset allocation, capital asset pricing model, practical asset allocation, multifactor model and arbitrage pricing theory, money management industry, and derivatives.

Course Title. : **Business Planning and Corporate Budgeting (Finance Concentration)**

Course Code : EMJ1824219

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course discusses the process of planning and controlling for comprehensive profit budget which includes targets, procedures and the implication of budget. After taking this course, students are expected to understand the process of making comprehensive budget for commercial entity and manufacturing company as well.

Expected Learning Outcomes:

By the end of this course, students will be able to develop a deeper understanding of comprehensive budget, operational budget, variable budget, financial budget, implementation report and analysis of variance, break-event analysis, and their relationships with business planning.

Course Title. : **Organizational Behavior (Human Resource Management Concentration)**

Course Code : EMJ1824220

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course is an introduction to the basic concepts and topics in organizational behavior (OB) and management. The course focuses on OB at three levels: individual, interpersonal, and collective. It will cover decision-making, relationships, motivation, personality, influence, and groups.

Expected Learning Outcomes:

By the end of this course, students will be able to increase knowledge of OB concepts in order to understand and analyze how organizations and the people within them work; develop leadership, management, and collaboration skills by providing opportunities to apply OB concepts to real-world problems; and build a diverse and inclusive learning community.

Course Title. : **Performance Management and Compensation (Human Resource Management Concentration)**

Course Code : EMJ1824221

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

Compensation and performance management are key components of the HR system. They are key contributors to organizational effectiveness. This Course addresses how organizations use compensation and performance management practices to drive strategic business success. This Course is designed to examine how recent theoretical and research developments inform compensation decisions and performance management in developing and maintaining a motivated, committed, and competent workforce.

Expected Learning Outcomes:

By the end of this course, students will be able to learn how organizational systems operate to manage a competent workforce using compensation and performance management as instruments, better understand how to evaluate reward and performance management systems in terms of equity and cost-effectiveness, know how to diagnose compensation management issues and problems, and develop appropriate compensation and performance management solutions.

Course Title. : **Strategy Implementation (Strategic Management and Executive Leadership Concentration)**

Course Code : EMJ1824222

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

The goal of this course is to provide tools to turn good strategy into successful reality. This course focuses on the choices, structure, and conditions that enable the successful attainment of strategic objectives. During this course students will gain insights from rigorous academic research on successful implementation, as well as a series of seasoned business leaders who will visit to share their own experience from the front lines.

Expected Learning Outcomes:

By the end of this course, students will be able to discuss the formulation and implementation of strategy to either general managers, entrepreneurs, management consultants, or investors.

Course Title. : **Corporate Innovation Strategy and Entrepreneurship (Strategic Management and Executive Leadership Concentration)**

Course Code : EMJ1824223

Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :

This course focuses on the management of innovation in a corporate setting. Common approaches and best practices used to foster innovation and entrepreneurship will be investigated and explored. Students will gain foundational knowledge about how to apply innovative principles, and in what contexts. This course serves as the foundation for more sophisticated application techniques. This course covers both tactical and strategic approaches to innovation and entrepreneurship and examines these in multiple contexts, including technology, business process, product, and strategy. Furthermore, the course will expand on widely accepted frameworks and perspectives for managing innovation, such as agile product development, and the lean startup approach. Students will also delve into the more abstract notion of how to create and enable an organizational culture of innovation.

Expected Learning Outcomes:

By the end of this course, students will be able to understand and apply innovation frameworks, concepts, and theories; recognize and address the contextual factors that drive innovation in a business; understand and manage service innovation, integrate innovation concepts, principles, and practices into strategic planning; stimulate creativity in organization; manage innovation project portfolios; implement innovation in organizations; foster innovation in a corporate culture; apply the principles of design thinking; understand how to cultivate innovation platforms and ecosystems; apply lean development and prototyping methods; understand the intellectual property issues associated with innovation activity in an organization; and apply innovation principles in a socially responsible manner.

Course Title. : Research Dissemination
Course Code : EMJ1824411
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course focuses on the strategies to publish theses' works in either international conferences or academic journals. While this course emphasizes writing result instead of weekly class meetings, the publications may benefit students on their academic communities' presences and added value on their future job endeavours.

Expected Learning Outcomes:
By the end of this course, students will be able to publish in either international conferences or academic journals. Students do experience the challenges to publish in various levels of publication outlets, as well as techniques to communicate in academic communities.

Course Title. : Preliminary Defense
Course Code : EMJ1824412
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course emphasizes the analysis of thesis results prior to the final thesis manuscript. Having conducted this stage, it is expected that the thesis draft is getting better in term of content and writing.

Expected Learning Outcomes:
By the end of this course, students will be able to refine their management of the thesis findings. Once it is completed, the manuscript then is ready for final thesis defense.

Course Title. : Thesis / Capstone Project
Course Code : EMJ1824413
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory

Course Description :
This course deals with either thesis or capstone project from the beginning to the final manuscript. Here, a student and his/her supervisor will work on the development and continuous refinement of the student's manuscript. This is ended with a thesis defense and usually continued with a final refinement of the manuscript based on the defense's examiners' inputs.

Expected Learning Outcomes:
By the end of this course, students will be able to have their thesis or capstone project's report accepted for graduation. It is expected that the work benefits their objects of study and hence all the required processes of the master's degree study are perfectly completed.

Course Title. : **Current issues in Economics Research (Major in Economics)**
Course Code : EKO1924214
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Advanced Development Economics (Major in Economics)**
Course Code : EKO1924212
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Behavioral Accounting Research (Major in Accounting)**
Course Code : EKO1924233
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Current issues in Accounting (Major in Accounting)**
Course Code : EKO1924234
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Current issues in marketing theory (Major in Management – Marketing)**
Course Code : EKO1924225
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Seminar in Consumer Behavior (Major in Management – Marketing)**
Course Code : EKO1924226
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Current issues in finance theory (Major in Management – Finance)**
Course Code : EKO1924223
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Seminar in finance research (Major in Management – finance)**
Course Code : EKO1924224
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Current Issues in Human Resource Management Theory (Major in Management – Human Resource Management)**
Course Code : EKO1924227
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Human Resource management: Strategy, Laws and Ethics (Human Resource management: Strategy, Laws and Ethics)**
Course Code : EKO1924228
Credits : **3 SKS** (4.8 ECTS) Type of Courses : Mandatory
Course Description :

Expected Learning Outcomes:

Course Title. : **Bioinformatics in nutrition**
Course Code : DIG-1824212
Credits : **6.4 ECTS** Type of Courses : Mandatory

Course Description :
In this course, students learn about various types of data analysis and their presentations.

Expected Learning Outcomes:
"Students are able to understand (C2), respond to (A2), and apply (P2) various types of data analysis and their presentations.

Course Title. : **Gut Microbiota**
Course Code : DIG-1824218
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines (C4) the role of various types of microbiota in the digestive tract and how they affect health.

Expected Learning Outcomes:
Students are able to examine (C4) the types, characteristics, and roles of microbiota in the digestive tract and how they affect health.

Course Title. : **Nutrition for Children with Special Needs**
Course Code : DIG-1824220
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course examines the nutritional needs and the role of nutrition for patients with special needs.

Expected Learning Outcomes:
Students are able to analyze (C4) the nutritional needs of patients with special needs; the role of nutrition for patients with special needs, and are able to develop diet recommendations (P4) for patients with special needs.

Course Title. : **Nutrition for Growth and Development**
Course Code : DIG-1824221
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course discusses the role of nutrients in maintaining the growth and development of fetuses in the womb, infants, toddlers, children, and adolescents, covering topics such as physiology and characteristics, nutrient needs, the development of nutritional problems and influencing factors, as well as the study of intervention solutions for nutritional problems in each period of growth and development.

Expected Learning Outcomes:

Students are able to analyze (C-4) the philosophy and concepts as well as the physiology of growth and development and integrate (P-4) the philosophy and concepts of growth and development into public health service programs.

Course Title. : **Development of Nutritional Intervention Food Products**
Course Code : DIG-1824222
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses the principles of food processing technology and the development of processed food products and their utilization for nutritional interventions in issues such as stunting, underweight, obesity, anemia, and degenerative diseases or metabolic syndrome.

Expected Learning Outcomes:

Students are able to analyze (C-4) the principles of food processing technology and the development of processed food products and their utilization for nutritional interventions in issues such as stunting, underweight, obesity, anemia, and degenerative diseases or metabolic syndrome, and to design (P4) formulas for nutritional interventions; as well as actively participate (A-2) in discussions.

Course Title. : **Disaster Nutrition**
Course Code : DIG-1824223
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
The course Nutrition in Disaster Conditions provides an understanding of the basic theories and concepts of nutrition in disaster services and response.

Expected Learning Outcomes:
Students are able to manage nutritional management in disaster response.

Course Title. : **Sports and Fitness Nutrition**
Course Code : DIG-1824224
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course examines the concepts of exercise physiology, nutritional needs, nutrition metabolism, training periodization, and nutrition in athletes.

Expected Learning Outcomes:
"Students are able to evaluate (C5) the role of nutrition in sports performance; they are able to develop and implement (P2) a nutrition program for athletes; they are able to coordinate (A4) with related professions/parties in creating a nutrition program for athletes.

Course Title. : **Nutrition for Aging and Aesthetic Health**
Course Code : DIG-1824225
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course examines the role of nutrients in physiological changes during the aging process, nutritional needs, the development of nutritional problems and diseases during the aging process, and influencing factors, as well as interventions to solve nutritional problems during the aging process.

Expected Learning Outcomes:
Students are able to analyze (C4) the role of nutrients in physiological changes during the aging process, nutritional needs, the development of nutritional problems and diseases during the aging process, and influencing factors, as well as interventions to solve nutritional problems during the aging process.

Course Title. : **Functional Foods and Nutraceuticals**
Course Code : DIG-1824226
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
In this course, students learn about the structure, composition, and functional properties of key components in food and their impact on the quality of food products, as well as analyze the bioactive components of functional foods.

Expected Learning Outcomes:

Students are able to analyze (C-4) the structure, composition, and functional properties of food materials and their impact on the quality of food products, including nutritional aspects and sensory properties, as well as their effects on health.
Students are able to compile (P2) a comprehensive assignment on the bioactive components of functional food materials.

Course Title. : **Food Safety**
Course Code : DIG-1824227
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course studies the latest developments in food safety and its hazard analysis.

Expected Learning Outcomes:

Students are able to understand and apply hazard analysis in case studies in Indonesia.

Course Title. : **Socio-Anthropology of Nutrition**
Course Code : DIG-1824228
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course covers fundamental concepts in anthropology and sociology as they relate to nutrition science. It explores various topics including health-seeking behavior, perceptions of health and illness, gender and health, and communication between providers and clients. The course also describes into cultural concepts and values, the influence of family, peers, and community leaders on eating habits, and the roles of individuals, families, and communities. Additionally, it examines the structure of local government and religious leaders in shaping nutrition policies, as well as food values, ideologies, taboos, and preferences.

Expected Learning Outcomes:

Students are able to explain (C2), respond to (A2), and implement (P2) the overview of the Introduction to Anthropology and Sociology.

Course Title. : **International research course**
Course Code : DIG-1824229
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
In this course, students participate in research abroad.

Expected Learning Outcomes:

"Students are able to analyze (C4), formulate (A4), and develop (P4) research designs following applicable scientific principles, enabling them to participate in research abroad.

Course Title. : **Nutrigenomics and Personalized Diets**
Course Code : DIG-1824230
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
In this course, students learn the basics of nutrigenomics and research findings on nutrigenomics that can be applied in the provision or management of diet choices to prevent and treat diseases."

Expected Learning Outcomes:

"Students are able to understand (C5) and apply (P5) the theory of nutrigenomics and analyze research findings on nutrigenomics.

Course Title. : **Food Service Management**
Course Code : DIG-1824231
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course studies the food service system and its components by applying nutrition and management concepts."

Expected Learning Outcomes:

students are able to: 1: Analyze (C4) and evaluate (C5) the elements of the food service system and process in institutions. 2: Report (A2) the calculation results of input and output elements in the food service process in the form of papers and presentations, and manage (P5) the budget in food service.

Course Title. : **Sensory Nutrition and Disease**
Course Code : DIG-1824232
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

In this course, students learn about the Introduction of Sensory Nutrition; Sensory Science and Disease; Anatomy, Physiology, and Neurobiology of Olfaction, Gustation, and Chemesthesis; Sweet Taste and Added Sugar Consumption in Infancy and Childhood; Sensory Nutrition and Organoleptic and Hedonic; Olfactory Impairment and Neurodegenerative Disorders (Parkinson's and Alzheimer's); Loss of Taste and Smell Function in Cancer Patients; Oral Health and Chemosensory Problems: Clinical Implications and Disease Management; Oral Health and Microbiome; and Taste and Smell in Weight Loss Surgery.

Expected Learning Outcomes:

students are able to explain (C2), respond to (A2), and complete (P2) assignments related to sensory nutrition and disease

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Course Title. : **Nutrition and Mental Health.**
Course Code : DIG-1824233
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course aims to provide students with a comprehensive understanding of cognitive, emotional, and conative regulation in the context of mental health and its relationship to nutrition. Students will explore the interplay between self-perception, psychosocial determinants related to eating behaviors and foods, and the role of neurotransmitters in nutrition and mental well-being. The course will address both factual and mythical perspectives and will cover bioactive food compounds and their impact on neurological and mental wellness. Additionally, students will analyze current research on the effects of various diets and food patterns on neurotic and psychotic symptoms, neurological disorders associated with aging (such as Alzheimer's and dementia), and developmental disorders like ADHD and Autism Spectrum Disorders.

Expected Learning Outcomes:

"Students are able to explain (C2) and respond to (A2) cognitive, emotional, and conative regulation in the context of mental health and its relationship with nutrition, self-perception, and psychosocial determinants related to eating and foods. They can also explain the role of neurotransmitters in nutrition, eating, and foods, distinguish facts from myths, and describe types of bioactive food compounds and their impact on neurological and mental well-being, as well as analyze valid research findings on the effects of specific diets/food patterns/types on neurotic/psychotic symptoms, neurological disorders related to aging (Alzheimer's/Dementia), and developmental disorders such as ADHD and Autism Spectrum Disorders.

Course Title. : **British American and Culture Society**
Course Code : BEN1624208
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
British and American Culture and Society is a course that studies England and United States of America's society in the perspective of history and cultural, social, religion, economy, and political diversity.

Expected Learning Outcomes:

Students will study some aspects of life of the British and the American society. This will include the history, the political system, the social aspects, and the cultures (language & literature).

Course Title. : **Modern English and American Drama**
Course Code : BEN1624401
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
Modern English and American Drama course is a compulsory course for undergraduate English Literature study program students. In this course, students will analyze drama works by British and American writers of the modern era to explore the characteristics of the modern era, the rationale underlying it, and
its manifestation in the drama.

Expected Learning Outcomes:

Students are able to analyze dramas by British and American writers to defend their arguments and integrate the characteristics of the modern era, the underlying rationale, and their embodiment in British and American modern drama works.

Course Title. : **Modern English and American Poetry**
Course Code : BEN1624403
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
Modern English and American Poetry are courses that teach students the ability to describe the intrinsic and extrinsic aspects of a poem written in the era of American literature and modern English literature.

Expected Learning Outcomes:

Students are able to extract the development of poetry in the modern era of American literature and English literature. In general, students are able to review the writing spirit of poets in the modern era of American literature and English literature. In particular, students are able to assess the content of each poem discussed.

Course Title. : **Literary Criticism**
Course Code : BEN1624404
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
Literary Criticism course studies the theory of literary criticism and its application to English literary works.

Expected Learning Outcomes:

Students should be able to apply literary criticism and assess and combine intrinsic and extrinsic criticism of English literary works

Course Title. : **Cross Cultural Communication**
Course Code : BEN1624609
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

The Cross-Cultural Communication course offers an in-depth study of cross-cultural communication in a variety of contexts, with a particular focus on communication involving English as an intermediary language. This course covers the concept of communication, the potential issues that arise in cross-cultural interactions, and strategies for resolving them. It also explores the potential role of English Literature students in addressing these issues

Expected Learning Outcomes:

Students are able to articulate, operationalize, and document the theoretical tenets associated with cross-cultural communication

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Course Title. : **Ethnic and Ethnicity**
Course Code : BEN1624412
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

Ethnic and Ethnicity is a course that studies the American society in the perspective of racial and ethnic diversity seen in cultural and socio-political aspects, by first looking at the development of immigrant life from its arrival until the 20th century.

Expected Learning Outcomes:

Students are able to describe and implement and report the basics of ethnic and ethnicity theories. Students learn American society in the perspective of racial and ethnic diversities seen in cultural and socio-political aspects, by looking at the development of immigrants' lives from their arrival to the 20th century.

Course Title. : **Environmental Law**
Course Code : HIH1624401
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course serves as a foundational component examining: Environmental Law definitions and parameters (Indonesian context), global Environmental Law evolution alongside Indonesian developments, fundamental principles governing Indonesian Environmental Law, rights and responsibilities of individuals, legal entities, and public engagement, environmental management authority frameworks within Indonesia, functional conservation regulations (encompassing environmental quality standards, significant impact assessments, Environmental Impact Assessment (AMDAL) requirements, waste and B3 substance management protocols), environmental compliance mechanisms (permitting processes, oversight procedures, administrative penalties, environmental audit requirements), Environmental Law enforcement methodologies (alternative dispute resolution both within and outside judicial systems, class action litigation, compensation structures, strict liability principles), and enhanced application of diverse regulatory frameworks (administrative, civil, and criminal legal provisions) collectively forming the comprehensive Indonesian Environmental Law System.

Expected Learning Outcomes:

By the end of this course, students will be able to:
1. Explain the development of environmental law and its scope.
2. Explain the function of environmental law in sustainable development and environmental awareness
3. Evaluate environmental law management in the context of sustainable development and environmental awareness.
4. Evaluate the implementation and enforcement of environmental law in Indonesia.
5. Litigate in environmental law enforcement.

Course Title. : **International Law**
Course Code : HIH1624405
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :

This International Law course aims to provide knowledge to students to be able to understand and analyze the provisions of International Law relating to the activities of International Law subjects, including Nature, Understanding, and Development of International Law; International Society and International Law; Binding Strength Binding International Law; International Law and National Law Relationships; International Law Subjects; Sources of International Law; State Territorial Sovereignty; State Jurisdiction; International Recognition; State Succession; State Accountability; International Dispute Resolution.

Expected Learning Outcomes:

By the end of this course, students will be able to:
1. Understand and explain each topic studied in International Law. Undergraduate students are expected to understand the characteristics of the applicability of international law
2. understand cases and their resolutions based on international law and their resolutions based on international law.
3. Contribute ideas in the form of problem-solving related to issues in the field of International Law
3. Able to explain and analyze the relationship between international politics and international law.
4. Able to describe and analyze current issues in international law.

Course Title. : **Intellectual Property Rights Law**
Course Code : HIH1624407
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course discusses the principles and methods and scope of Intellectual Property Rights (IPR) protection including copyright, trademark rights, patent rights, industrial design rights and trade secret rights, IPR transfer and license, and IPR dispute resolution.

Expected Learning Outcomes:

1. Have a strong sense of nationalism, love for the homeland, tolerance in social interactions, able to work together, have social sensitivity and concern for society and the environment; 2. Master and understand the theoretical concepts related to: Characteristics, structure and theory of human rights law; Sources, principles and norms of human rights law; International and national legal systems or systems related to human rights and the history of their development; 3. Master and understand basic knowledge related to positive law related to human rights, both in international law and national law; 4. Able to formulate ideas logically, critically and argumentatively in the field of law (human rights) and communicate them verbally and/or in writing, especially within the academic community, in accordance with academic ethics.

Course Title. : **International Humanitarian Law**
Course Code : PHIH6392
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This International Humanitarian Law course will specifically discuss the conduct of war and the protection of war victims, the International Red Cross and Red Crescent, and international justice for violations of International Humanitarian Law.

Expected Learning Outcomes:

1. Master and understand the definition, terms, principles, sources, and scope of International Humanitarian Law; 2. Analyze cases related to International Humanitarian Law, grounded in concepts and theories within International Humanitarian Law; 3. Formulate ideas logically and critically through the use of legal arguments, both verbally and in writing.

Course Title. : **International Economic Law**

Course Code : PHIH6385

Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course examines the legal norms and regulations governing economic activity between countries in the context of international trade, foreign investment, and global economic cooperation. The material covers international trade law based on WTO rules, free trade agreements (FTAs), foreign direct investment law, international intellectual property rights protection, and economic dispute resolution mechanisms in international forums. Furthermore, this course examines the role and function of international institutions such as the WTO, IMF, World Bank, and UNCTAD in regulating global economic policy. Through analysis of legal cases, students are encouraged to understand the implementation of international economic law principles and their impact on national legal policy.

Expected Learning Outcomes:

By the end of this course, students will be able to:
1. Understand the nature of international economic law
2. Understand and analyze various cases related to international economic law and/or international trade, particularly disputes under WTO agreements

Course Title. : **Aquatic Ecotourims**
Course Code : IMP1624635
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses the definition and basic concepts of ecotourism, the differences between nature tourism, sustainable tourism, and ecotourism, evaluating tourism attraction potential, analyzing impacts, measuring carrying capacity, assessing suitability, and planning tourism development and management.

Expected Learning Outcomes:

Students are able to identify tourism potential and attractions, explain the basic concepts and principles of ecotourism, and calculate carrying capacity and assess the suitability of an area for ecotourism development, taking into account the principles of ecotourism.

Course Title. : **Geographic Information System (GIS) for Fisheries Management**
Course Code : IMP1624648
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces students to the basic principles of remote sensing and Geographic Information Systems (GIS). The material covers the basics of remote sensing, satellite image processing, spatial analysis, and GIS applications for fisheries and marine resource management. This course aims to build competence in understanding, analyzing, and applying remote sensing and GIS technologies.

Expected Learning Outcomes:

Able to know and understand the basics of remote sensing and GIS for fisheries resource management in Indonesia

Course Title. : **Culture of Live Feed**
Course Code : IAK1624-421
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course covers the biology, cultivation, and application of live feed organisms in aquaculture, including phytoplankton, zooplankton, and annelids. Emphasis is placed on production techniques, nutritional enrichment methods, and small-scale culture systems for use in hatcheries and early life stages of aquaculture species. The course highlights the role of live feed in improving survival, growth, and health performance in aquaculture production.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to explain the concepts, advantages, and limitations of live feed culture; demonstrate knowledge of cultivation techniques for phytoplankton, zooplankton, and annelids; apply principles of nutritional enrichment to improve live feed quality; and evaluate the use of live feed resources to achieve production targets and support sustainable aquaculture practices.

Course Title. : **Hatchery Management**
Course Code : IAK1624-864
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces the principles and practices of hatchery management for fish, shrimp, and shellfish. Topics include hatchery design, infrastructure requirements, broodstock management, feed provision, and operational planning to support seed production. Emphasis is placed on efficiency, sustainability, and best management practices in aquaculture hatcheries.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to explain the concepts of hatchery design and operation; evaluate the requirements for infrastructure, broodstock, and feed; apply best practices in hatchery management; and utilize resources effectively to achieve production targets and sustainable aquaculture seed supply.

Course Title. : **Shellfish Aquaculture Management and Technology**
Course Code : IAK 1624-640
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course provides knowledge of shellfish biology and the principles of shellfish aquaculture, with emphasis on production systems, husbandry practices, and management strategies. Topics include seed production, feeding and nutrition, health management, water quality control, and the application of sustainable technologies to enhance commercial shellfish farming. The course also introduces business and spatial planning considerations relevant to the shellfish aquaculture industry.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to explain the biological and ecological principles of shellfish culture; apply techniques in seed production, nutrition, live feed, and health management; evaluate and manage water quality for sustainable production; analyze challenges in shellfish aquaculture systems; and integrate technological, environmental, and business aspects in decision-making for sustainable shellfish industry development.

Course Title. : **Urban Aquaculture**
Course Code : IAK 1624-645
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course explores aquaculture practices in urban environments, focusing on the use of limited space, innovative technologies, and resource-efficient systems such as recirculating aquaculture systems (RAS), aquaponics, and integrated farming. It examines opportunities and challenges of urban aquaculture for food security, environmental sustainability, and community development.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to explain the concepts and applications of urban aquaculture; evaluate the advantages and limitations of aquaculture in urban settings; apply good aquaculture practices to optimize resource use; and design strategies to achieve sustainable production in space-constrained environments.

Course Title. : **Quarantine and Transboundary Diseases**

Course Code : IAK1624-646

Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course examines the principles and practices of fish quarantine and biosecurity, with a focus on national and international regulations, quarantine facility management, and control of invasive and transboundary aquatic species. Students learn about the impact of fish diseases on production and biodiversity, as well as comparative approaches to quarantine regulations and invasive species management across different regions.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to explain the theories and concepts of fish quarantine and biosecurity; analyze national and international regulations related to fish health and invasive species; describe major transboundary and invasive diseases affecting aquaculture; compare regulatory frameworks across countries; and propose strategies for managing invasive species and safeguarding aquaculture production.

Aquatic Resources Management

Course Title. : **Aquatic Resources Management**
Course Code : PIMP 6015
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course learning about the importance of river basin resources, reservoirs/lakes, estuaries, mangroves, seagrass beds, and coral reefs for fisheries development; Damage to aquatic resources and its causes in Indonesia; and Efforts to manage aquatic resource ecosystems.

Expected Learning Outcomes:
By the end of this course, students will be able to analyze and understand the limitations of aquatic resource management, the potential and damage to aquatic resources, and approaches to aquatic resource management.

Course Title. : **Fish Stock Assessment & Monitoring**
Course Code : IMP1624426
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
Basic concepts of population and stock dynamics, growth estimation, recruitment, natural mortality, and fishing. Stock estimation methods, gear selection curves, production models, and analytical models.

Expected Learning Outcomes:
Students are able to understand the characteristics and dynamic factors in a fish population, analyze these factors, estimate fish stocks and their utilization for fisheries management.

Course Title. : **Aquatic Ecotourims**
Course Code : IMP1624635
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course discusses the definition and basic concepts of ecotourism, the differences between nature tourism, sustainable tourism, and ecotourism, evaluating tourism attraction potential, analyzing impacts, measuring carrying capacity, assessing suitability, and planning tourism development and management.

Expected Learning Outcomes:

Students are able to identify tourism potential and attractions, explain the basic concepts and principles of ecotourism, and calculate carrying capacity and assess the suitability of an area for ecotourism development, taking into account the principles of ecotourism.

Course Title. : **Geograhic Information System (GIS) for Fisheries Management**
Course Code : IMP1624648
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course introduces students to the basic principles of remote sensing and Geographic Information Systems (GIS). The material covers the basics of remote sensing, satellite image processing, spatial analysis, and GIS applications for fisheries and marine resource management. This course aims to build competence in understanding, analyzing, and applying remote sensing and GIS technologies.

Expected Learning Outcomes:

Able to know and understand the basics of remote sensing and GIS for fisheries resource management in Indonesia

Course Title. : **Marine Sedimentology**
Course Code : PIIK6009
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
The Marine Sedimentology course is a science that studies the formation of sediments / sediment rocks in the sea along with processes, and their deposition environment and factors that influence its formation

Expected Learning Outcomes:
Students are able to describe the formation processes, characteristics, and sedimentary properties, as well as their depositional environments

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Course Title. : **SCUBA Diving & Basic Rescue**
Course Code : PIIK6006
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
Scuba Diving & Basic Rescue Courses are given in the second semester, which is a course that studies various activities in the water environment, risks, and prevention. This course also studies diving theory and adaptation to water as the basis of diving skills.

Expected Learning Outcomes:
Students are able to explain various activities in the water environment, risks, and prevention. Students are also able to understand and explain theories about swimming, water trampling and upnea as well as the basics of self-rescue in water.

Course Title. : **Advanced coral reef science**
Course Code : LIIK6057
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course contains knowledge about the history of coral reef ecosystem studies, more knowledge about the biology of symbiosis in corals and various related processes, as well as about the dynamics of coral reef ecosystems, including ecological status, biodiversity, response to environmental changes (global warming, ocean acidification), as well as problem solving and conservation of coral reef ecosystems.

Expected Learning Outcomes:

Students are able to explain the history and perspectives of coral reef ecosystem studies, understand the roles of symbiosis, photosynthesis, and calcification in corals, analyze symbiotic dynamics and nutrient flows, evaluate regional and global disturbances to coral reefs, and recognize the importance of coral reef conservation.

Course Title. : **Captivity and Restocking of Endangered Species**
Course Code : PIIK6042
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course contains knowledge and understanding to students about Captivity and Restocking Endangered Species, which include kima, sea cucumber, turtle, crustacean (lobster).

Expected Learning Outcomes:

Students are able to master the principles and methods of captivity and restocking of endangered species, develop innovative approaches, and adapt problem-solving strategies for conservation purposes

Course Title. : **Conservation of Coastal & Marine Resources**
Course Code : PIIK6026
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
Students conduct analysis of the fundamentals of conservation of marine biota populations and communities based on hydrooseanography parameters. Students are able to discuss actively to provide solutions to these problems.

Expected Learning Outcomes:

By the end of this course, students are expected to be able to explain the ecological, social, and economic importance of coastal and marine ecosystems, and identify as well as analyze the major threats and challenges they face. They will be able to apply key concepts and approaches in planning and implementing conservation strategies, including marine protected areas and community-based management, and evaluate relevant policies, regulations, and governance frameworks.

Course Title. : **Planktonology**
Course Code : IKK00311P
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course learns about the concepts of planktonology in general, primary productivity of population dynamics and patterns of plankton distribution in the ocean as well as the food chain. This course contains terminology, taxonomy and characteristics of Phytoplankton that are domiciled such as the Chromophyta Division for the Bacillariophyceae class, the Dinophyta Division as well as several types of phytoplankton derived from the Chlorophyta Division, Cyanophyta, Rhodophyta. In this course, it is also studied about harmful algae which includes the process of occurrence, the types that can produce toxins.

Expected Learning Outcomes:

Students are able to understand the basic concepts of planktonology, apply sampling, preservation, and enumeration techniques, identify taxonomy, morphology, and habitat of various phytoplankton groups as well as meroplankton and holoplankton, explain the role of plankton in aquatic primary productivity, and analyze the concepts and processes of Harmful Algal Blooms (HABs).

Course Title. : **Seamanship**
Course Code : IIT1624205
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course explains the maritime aspects of capture fisheries, maritime techniques, navigation safety, fishing vessel administration, and vessel licensing SOP to support the maritime operations in the fisheries sector.

Expected Learning Outcomes:

By the end of this course, students are expected to be able to understand and explain the maritime aspects of capture fisheries, apply maritime techniques and navigation safety principles, and demonstrate knowledge of fishing vessel administration and licensing procedures. Students will also develop the competence to integrate these skills in supporting effective and compliant maritime operations within the fisheries sector.

Course Title. : **Fish Behaviour**
Course Code : IIT1624208
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

Fish behavior is a basic science related to the physiological organs of fish in carrying out daily activities, including responses and adaptations to the environment and their application when in contact with fishing gear and fishing aids, as well as for the purpose of conservation of fish belonging to the ETP (Endangered, Threatened and Protected) biota group.

Expected Learning Outcomes:

Students will be able to analyze the physiological organs and behavior of fish for fishing and are able to demonstrate the preparation and group study of PBL assignments given by lecturers and presented
through media or seminars in class.

Course Title. : Seamanship
Course Code : IIT1624205
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course explains the maritime aspects of capture fisheries, maritime techniques, navigation safety, fishing vessel administration, and vessel licensing SOP to support the maritime operations in the fisheries sector.

Expected Learning Outcomes:

By the end of this course, students are expected to be able to understand and explain the maritime aspects of capture fisheries, apply maritime techniques and navigation safety principles, and demonstrate knowledge of fishing vessel administration and licensing procedures. Students will also develop the competence to integrate these skills in supporting effective and compliant maritime operations within the fisheries sector.

Course Title. : Fish Behaviour
Course Code : IIT1624208
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
Fish behavior is a basic science related to the physiological organs of fish in carrying out daily activities, including responses and adaptations to the environment and their application when in contact with fishing gear and fishing aids, as well as for the purpose of conservation of fish belonging to the ETP (Endangered, Threatened and Protected) biota group.

Expected Learning Outcomes:

Students will be able to analyze the physiological organs and behavior of fish for fishing and are able to demonstrate the preparation and group study of PBL assignments given by lecturers and presented
through media or seminars in class.

Fish Product Technology

Course Title. : Food Chemistry and Nutrition of Fish

Course Code : IHP1624231

Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course provides an in-depth study of the chemical composition and nutritional value of fish and other aquatic organisms. It covers proteins, lipids, vitamins, minerals, and other bioactive compounds, and how these components are affected by handling, processing, and storage.

Expected Learning Outcomes:

Students will be able to analyze the proximate composition of fish, explain the nutritional significance of key components in fish, and predict changes in chemical and nutritional quality due to various processing methods.

Course Title. : Fisheries Product Quality Control

Course Code : IHP1624433

Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course introduces the fundamental principles and practices of quality control in the fisheries industry. It covers quality parameters, sampling techniques, statistical process control, quality standards, and the tools used to monitor and maintain product quality from raw material to finished goods.

Expected Learning Outcomes:

Students will be able to define key quality attributes for fisheries products, apply statistical tools for quality monitoring, develop a basic quality control plan, and interpret quality data to make informed decisions for continuous improvement.

Course Title. : Fisheries Product Biotechnology

Course Code : IHP1624435

Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course explores the application of biotechnology in fisheries product processing. Topics include enzyme technology, fermentation, genetic engineering for quality improvement, biopreservation, and the extraction of bioactive compounds for nutraceuticals and functional foods.

Expected Learning Outcomes:

Students will be able to describe various biotechnological applications in fisheries, explain the mechanisms behind techniques like enzymatic hydrolysis and biopreservation, and discuss the potential and ethical considerations of biotechnology in developing advanced fisheries products.

Course Title. : **Food Chemistry and Nutrition of Fish**
Course Code : IHP1624231
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course provides an in-depth study of the chemical composition and nutritional value of fish and other aquatic organisms. It covers proteins, lipids, vitamins, minerals, and other bioactive compounds, and how these components are affected by handling, processing, and storage.

Expected Learning Outcomes:

Students will be able to analyze the proximate composition of fish, explain the nutritional significance of key components in fish, and predict changes in chemical and nutritional quality due to various processing methods.

Course Title. : **Fisheries Product Quality Control**
Course Code : IHP1624433
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course introduces the fundamental principles and practices of quality control in the fisheries industry. It covers quality parameters, sampling techniques, statistical process control, quality standards, and the tools used to monitor and maintain product quality from raw material to finished goods.

Expected Learning Outcomes:

Students will be able to define key quality attributes for fisheries products, apply statistical tools for quality monitoring, develop a basic quality control plan, and interpret quality data to make informed decisions for continuous improvement.

Course Title. : **Fisheries Product Biotechnology**
Course Code : IHP1624435
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course explores the application of biotechnology in fisheries product processing. Topics include enzyme technology, fermentation, genetic engineering for quality improvement, biopreservation, and the extraction of bioactive compounds for nutraceuticals and functional foods.

Expected Learning Outcomes:

Students will be able to describe various biotechnological applications in fisheries, explain the mechanisms behind techniques like enzymatic hydrolysis and biopreservation, and discuss the potential and ethical considerations of biotechnology in developing advanced fisheries products.

Course Title. : **HACCP of Fisheries Products**
Course Code : IHP1624439
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course provides a comprehensive study of the Hazard Analysis Critical Control Point (HACCP) system as applied to fisheries products. Students will learn the seven principles of HACCP, how to conduct a hazard analysis, identify critical control points, establish monitoring procedures, and develop verification protocols.

Expected Learning Outcomes:

Upon completion, students will be competent in developing, implementing, and maintaining a HACCP plan specifically for a fisheries product processing line, ensuring the production of safe food in compliance with international standards.

Course Title. : **Functional Food**
Course Code : IHP1624649
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course focuses on the concept, development, and analysis of functional foods derived from fisheries resources. It covers bioactive compounds from fish and marine organisms (e.g., omega-3, chitosan, collagen), their health benefits, extraction methods, stability, and incorporation into food matrices.

Expected Learning Outcomes:

Students will be able to identify sources of bioactive compounds in marine materials, explain their health-promoting effects, design a process for creating a functional food product, and evaluate scientific claims associated with functional seafood products.

Course Title. : **Food Product Development**
Course Code : PPP-401
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course covers the principles, methods, and strategies in food product development, starting from consumer needs identification, formulation, sensory evaluation, to commercialization. Students will learn about innovation, safety, quality, and regulations in creating competitive and marketable food products.

Expected Learning Outcomes:

Explain the fundamental concepts of food product development.
Design new food formulations based on market needs and trends.
Conduct sensory and physicochemical tests to evaluate food products.
Develop food product prototypes considering nutrition, quality, and safety aspects.

Course Title. : **Science and Technology of Bread**
Course Code : PPP-408P
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores the science and technology of bread making, including raw material characteristics, fermentation processes, processing techniques, and innovations in modern bakery products. Students will understand how ingredients and processes affect bread texture, flavor, shelf life, and quality.

Expected Learning Outcomes:

Describe the functions and roles of raw materials in bread making.
Apply bread-making techniques with various fermentation methods.
Analyze factors influencing bread quality.
Develop innovative bread products tailored to consumer demands.

Course Title. : **Science and Technology of Meat**
Course Code : PPP-409P
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses the science and technology of meat processing, including composition, physicochemical properties, processing methods, and development of meat-based products. Students will also study food safety, quality issues, and technological innovations in the meat industry.

Expected Learning Outcomes:

Explain the composition, structure, and fundamental properties of meat.
Identify chemical and physical changes in meat during storage and processing.
Apply basic and advanced techniques for meat product processing.
Design innovative meat products while considering quality and safety aspects.

Course Title. : **Science and Technology of Milk**
Course Code : PPP-413P
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :
This course examines the science and technology of milk processing, covering composition, characteristics, preservation methods, processing techniques, and dairy product development. Students will also learn about quality control, safety, and innovative technologies in the dairy industry.

Expected Learning Outcomes:

Explain the composition, physicochemical properties, and nutritional value of milk.
Identify preservation and processing methods for milk and dairy products.
Analyze quality and safety issues in dairy products.
Develop innovative dairy products that meet consumer and market needs.

Course Title. : **Corporate Public Relations**
Course Code : VSH2624313
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses the basic concepts of public relations in the corporate sphere. Topics covered include definitions, historical development, functions, objectives, roles, methods, and models of public relations, the public within the public relations sphere, the dimensions/scope of PR, the differences between image and reputation, and the concept of public relations program planning.

Expected Learning Outcomes:

By the end of this course, students will be able to explain the concept of Public Relations which includes scope, history, definition of public, definition of relationships, dimensions, methods and techniques, functions and objectives, models, tasks and targets, and planning of public relations programs, able to analyze public relations problems that arise in the company and entertainment industry, able to apply problem solving through planning public relations programs in the company and entertainment industry.

Course Title. : **Government Public Relations**
Course Code : VSH2624317
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course provides an understanding and practice of proper methods and techniques for preparing to become a government public relations professional, as a key competency for becoming a skilled PR professional. Furthermore, this course teaches how to measure and analyze government public relations performance.

Expected Learning Outcomes:

By the end of this course, students will be able to explain the basic concepts of government public relations, including definitions, benefits, requirements and regulations related to government public relations, organizational communication, public opinion, and good governance, able to analyze problems faced by government public relations in the era of public information disclosure, and able to apply problem solving to government public relations problems in the era of public information disclosure.

Course Title. : **Public Speaking**
Course Code : VSH2624315
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course discusses the basic concepts of public speaking which include elements, types, public speaking ethics, emotional management and self-confidence, topic selection, obstacles in public speaking, audience analysis, situation and event venue, as well as public speaking techniques orally (intonation, articulation, tempo, volume), non-verbally (gestures, expressions, eye contact) and in writing in the form of text/or outline (opening, body, closing) with the use of necessary supporting media.

Expected Learning Outcomes:

By the end of this course, students will be able to understand the basic concepts and techniques of public speaking, able to apply public speaking techniques orally, both verbally and non-verbally, as well as in writing in the form of outlines and texts/scripts, able to analyze the audience/characteristics of the person being spoken to, the situation and location of the event, anxiety, and factors that influence a person when doing public speaking.

Course Title. : **Records Management and Practicum**
Course Code : VSH2624312
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course discusses the concepts, principles, and techniques of managing active archives, inactive archives, and vital archives that support the implementation of organizational tasks and functions. The material includes the definition, types, and utility values of archives, archival organizations, dynamic archive management instruments, active archive filing, inactive archive arrangement, implementing the vital archive program, archive storage, archive reduction, archive access and services. Students will also learn the application of national archival regulations.

Expected Learning Outcomes:

After taking this course, students are expected to be able to manage dynamic archives effectively, efficiently, accountably, and in accordance with applicable legal provisions.

Course Title. : **MICE Management**
Course Code : VSH2624527
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course discusses the basic concepts of MICE, event management as part of the Public Relations field. MICE and Event Management outlines the technical aspects of managing events effectively and efficiently to achieve the public relations interests of corporations or government agencies.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the concept of planning and managing MICE activities, be able to identify and manage relationships with stakeholders in MICE activities, be able to apply an activity to solve problems, and be able to apply publications of MICE activities both orally and in writing.

Course Title. : **Tourism Public Relations**
Course Code : VSH2624526
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course equips students with practical skills in producing various audio-based Public Relations media. Students will learn the use of software to create audiovisuals and the operation of an audio mixer to produce audio content that supports public relations activities. The focus of learning is directed towards mastering creative, effective, and industry-standard production techniques.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts of tourism, tourism communication, tourism branding and destination branding, be able to identify audiences in the tourism sector, be able to design messages aimed at tourism branding, and be able to produce digital content aimed at tourism branding.

Course Title. : **International Public Relations**
Course Code : VSH2624529
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course provides knowledge and practical skills on planning international PR programs for multinational companies, NGOs, or other organizations with international missions, taking into account the differences in social and cultural backgrounds and technology of the target foreign public.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts of international PR, including the concepts of globalization, international communication, global press and media, international advertising, be able to identify international actors/stakeholders involved in international PR practices, be able to explain the concept of international PR program planning, be able to analyze public relations problems faced by government agencies/DUDI/NGOs in the global scope, and be able to apply problem solving to public relations problems in the global scope through the creation of international PR programs.

Course Title. : **Production of Public Relations Media**
Course Code : VSH2624528
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course equips students with practical skills in producing various Public Relations media, both paper-based and audio. Students will learn the use of graphic design software to create print PR media and the operation of an audio mixer to produce audio content that supports public relations activities. The focus of learning is directed towards mastering creative, effective, and industry-standard production techniques.

Expected Learning Outcomes:

After studying this course, students are expected to be able to design messages that aim to support the delivery of information through print and audio content and be able to produce digital content that aims to support the delivery of information through print and audio content.

Course Title. : **Data and Information Visualization**
Course Code : VSH2624532
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course covers the basic concepts and techniques of data visualization, including how to create effective visualizations using various tools and software. The primary focus is on the application of data visualization in various contexts, such as libraries, businesses, and public relations communications, to improve understanding and data-driven decision-making. Students will learn various types of charts and visualization tools, as well as analytical techniques to ensure information is presented clearly and usefully.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts of data visualization, be able to apply data visualization concepts using tools and software, and students are able to apply data visualization techniques in the context of information and libraries, companies, and public relations communications.

Course Title. : **Digital Marketing Public Relations**
Course Code : VSH2624534
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores the concepts, strategies, and practices of public relations marketing in the digital era. Students will learn the integration of marketing, public relations, and digital marketing through an integrated marketing communications approach. The learning focus includes the digital marketing funnel, digital marketing formulas, SEO & SEM, the use of digital tools, marketing psychology, website performance and UX, and social media strategy and analysis.

Expected Learning Outcomes:

After completing this course, students are expected to be able to explain the concept of information management in the scope of public relations marketing and marketing implementation using digital platforms, analyze the development and impact of digitalization in the scope of public relations marketing, identify and analyze public relations marketing problems in the government/corporate/MSME sector using digital platform tools, and be able to implement public relations marketing programs in the government/corporate/MSME sector on digital platforms.

Course Title. : **Information and Public Relations Services**
Course Code : VSH2624205
Credits : **4.8 ECTS** Type of Courses : -

Course Description :

This Information Services and Public Relations course is designed to provide an in-depth understanding of the theory and practice of information services and public relations. In this course, students will learn the various techniques and media used in information services and public relations, as well as analyze the needs and challenges that arise in practice.

Expected Learning Outcomes:

By the end of this course, students will be able to explain the Basics of Information and Public Relations Services, Analyze Needs and Challenges in Information and Public Relations Services, Techniques and Media in Information and Public Relations Services.

Course Title. : **Digital Public Relations Strategy**
Course Code : VSH2624420
Credits : **4.8 ECTS** Type of Courses : -

Course Description :

This course covers an understanding of public relations (PR) strategies in the digital era, developing plans, strategies, and implementing relevant and effective PR activities, identifying and analyzing environmental problems, and implementing creative solutions through PR programs, particularly by utilizing the power of digital platforms as the primary tool for achieving communication goals.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the concept of cyber PR and be able to explain the stages of PR planning based on PR planning models.

Course Title. : **Corporate Social Responsibility**
Course Code : VSH2624421
Credits : **4.8 ECTS** Type of Courses : -

Course Description :
This course discusses the development of Corporate Social Responsibility (CSR), types of CSR initiatives, partnerships in CSR and CSR case studies.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts and principles of Corporate Social Responsibility in the context of communication and public relations, be able to analyze problems related to social and environmental issues that occur both inside and outside the company's scope, and be able to apply problem solving in the form of Corporate Social Responsibility program design to the results of problem analysis related to social and environmental issues that occur both inside and outside the company's scope.

Course Title. : **Crisis Management**
Course Code : VSH2624423
Credits : **4.8 ECTS** Type of Courses : -

Course Description :
This course discusses the concepts of program planning, identification, and analysis of environmental problems, as well as the application of problem-solving in the fields of information management and public relations. Topics covered include the application of oral and written service concepts, needs analysis, and stakeholder relationship management.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts of issue management, crisis management, and reputation, be able to analyze the types, sources, stages, and models of crisis management through case studies, be able to apply problem solving to organizational communication crises through case studies, be able to analyze stakeholder needs during a crisis, and be able to manage relationships with stakeholders during a crisis.

Course Title. : **Social Media Campaign**
Course Code : VSH2624635
Credits : **4.8 ECTS** Type of Courses : -

Course Description :
This course focuses on the theoretical and practical dimensions of social media campaigns. The theoretical aspect provides a scientific foundation for campaign studies, while the practical aspect provides guidance on how to plan, implement, and evaluate a social media campaign program.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the basic concepts of campaigns, digital communication, social media development, virtual communities, be able to explain the stages of social media campaign planning, be able to analyze an organization's social media problems, and apply problem solving to an organization's social media problems through creating social media campaigns.

Course Title. : **Multiplatform Content Creating**
Course Code : VSH2624636
Credits : **4.8 ECTS** Type of Courses : -

Course Description :
This course equips students with the skills to produce and deliver messages across multiple platforms to build engagement with target audiences in an increasingly convergent media environment and create the potential for positive viral content.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the concept of information processing and delivery through storytelling, the characteristics of information and messages on each platform, analyze the characteristics of platforms used for information dissemination, apply information according to platform characteristics, and produce digital content across various platforms.

Course Title. : **Media Monitoring and Analysis**
Course Code : VSH2624635
Credits : **4.8 ECTS** Type of Courses : -

Course Description :

This course discusses how to understand, analyze, and monitor media content, both traditional and digital. Students will learn the basic concepts of media content analysis, framing, agenda setting, social listening, and sentiment analysis. Furthermore, this course introduces the use of various media and social media monitoring software, the development of indicators (metrics & KPIs), and systematic reporting techniques for monitoring results. Through a theoretical, practical, and actual case study approach, students are expected to be able to identify issues, crises, and organizational reputation in the media, as well as present data-driven media analysis reports relevant to strategic communication needs.

Expected Learning Outcomes:

After studying this course, students are expected to be able to explain the concept of program planning in the field of information and public relations, especially those related to media analysis and monitoring, be able to analyze environmental problems in the field of information and public relations through the ability to identify issues, framing, agenda setting, public sentiment, and opinion dynamics in traditional and digital media, be able to apply problem solving based on the results of media analysis using relevant methods, tools, and performance indicators (KPIs) to compile recommendations and monitoring reports that can support strategic communication decision making, and be able to operate media monitoring and analysis software both manually and digitally.

Course Title. : **Information Management System**

Course Code : VSH2624636

Credits : **4.8 ECTS** Type of Courses : -

Course Description :

This course covers the fundamentals of information management systems, including concepts, principles, and their application in the context of digital and current technology. One of the main focuses is the introduction of Database Management Systems (DMS) as software for systematic data management. Students will learn how to design, implement, and evaluate information management systems using simple DMSs such as Microsoft Access, LibreOffice Base, and Google Sheets/Drive to support information management and public relations needs. Students not only understand the concepts but also practice the use of DMS through mini-projects and real-life case studies, thus developing analytical and application skills.

Expected Learning Outcomes:

After completing this course, students are expected to be able to explain the basic concepts and principles of information management systems, analyze problems in information management and formulate technology-based solutions, and design and implement simple information management systems according to organizational needs.

Course Title. : **Logistics Transportation**
Course Code : VMA2624422
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces students to the principles, modes, and management of transportation in logistics. Topics include multimodal transport, cost analysis, infrastructure, and regulatory frameworks in domestic and international contexts

Expected Learning Outcomes:

By the end of this course, students will be able to explain the roles and functions of transportation in logistics, analyze costs and efficiencies of different transport modes, and apply multimodal strategies to optimize logistics operations.

Course Title. : **Freight Management**
Course Code : VMA2624423
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
Covers freight forwarding, cargo handling, and documentation processes in global trade. Students learn about carriers, freight rates, and international conventions affecting goods movement.

Expected Learning Outcomes:

By the end of this course, students will be able to understand freight forwarding processes, prepare and analyze freight documentation, and evaluate cost and risk factors in freight operations.

Course Title. : **Export Import**
Course Code : VMA2624428
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
An overview of international trade mechanisms, focusing on export-import procedures, regulations, and practices in global commerce.

Expected Learning Outcomes:

By the end of this course, students will be able to explain export-import procedures and regulations, apply Incoterms and related trade practices, and evaluate challenges in cross-border trade operations.

Course Title. : **Freight Insurance**
Course Code : VMA2624425
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces the principles of freight insurance in logistics and international trade, including coverage types, risk management, and claims procedures.

Expected Learning Outcomes:
By the end of this course, students will be able to explain the role of freight insurance, distinguish types of coverage, and apply basic claims procedures in logistics operations.

Course Title. : **Ocean Logistics**
Course Code : VMA2624635
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
Focuses on shipping, port operations, and maritime logistics. Students explore container shipping, vessel operations, and international maritime regulations.

Expected Learning Outcomes:
By the end of this course, students will be able to explain ocean transport systems and operations, analyze cost structures in maritime logistics, and apply international maritime conventions in logistics planning.

Course Title. : **Green Logistics**
Course Code : VMA2624636
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
Explores sustainable logistics practices, including energy efficiency, waste management, and environmentally friendly supply chains.

Expected Learning Outcomes:
By the end of this course, students will be able to explain sustainability concepts in logistics, assess the environmental impact of logistics activities, and propose strategies to support green and sustainable trade.

Course Title. : **Dangerous Goods**
Course Code : VMA2624638
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
Covers handling, packaging, storage, and transport of hazardous materials in compliance with international standards (IATA, IMO, ADR).

Expected Learning Outcomes:

By the end of this course, students will be able to identify classes and categories of dangerous goods, apply international regulations for handling hazardous materials, and develop risk mitigation plans for dangerous goods logistics.

Course Title. : **Containerization**
Course Code : VMA2624639
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
Provides knowledge on container types, operations, and management in global supply chains. Topics include intermodal transport, terminal operations, and efficiency.

Expected Learning Outcomes:

By the end of this course, students will be able to explain the role of containerization in global logistics, differentiate container types and uses, and apply container management strategies in logistics operations.

Course Title. : **Intercultural Communication**
Course Code : VBA2624210
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course provides a platform for students to engage in discussions about cross-cultural communication and understanding from different cultural background. The topics cover cultural values, address terms, social relationship, attitudes, and non-verbal communication across different cultures. The students will look at some cases available online and conduct a project requiring them to communicate with people from different nations.

Expected Learning Outcomes:
By the end of this course, students will be able to understand further about how different cultures demonstrate different perception on specific matters and how this affects the way they communicate. The students will develop communication skills with a sense of emphaty and respect for diversity when interacting with people from different cultural backgrounds, particularly in the context of cosmpolised society.

Course Title. : **Business English Communication**
Course Code : VBA2624446
Credits : **3.2 ECTS** Type of Courses : -

Course Description :
This course familiarizes students with some common types of English spoken communication in business settings, including formal introduction, socializing, phone call, business presentation, to negotiation. The students will learn communication strategies needed to impress their business partners, colleagues, and clients. During the course, students will conduct simulations of business communication.

Expected Learning Outcomes:
By the end of this course, students will be able to decide what communication strategies they need to choose in different settings of business communication. The students will have experience of practicing English spoken communication in business settings.

Course Title. : Business Japanese Communication
Course Code : VBA2624456
Credits : **3.2 ECTS** Type of Courses : -

Course Description :
This course allows students to delve into Japanese spoken communication in business settings. The students will learn about cultural-specific value in Japanese business context. Furthermore, the students will learn communication strategies needed to effectively interact with their business partners, colleagues, and clients. During the course, students will conduct simulations of business communication.

Expected Learning Outcomes:
By the end of this course, students will be able to understand about culturally-specific characteristics of communication in Japanese business setting. They will be able to decide what communication strategies they need in different settings of business communication. The students will have experience of practicing Japanese spoken communication in business settings.

Course Title. : English Writing in Professional World
Course Code : VBA2624447
Credits : **3.2 ECTS** Type of Courses : -

Course Description :
The course teaches students about English written communication in professional settings, including language styles, common goals in professional communication, and types of written communication (written introduction, accepting or rejecting a job offer, making announcement, and other internal communication within companies). This course will require the students to practice their English writing in simulated professional settings and make a portofolio of their writing.

Expected Learning Outcomes:
By the end of this course, students will understand communicative strategies in professional settings. Furthermore, they will have some experience of solving problems in a simulated English professtional settings. They will also have a portofolio covering their writing during the course.

Course Title. : **Japanese Interpreting**
Course Code : VBA2624686
Credits : **3.2 ECTS** Type of Courses : -

Course Description :
The course allows students to understand issues in Japanese interpreting and how to be interpreters for Japanese language. The course also discusses strategies in simultaneous and consecutive interpreting. The students will have a series of interpreting practicum.

Expected Learning Outcomes:

By the end of the course, students will be able to determine strategies for Japanese interpreting in different settings. The students will have experience of simulation of being an interpreter for Japanese language.

Course Title. : **MICE**
Course Code : VBA2624680
Credits : **3.2 ECTS** Type of Courses : -

Course Description :
The course provides a comprehensive overview of the Meetings, Incentives, Conferences, and Exhibitions (MICE) industry. It's designed to equip students with the knowledge and skills needed to plan, manage, and execute professional events. The curriculum typically covers the entire event lifecycle, from initial conceptualization and budgeting to post-event evaluation and client relationship management. The students will practice their skills in event-organizing and working in team through a project of holding an event.

Expected Learning Outcomes:

Students are expected to be able to understand the key components, stakeholders, and economic impact of the MICE industry. By the end of the course, they will have developed and executed strategic plans for various types of events, including meetings, incentive trips, conferences, and exhibitions.

Course Title. : **Ethics in Profession**
Course Code : VBA2624438
Credits : **3.2 ECTS** Type of Courses : -

Course Description :

The course is designed to provide students with a foundational understanding of ethical theories and principles as they apply to a professional context. It challenges students to recognize and navigate complex moral dilemmas and social responsibilities that are not always addressed by legal or company policies. The course covers a range of topics, including professional codes of conduct, conflicts of interest, compliance and the ethical implications of emerging technologies.

Expected Learning Outcomes:

Upon completion of the course, students will develop the ability to spot ethical issues in a professional environment, evaluate conflicting values, and make sound judgments. Students will be able to assess the societal, environmental, and cultural impacts of their professional actions and the decisions of their organizations. Furthermore, Students will practice articulating and defending their ethical positions clearly and persuasively, fostering a culture of integrity and transparency.

Course Title. : **English and Front Office**
Course Code : VBA2624444
Credits : **3.2 ECTS** Type of Courses : -

Course Description :

The course is a specialized training program designed to equip students with the linguistic and professional skills required to excel in a front-office role, particularly within the hospitality industries. The course combines practical English language instruction with core front-office operational knowledge. It focuses on developing strong verbal and written communication skills for interacting with guests from diverse backgrounds, handling inquiries, and managing day-to-day reception tasks.

Expected Learning Outcomes:

By the end of the course, students will demonstrate fluency in spoken and written English for common front-office scenarios, including greetings, check-ins, check-outs, and phone calls. Furthermore, the students will understand and apply cultural sensitivity and appropriate etiquette when interacting with guests and colleagues from different countries.

Course Title. : **Energy Regulation and Policy Analysis**
Course Code : CEN1824201
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course examines the frameworks, regulations, and policies governing energy systems at national and international levels. It highlights the role of policy in shaping energy markets, sustainability, and technological adoption.

Expected Learning Outcomes:

Students will be able to analyze and evaluate energy policies, assess their impact on stakeholders, and recommend strategies for effective and sustainable policy implementation.

Course Title. : **Energy Economics**
Course Code : CEN1824202
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course explores the economic principles related to energy production, distribution, and consumption. It covers market structures, pricing, investment analysis, and the economics of renewable versus non-renewable resources.

Expected Learning Outcomes:

Students are expected to apply economic theories and tools to analyze energy markets, evaluate investment decisions, and assess the economic feasibility of energy projects.

Course Title. : **Renewable Energy Technologies**
Course Code : CEN1824203
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course covers the principles, design, and applications of renewable energy technologies including solar, wind, hydro, biomass, and geothermal. It emphasizes innovation and integration of renewables into modern energy systems.

Expected Learning Outcomes:

Students will be able to evaluate the technical and economic performance of renewable energy technologies, propose integration strategies, and assess their role in achieving energy sustainability.

Course Title. : **Thesis Proposal**
Course Code : CEN1824204
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course guides students through the process of preparing and defending a thesis proposal. It includes the formulation of research questions, literature review, methodology design, and research plan development.

Expected Learning Outcomes:

By the end of this course, students are expected to prepare a scientifically sound and feasible thesis proposal, demonstrate originality in research design, and present their proposal effectively for academic approval.

Course Title. : **Research Seminar**
Course Code : CEN1824401
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course provides a platform for students to present and defend their research findings in a formal academic setting. It emphasizes critical discussion, peer feedback, and constructive evaluation to strengthen the quality of the research. Students are trained to communicate complex ideas clearly, respond to academic critiques, and refine their thesis based on input from supervisors and examiners.

Expected Learning Outcomes:

By completing this course, students are able to present research findings in a structured and scholarly manner, engage in critical academic discussions, integrate feedback into their work, and demonstrate progress toward a final thesis that meets academic standards.

Course Title. : **Thesis**
Course Code : CEN1824402
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

The thesis is the core academic requirement of the Master's program in Energy. It represents an independent research project where students identify a significant problem in the energy field, design and implement a rigorous methodology, analyze data, and propose innovative solutions. The thesis process spans multiple semesters, integrating research proposal, data collection, analysis, seminar, publication, and defense.

Expected Learning Outcomes:

Through the thesis, students are expected to demonstrate the ability to conduct original and independent research, apply interdisciplinary knowledge, contribute to solving real-world energy challenges, and produce scholarly work that advances both theory and practice in sustainable energy development.

Course Title. : **Geothermal Systems and Technology**
Course Code : CEN1824206
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

The thesis is the core academic requirement of the Master's program in Energy. It represents an independent research project where students identify a significant problem in the energy field, design and implement a rigorous methodology, analyze data, and propose innovative solutions. The thesis process spans multiple semesters, integrating research proposal, data collection, analysis, seminar, publication, and defense.

Expected Learning Outcomes:

Through the thesis, students are expected to demonstrate the ability to conduct original and independent research, apply interdisciplinary knowledge, contribute to solving real-world energy challenges, and produce scholarly work that advances both theory and practice in sustainable energy development.

Course Title. : **Bioenergy**
Course Code : CEN1824207
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course introduces students to geothermal energy as a sustainable energy resource. It covers geothermal reservoir characteristics, exploration methods, drilling technology, power plant design, and environmental considerations. Students will also examine real-world geothermal projects and technological innovations in this field.

Expected Learning Outcomes:

Upon completion, students are able to explain geothermal resource potential, design basic geothermal energy systems, assess environmental and economic feasibility, and propose strategies for optimizing geothermal technology for sustainable development.

Course Title. : **Solar and Wind Energy**
Course Code : CEN1824208
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

The course covers fundamental and applied aspects of solar photovoltaic (PV), solar thermal, and wind power technologies. It examines resource assessment, system design, integration with power grids, and emerging innovations in solar and wind applications.

Expected Learning Outcomes:

Students are expected to design and evaluate solar and wind energy systems, calculate resource potential, and propose technical solutions for integrating intermittent renewable energy into the energy mix.

Course Title. : **Hydropower**
Course Code : CEN1824209
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course provides knowledge of hydropower systems ranging from micro-hydro to large-scale hydroelectric plants. It includes hydrology, turbine design, dam safety, environmental impact, and sustainable water-energy nexus concepts

Expected Learning Outcomes:

Graduates of this course will be able to assess hydropower potential, design small-scale hydro systems, evaluate environmental impacts, and apply sustainable water management in energy production

Course Title. : **Software for Energy Modeling**
Course Code : CEN1824210
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
Students are introduced to specialized software and computational tools for modeling, simulation, and optimization of energy systems. Topics include demand forecasting, resource management, system dynamics, and scenario analysis.

Expected Learning Outcomes:

Students will be able to apply energy modeling software to simulate scenarios, predict energy demand and supply, and support decision-making in energy policy and planning.

Course Title. : **Energy Management Systems**
Course Code : CEN1824211
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses principles and practices of energy management in industrial, commercial, and residential sectors. Topics include ISO 50001 standards, energy efficiency strategies, monitoring systems, and cost-benefit analysis.

Expected Learning Outcomes:

Students will be able to implement energy management systems, design efficiency programs, and apply international standards for energy conservation and performance improvement.

Course Title. : **Energy Conservation and Audit Techniques**
Course Code : CEN1824212
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

The course emphasizes practical approaches to energy conservation and energy auditing in buildings, industries, and transportation systems. Students will learn to perform energy audits, identify inefficiencies, and recommend conservation measures.

Expected Learning Outcomes:

By completing this course, students can conduct comprehensive energy audits, quantify energy savings, and design conservation programs that align with sustainability goals.

Course Title. : **Fuel Cells and Hydrogen Energy**
Course Code : CEN1824213
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course covers principles, technologies, and applications of hydrogen and fuel cells as clean energy carriers. Topics include hydrogen production, storage, distribution, and utilization in fuel cell systems.

Expected Learning Outcomes:

Students will be able to explain hydrogen's role in the energy transition, evaluate fuel cell technologies, and assess the feasibility of hydrogen-based energy systems for future applications

Course Title. : **Nuclear and Plasma Energy**
Course Code : CEN1824214
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
The course introduces nuclear fission and fusion principles, plasma physics, reactor design, safety issues, and advanced nuclear technologies. It also explores future potential of fusion energy and its global implications.

Expected Learning Outcomes:

Students are expected to analyze the role of nuclear and plasma energy in sustainable energy development, understand safety and regulatory frameworks, and evaluate the prospects of fusion as a long-term energy solution.

Course Title. : **Standardization Systems**
Course Code : CEN1824215
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses international and national standards related to energy technologies, quality control, certification, and regulatory frameworks. Emphasis is placed on harmonization of standards for renewable and conventional energy systems.

Expected Learning Outcomes:

Students will be able to apply relevant energy standards, evaluate compliance, and ensure the quality and safety of energy technologies through standardization practices

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Course Title. : **Batteries and Energy Storage**
Course Code : CEN1824216
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
The course explores technologies for energy storage including batteries, supercapacitors, and hybrid systems. Topics cover electrochemistry, design, applications in renewable integration, and recycling challenges.

Expected Learning Outcomes:

Students will be able to compare storage technologies, design battery-based systems, and propose solutions for enhancing reliability and sustainability of energy storage applications.

Course Title. : **Energy Transition**
Course Code : CEN1824217
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course examines global and national pathways for transitioning from fossil fuels to sustainable energy systems. It includes socio-economic, technological, and policy perspectives on decarbonization and climate goals.

Expected Learning Outcomes:

Students are able to analyze energy transition strategies, evaluate policy frameworks, and propose actionable roadmaps for achieving sustainable and equitable energy systems

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Course Title. : **Power Plant Systems and Technology**
Course Code : CEN1824218
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course focuses on the design, operation, and performance of power generation systems including thermal, combined-cycle, and renewable-based plants. Topics include efficiency optimization, emissions control, and system integration.

Expected Learning Outcomes:

Students will be able to evaluate different power plant technologies, assess operational efficiency, and recommend improvements for cleaner and more reliable power generation.

Course Title. : **Energy Planning Systems**
Course Code : CEN1824219
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces energy planning methods and tools at local, regional, and national levels. Topics include integrated resource planning, demand-supply forecasting, policy instruments, and multi-criteria decision-making.

Expected Learning Outcomes:

Students will be able to design energy planning models, evaluate policy impacts, and recommend strategies for sustainable and resilient energy systems.

Course Title. : **Scientific Article Writing Techniques**
Course Code : CEN1824217
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course provides Doctor students with advanced skills in academic writing and scientific publication, with a focus on producing high-quality articles for reputable international journals. It covers the structure of scientific papers, logical argumentation, citation and referencing standards, ethical issues in publication, and strategies for selecting target journals. Emphasis is placed on clarity, coherence, originality, and the ability to communicate complex research findings to diverse academic audiences. Students also practice peer-review techniques and manuscript revision based on reviewer feedback.

Expected Learning Outcomes:

By completing this course, students will be able to design and write scientific articles that meet international standards, articulate complex research ideas in a structured and compelling manner, apply ethical principles in publication, and demonstrate the ability to contribute original knowledge to the global discourse on energy.

Course Title. : **Dissertation Proposal**
Course Code : CEN1824218
Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :
This course provides Doctor students with advanced skills in academic writing and scientific publication, with a focus on producing high-quality articles for reputable international journals. It covers the structure of scientific papers, logical argumentation, citation and referencing standards, ethical issues in publication, and strategies for selecting target journals. Emphasis is placed on clarity, coherence, originality, and the ability to communicate complex research findings to diverse academic audiences. Students also practice peer-review techniques and manuscript revision based on reviewer feedback.

Expected Learning Outcomes:

By completing this course, students will be able to design and write scientific articles that meet international standards, articulate complex research ideas in a structured and compelling manner, apply ethical principles in publication, and demonstrate the ability to contribute original knowledge to the global discourse on energy.

Course Title. : **Publication II**
Course Code : CEN1924401
Credits : **19.2 ECTS** Type of Courses : Mandatory

Course Description :
This course is a continuation of Scientific Publication I and focuses on advancing Doctor students' capacity to publish their research in high-impact, internationally indexed journals. While the first publication course emphasized the fundamentals of preparing and submitting manuscripts, this course requires students to refine their academic writing, respond effectively to peer-review feedback, and strengthen the theoretical and methodological contributions of their research. Students are encouraged to target higher-ranked journals (Scopus Q1/Q2 or equivalent) and to ensure that their work demonstrates significant novelty and scholarly impact in the field of energy.

Expected Learning Outcomes:

Upon completing this course, students are able to produce and submit manuscripts of international quality that demonstrate originality and rigor, address reviewers' comments with academic maturity, and contribute substantial theoretical or practical innovations to the global energy research community.

Course Title. : **Innovation in Sustainable Energy**
Course Code : CEN1924203
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course explores technological and managerial innovations that accelerate sustainable energy development. It emphasizes creativity, entrepreneurship, and applied research in energy innovation

Expected Learning Outcomes:

Students are able to generate and apply innovative ideas in sustainable energy development, assess their technical and economic feasibility, and design innovative projects.

Course Title. : **Energy Audit and Standardization**
Course Code : CEN1924204
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course provides knowledge and skills for conducting energy audits and implementing energy efficiency standards. It covers methodologies, tools, and reporting frameworks.

Expected Learning Outcomes:

Students are able to conduct energy audits, analyze efficiency levels, and propose solutions aligned with international standards.

Course Title. : **Energy Efficiency and System Integration**
Course Code : CEN1924205
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course examines strategies for improving energy efficiency and integrating multiple energy systems, including renewable, conventional, and smart grid technologies.

Expected Learning Outcomes:

Students are able to design integrated energy systems, optimize efficiency, and evaluate performance across diverse technologies

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Course Title. : **Power Plant Engineering I**
Course Code : CEN1924206
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course discusses the design, operation, and performance of thermal power plants, including fossil-fuel and combined-cycle systems

Expected Learning Outcomes:

Students are able to analyze thermal power plant performance, evaluate technologies, and propose improvements for efficiency and sustainability.

Course Title. : **Power Plant Engineering II**
Course Code : CEN1924207
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course focuses on renewable-based power plants such as biomass, geothermal, wind, and solar power generation systems.

Expected Learning Outcomes:

Students are able to design renewable-based power plants, assess their performance, and integrate them into national grids

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Course Title. : **Power Plant Engineering III**
Course Code : CEN1924208
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course integrates knowledge of various power generation systems, addressing hybrid systems, grid connection, and reliability issues.

Expected Learning Outcomes:

Students are able to integrate multiple power generation technologies, optimize hybrid systems, and evaluate sustainability and resilience

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Course Title. : **Advanced Power Plant Technology**
Course Code : CEN1924209
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course covers advanced power generation technologies such as supercritical plants, carbon capture, and next-generation renewables.

Expected Learning Outcomes:

Students are able to evaluate advanced power plant technologies, assess environmental impacts, and propose innovative solutions for sustainable power generation.

Course Title. : **Energy Engineering**
Course Code : CEN1924210
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course provides a comprehensive overview of engineering applications in energy, including design, operation, and optimization across different energy technologies.

Expected Learning Outcomes:

Students are able to apply engineering principles to energy system design, evaluate performance, and propose innovative engineering solutions.

Course Title. : **Environmental Law and Policy**
Course Code : P-CIL-8-201
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course introduces the foundations of environmental law and policy at both national and international levels. It covers regulatory frameworks, legal instruments, and policy mechanisms that guide environmental protection and sustainable resource management. The role of institutions, stakeholders, and enforcement systems is also emphasized.

Expected Learning Outcomes:

By completing this course, students are expected to understand the legal and policy frameworks governing environmental management, critically evaluate the effectiveness of regulatory instruments, and apply legal perspectives in analyzing environmental issues and proposing solutions.

Course Title. : **Environmental Impact Analysis**
Course Code : P-CIL-8-202
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :
This course provides knowledge and skills in Environmental Impact Assessment (EIA) as a tool for sustainable development planning. It covers the principles, processes, and methodologies of EIA, including scoping, baseline studies, impact prediction, mitigation, and monitoring.

Expected Learning Outcomes:

Students completing this course are expected to demonstrate the ability to design and evaluate environmental impact assessments, analyze the ecological and socio-economic implications of development projects, and recommend measures to minimize negative impacts

Course Title. : **Environmental and Disaster Risk**
Course Code : P-CIL-8-203
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course explores the interconnection between environmental hazards and disaster risks. It examines the causes, impacts, and management of natural and anthropogenic disasters, with a focus on risk assessment, vulnerability reduction, and resilience building.

Expected Learning Outcomes:

Upon completion, students are expected to understand the drivers of environmental and disaster risks, analyze vulnerabilities within communities and ecosystems, and propose integrated strategies to reduce risks and enhance resilience

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Course Title. : **Environmental Planning Theories**
Course Code : P-CIL-8-204
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course examines theoretical frameworks and models in environmental planning. It discusses the evolution of planning theories and their application to environmental and spatial planning at local, regional, and national levels.

Expected Learning Outcomes:

By the end of this course, students are expected to critically analyze various planning theories, evaluate their relevance to contemporary environmental challenges, and apply theoretical perspectives to formulate sustainable planning strategies.

Course Title. : **Natural Resources and Environment Conservation**
Course Code : P-CIL-8-205
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course focuses on the principles and practices of conserving natural resources and protecting ecosystems. It explores biodiversity conservation, sustainable resource use, and ecosystem-based management approaches

Expected Learning Outcomes:

Students completing this course are expected to be able to assess the status and threats to natural resources, evaluate conservation strategies, and design sustainable management plans that integrate ecological, social, and economic considerations.

Course Title. : **Disaster mitigation**
Course Code : P-CIL-8-206
Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course introduces strategies and practices for reducing disaster risks and impacts. It covers structural and non-structural mitigation measures, community-based approaches, and the integration of disaster mitigation into development planning.

Expected Learning Outcomes:

By completing this course, students are expected to understand the principles of disaster mitigation, assess risks in different contexts, and design effective mitigation strategies that strengthen resilience and sustainability

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Course Title. : **Spatial Planning and Environment**
Course Code : P-CIL-8-207
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course examines the integration of spatial planning and environmental management. It addresses land use planning, zoning, and the role of spatial analysis in balancing development needs with ecological sustainability.

Expected Learning Outcomes:

Students completing this course are expected to develop the ability to apply spatial planning concepts to environmental management, evaluate land use policies, and propose spatial solutions that support sustainable development.

Course Title. : **Environmental System Analysis**
Course Code : P-CIL-8-208
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :

This course introduces systems thinking as applied to environmental science. It emphasizes the interrelationships between environmental components, feedback loops, and the modeling of complex systems to understand environmental processes and policy outcomes

Expected Learning Outcomes:

By the end of this course, students are expected to analyze environmental issues using systems approaches, build conceptual and quantitative models, and apply system analysis to evaluate policy options and management strategies

Course Title. : **Environmental Pollution Control**
Course Code : P-CIL-8-209
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course discusses sources and types of pollution, pollution control technologies, and management strategies for air, water, and soil systems. It also examines environmental standards and regulatory mechanisms

Expected Learning Outcomes:

Students completing this course are expected to identify sources and impacts of pollution, evaluate pollution control methods, and propose integrated strategies to reduce pollution and restore environmental quality.

Course Title. : **Disaster Management Strategy**
Course Code : P-CIL-8-210
Credits : **3.2 ECTS** Type of Courses : Mandatory

Course Description :
This course introduces strategies and frameworks for managing disasters comprehensively. It includes preparedness, response, recovery, and post-disaster reconstruction, with an emphasis on multi-stakeholder collaboration.

Expected Learning Outcomes:

By completing this course, students are expected to understand the phases of disaster management, assess institutional capacities, and formulate strategic plans to enhance disaster preparedness and recovery efforts

Course Title. : **Green Infrastructure Planning**
Course Code : P-CIL-8-211
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course introduces the concepts, principles, and practices of green infrastructure as an approach to sustainable urban and regional development. It emphasizes the integration of natural systems into planning and design, covering topics such as ecological networks, urban green spaces, stormwater management, and climate adaptation strategies. Case studies from different regions illustrate how green infrastructure contributes to ecological resilience, human well-being, and sustainable growth

Expected Learning Outcomes:

By completing this course, students are expected to understand the theoretical foundations and practical applications of green infrastructure, analyze the role of ecological systems in supporting urban resilience, and design planning strategies that integrate environmental, social, and economic benefits through green infrastructure solutions

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Course Title. : **Solid Waste and Hazardous Waste Management**
Course Code : P-CIL-8-212
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course examines the principles, technologies, and policies for managing solid and hazardous wastes in the context of sustainable development. It covers the generation, characterization, collection, transportation, treatment, recycling, and disposal of waste, as well as risk management for hazardous materials. Special emphasis is given to circular economy approaches, waste minimization strategies, and regulatory frameworks governing waste management.

Expected Learning Outcomes:

By completing this course, students are expected to understand the sources and impacts of solid and hazardous waste, evaluate the effectiveness of management systems and treatment technologies, and design integrated strategies for waste minimization, recycling, and safe disposal. They will also be able to critically assess policy and regulatory approaches to ensure environmentally sound and socially responsible waste management practices.

Course Title. : **Disaster Management Cooperation**
Course Code : P-CIL-8-213
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course examines collaborative frameworks, institutional arrangements, and international agreements in disaster management. It emphasizes cross-sectoral coordination, intergovernmental relations, and community-based cooperation in reducing disaster risks and enhancing resilience. Students will be introduced to best practices in cooperative strategies both at the national and international levels.

Expected Learning Outcomes:

By completing this course, students are expected to develop a comprehensive understanding of the importance of cooperation in disaster management, demonstrate the ability to analyze collaborative mechanisms between institutions and stakeholders, and critically assess international and local cooperation models for improving disaster preparedness and response.

Course Title. : **GIS Environment**
Course Code : P-CIL-8-214
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course introduces Geographic Information Systems (GIS) as a tool for environmental analysis and decision-making. It covers spatial data collection, management, visualization, and application of GIS in environmental planning, disaster risk reduction, and natural resource management.

Expected Learning Outcomes:

By the end of the course, students will be able to apply GIS techniques to environmental problems, integrate spatial data into planning processes, and interpret geospatial analyses to support evidence-based environmental decision-making.

Course Title. : **Hydroclimatology**
Course Code : P-CIL-8-215
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores the relationship between hydrology and climatology, focusing on the dynamics of water resources, rainfall patterns, and climate variability. It addresses the impacts of climate change on hydrological cycles and the implications for water resource management and environmental sustainability.

Expected Learning Outcomes:

After completing this course, students are expected to demonstrate an advanced understanding of hydroclimatic processes, critically evaluate the impact of climate variability on water systems, and apply hydroclimatological knowledge in developing strategies for sustainable water resource managemen

Course Title. : **Environmental Anthropology and Communication**
Course Code : P-CIL-8-216
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course integrates perspectives from anthropology and communication studies to understand human-environment interactions. It focuses on cultural values, social behaviors, and communication strategies that influence environmental awareness, adaptation, and sustainability.

Expected Learning Outcomes:

By the end of this course, students will be able to analyze environmental issues from a socio-cultural perspective, assess the role of communication in shaping environmental behavior, and design communication strategies that promote environmental sustainability and community engagement.

Course Title. : **Resilience Development**
Course Code : P-CIL-8-217
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course addresses the concept of resilience in the context of environmental and disaster studies. It emphasizes theoretical frameworks and practical approaches to building resilience at individual, community, and institutional levels against environmental stressors and disasters.

Expected Learning Outcomes:

Students completing this course are expected to understand resilience as a multi-dimensional concept, evaluate strategies for resilience-building in vulnerable systems, and propose integrative solutions that enhance adaptive capacity and long-term sustainability.

Course Title. : **Population, Environment and Natural Resources**
Course Code : P-CIL-8-218
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :

This course analyzes the interconnections between population dynamics, environmental change, and natural resource management. It explores issues such as population growth, urbanization, resource scarcity, and sustainable development strategies.

Expected Learning Outcomes:

Upon completion, students will be able to critically assess the influence of demographic changes on environmental sustainability, evaluate policy options for balancing population growth with resource conservation, and develop integrative approaches for sustainable resource management.

Course Title. : **Energy and Environment Development**
Course Code : P-CIL-8-219
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores the relationship between energy systems and environmental sustainability. Topics include renewable and non-renewable energy resources, energy policy, environmental impacts of energy use, and sustainable energy transitions for development.

Expected Learning Outcomes:

Students will be able to evaluate the environmental consequences of various energy systems, analyze energy policies from a sustainability perspective, and propose innovative strategies to promote sustainable energy development.

Course Title. : **Coastal and Marine Area Management**
Course Code : P-CIL-8-220
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines integrated coastal and marine management, focusing on ecological, social, and economic dimensions. It covers marine biodiversity, coastal zone planning, sustainable fisheries, and climate change impacts on marine ecosystems

Expected Learning Outcomes:

By completing this course, students are expected to understand the principles of integrated coastal zone management, assess environmental pressures on coastal and marine ecosystems, and develop management strategies that balance conservation with sustainable use

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Course Title. : **Transportation and Environment**
Course Code : P-CIL-8-221
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course discusses the interaction between transportation systems and the environment. It covers topics such as air pollution, greenhouse gas emissions, urban mobility, and sustainable transportation planning

Expected Learning Outcomes:

Students will be able to critically evaluate the environmental impacts of transportation systems, design sustainable mobility strategies, and propose solutions to reduce transportation-related environmental degradation.

Course Title. : **Disaster Management Planning**
Course Code : P-CIL-8-222
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course provides an in-depth understanding of planning frameworks and strategies for disaster management. It includes risk assessment, preparedness planning, emergency response, and recovery processes with a focus on resilience.

Expected Learning Outcomes:
Students will be able to develop disaster management plans, conduct risk analyses, and design strategies that enhance community resilience and effective disaster response.

Course Title. : **Eco Efficiency and Sustainable Development**
Course Code : P-CIL-8-223
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course focuses on the principles and practices of eco-efficiency as a pathway to sustainable development. It highlights strategies to minimize resource use and waste while maximizing economic and social benefits.

Expected Learning Outcomes:
Upon completion, students will be able to apply eco-efficiency concepts in environmental management, assess policies and practices that enhance sustainability, and design initiatives that integrate ecological and economic efficiency.

Course Title. : **Decision Making Theory**
Course Code : P-CIL-8-224
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores decision-making frameworks and tools relevant to environmental and resource management. It covers rational, bounded, and participatory decision-making models, including the use of decision-support systems.

Expected Learning Outcomes:
Students are expected to demonstrate an understanding of decision-making theories, apply analytical tools to complex environmental problems, and develop strategies for inclusive and effective environmental decision-making processes.

Course Title. : **Environmental Hazard and Risk Analysis Analisis**
Course Code : P-CIL-8-225
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces methods and frameworks for identifying, assessing, and managing environmental hazards and risks. It covers hazard characterization, exposure pathways, vulnerability assessment, and quantitative risk analysis tools.

Expected Learning Outcomes:
Students will be able to analyze environmental hazards, apply risk assessment methodologies, and design risk management strategies that minimize environmental and public health impacts.

Course Title. : **Clean Water Management**
Course Code : P-CIL-8-226
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course addresses the management of clean water resources, focusing on water supply systems, water quality monitoring, treatment technologies, and sustainable water governance.

Expected Learning Outcomes:
By the end of the course, students are expected to understand clean water management systems, evaluate water quality standards, and design sustainable strategies to ensure safe and equitable access to clean water.

Course Title. : **Waste Management Infrastructure Management**
Course Code : P-CIL-8-227
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course covers the planning, design, and management of infrastructure for waste collection, treatment, recycling, and disposal. It emphasizes integrated systems for solid and hazardous waste management in urban and industrial contexts.

Expected Learning Outcomes:
Students will be able to assess the performance of waste management infrastructure, propose improvements for efficiency and sustainability, and develop integrated approaches to minimize environmental risks.

Course Title. : **Clean Technology**
Course Code : P-CIL-8-228
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores technologies and innovations that reduce environmental impacts while improving resource efficiency. Topics include renewable energy systems, low-emission technologies, sustainable materials, and eco-innovation.

Expected Learning Outcomes:
Students are expected to analyze clean technology applications, evaluate their environmental and economic benefits, and propose strategies for integrating clean technology into industry and society.

Course Title. : **Wastewater Management**
Course Code : P-CIL-8-305
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines the principles and technologies for managing wastewater from domestic, industrial, and agricultural sources. It covers collection systems, treatment processes, water reuse, and regulatory frameworks.

Expected Learning Outcomes:
Students will be able to evaluate wastewater treatment systems, design sustainable wastewater management strategies, and assess their effectiveness in protecting public health and the environment.

Course Title. : **Hospital Waste Management**
Course Code : P-CIL-8-306
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course focuses on the management of biomedical and hospital waste, including handling, treatment, and disposal methods. It highlights regulatory requirements, occupational safety, and environmental protection.

Expected Learning Outcomes:
Students will be able to identify risks associated with hospital waste, evaluate treatment technologies, and design management systems that ensure compliance with health and environmental standards.

Course Title. : **Green Infrastructure Resilience**
Course Code : P-CIL-8-307
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces the concept of resilience in green infrastructure systems. It examines the role of ecological networks, urban green spaces, and ecosystem-based adaptation in addressing environmental change and natural disasters

Expected Learning Outcomes:

Students will understand the resilience framework for green infrastructure, analyze vulnerabilities in urban systems, and design strategies that enhance ecological and community resilience.

Course Title. : **Noise and Vibration Control**
Course Code : P-CIL-8-308
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores the sources, impacts, and control of noise and vibration in environmental and occupational settings. It includes measurement techniques, mitigation strategies, and regulatory standards.

Expected Learning Outcomes:

Students are expected to analyze noise and vibration impacts, apply measurement methods, and design effective mitigation strategies that comply with environmental and public health standards.

Course Title. : **Sanitation and Environmental Health**
Course Code : P-CIL-8-309
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course covers sanitation systems and their linkages to public and environmental health. It discusses sanitation technologies, hygiene practices, and policies to reduce disease transmission and environmental degradation.

Expected Learning Outcomes:

Students will be able to evaluate sanitation systems, assess their health and environmental impacts, and propose strategies for improving sanitation infrastructure and practices.

Course Title. : **Environmental Toxicology and Epidemiology**
Course Code : P-CIL-8-310
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course provides an overview of the effects of environmental pollutants on human health and ecosystems. It integrates toxicology and epidemiological approaches to assess exposure, risks, and disease outcomes.

Expected Learning Outcomes:

Students are expected to analyze the toxicological impacts of environmental contaminants, apply epidemiological methods to assess health risks, and recommend strategies for risk reduction.

Course Title. : **Community Development Planning**
Course Code : P-CIL-8-311
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines participatory planning approaches for sustainable community development. It emphasizes social inclusion, local empowerment, and integration of environmental considerations in community planning

Expected Learning Outcomes:

Students will be able to design participatory planning processes, integrate environmental sustainability into community development, and propose strategies that strengthen community resilience.

Course Title. : **Environmental Mediation and Negotiations**
Course Code : P-CIL-8-312
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces negotiation and mediation techniques for resolving environmental conflicts. It covers stakeholder analysis, communication strategies, and consensus-building in environmental decision-making.

Expected Learning Outcomes:

Students will understand negotiation frameworks, apply mediation techniques, and develop solutions for environmental conflicts that balance ecological, social, and economic interests

Course Title. : **Environmental Psychology**
Course Code : P-CIL-8-313
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores psychological perspectives on human-environment interactions. Topics include environmental perception, behavior change, risk perception, and psychological responses to environmental challenges.

Expected Learning Outcomes:

Students are expected to analyze how psychological factors shape environmental behavior, evaluate interventions to encourage pro-environmental actions, and apply psychological insights to environmental policy and planning.

Course Title. : **Disaster Management**
Course Code : P-CIL-8-314
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course provides a broad overview of disaster management principles, including mitigation, preparedness, response, and recovery. It integrates environmental, social, and institutional perspectives.

Expected Learning Outcomes:

Students will be able to design disaster management strategies, assess community vulnerabilities, and propose integrated approaches to enhance resilience.

Course Title. : **International Standards for Disaster Management**
Course Code : P-CIL-8-315
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines international frameworks and standards for disaster risk management, such as the Sendai Framework, ISO standards, and global humanitarian guidelines.

Expected Learning Outcomes:

Students will understand global disaster management standards, evaluate their application in national and local contexts, and recommend strategies for compliance and improvement.

Course Title. : **Community Based Disaster Risk Reduction**
Course Code : P-CIL-8-316
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course focuses on participatory approaches to disaster risk reduction at the community level. It emphasizes local knowledge, social capital, and community empowerment in reducing disaster risks.

Expected Learning Outcomes:
Students will be able to design community-based disaster risk reduction initiatives, integrate local knowledge into planning, and foster resilience through community engagement.

Course Title. : **Disaster Risk Analysis**
Course Code : P-CIL-8-317
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces methods for assessing disaster risks, including hazard mapping, vulnerability assessment, and risk modeling. It highlights quantitative and qualitative approaches for decision support.

Expected Learning Outcomes:
Students are expected to conduct disaster risk analyses, apply mapping and modeling tools, and develop strategies for risk-informed planning

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Course Title. : **Evacuation Management**
Course Code : P-CIL-8-318
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course covers the planning and implementation of evacuation strategies during disasters. It addresses risk communication, logistics, simulation modeling, and post-evacuation evaluation

Expected Learning Outcomes:
Students will be able to design evacuation plans, manage evacuation processes effectively, and assess the efficiency and safety of evacuation strategies.

Course Title. : **Early Warning System**
Course Code : P-CIL-8-319
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines the design and operation of early warning systems for natural hazards. It includes monitoring, forecasting, communication, and community response.

Expected Learning Outcomes:
Students will understand the components of effective early warning systems, assess technological and social aspects, and design systems that enhance disaster preparedness and response.

Course Title. : **Mass Transfer and Transformation**
Course Code : P-CIL-8-320
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces principles of mass transfer and transformation processes in environmental systems, including air, water, and soil. It focuses on contaminant transport and environmental modeling.

Expected Learning Outcomes:
Students will be able to apply mass transfer concepts to environmental problems, model contaminant behavior, and design interventions for pollution control.

Course Title. : **Regional Planning**
Course Code : P-CIL-8-321
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course explores spatial planning at the regional scale, integrating land use, transportation, environment, and socio-economic development. It emphasizes sustainable and resilient regional strategies.

Expected Learning Outcomes:
Students are expected to analyze regional development challenges, design integrated planning strategies, and propose policies for sustainable regional growth.

Course Title. : **Environmental Chemistry and Biology**
Course Code : P-CIL-8-322
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course provides fundamental knowledge of chemical and biological processes in the environment. Topics include pollutant chemistry, biogeochemical cycles, and microbial ecology.

Expected Learning Outcomes:
Students will understand key chemical and biological interactions in the environment, evaluate pollutant fate and transformation, and apply this knowledge to environmental management

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Course Title. : **Food Security and Environment**
Course Code : P-CIL-8-323
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course examines the relationship between food security and environmental sustainability. It addresses agricultural systems, resource management, and climate change impacts on food production

Expected Learning Outcomes:
Students will be able to analyze environmental dimensions of food security, assess agricultural sustainability, and propose strategies for resilient food systems.

Course Title. : **Disaster Waste Management**
Course Code : P-CIL-8-324
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course focuses on managing waste generated during and after disasters, including debris clearance, hazardous waste handling, and recycling. It emphasizes rapid response and sustainable recovery.

Expected Learning Outcomes:
Students will understand disaster-related waste challenges, evaluate management options, and design strategies for safe and efficient disaster waste management.

Course Title. : **Environmental Diplomacy**
Course Code : P-CIL-8-325
Credits : **3.2 ECTS** Type of Courses : Elective

Course Description :
This course introduces the principles and practices of diplomacy in addressing international environmental issues. It covers multilateral negotiations, treaties, and the role of international organizations.

Expected Learning Outcomes:
Students are expected to understand the dynamics of international environmental diplomacy, evaluate negotiation processes, and develop strategies to advance environmental agreements and cooperation.

Course Title. : **Environmental Planning**
Course Code : CIL1924203
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course provides an overview of environmental planning principles and approaches used to integrate ecological sustainability into spatial and regional development. It emphasizes policy instruments, planning methodologies, and stakeholder engagement in balancing growth with environmental conservation.

Expected Learning Outcomes:

Students are expected to develop the capacity to critically analyze planning issues, interpret regulatory frameworks, and formulate strategies that promote sustainable land use and natural resource management within environmental planning contexts

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Course Title. : **Environmental Diplomacy**
Course Code : CIL1924204
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course focuses on the principles and applications of environmental management in addressing pollution, natural resources, and sustainability challenges. It integrates scientific, technical, and policy perspectives.

Expected Learning Outcomes:

Students are expected to develop the capacity to evaluate environmental management practices, formulate strategies for reducing environmental risks, and implement management systems that promote sustainability.

Course Title. : **Climate Change**
Course Code : CIL1924205
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course examines the scientific basis, impacts, and mitigation strategies of climate change. It covers climate modeling, adaptation, and policy frameworks at local, national, and global levels.

Expected Learning Outcomes:

Students are expected to be able to critically analyze climate change drivers, assess adaptation and mitigation measures, and integrate climate science into environmental policy and planning.

Course Title. : **Pollution Control and Environmental Damage**
Course Code : CIL1924206
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course explores methods and technologies for pollution prevention, control, and remediation. It addresses air, water, and soil pollution as well as the assessment of environmental damage.

Expected Learning Outcomes:

Students are expected to demonstrate the ability to evaluate sources and impacts of pollution, apply techniques for pollution control, and design strategies for environmental restoration and damage mitigation

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Course Title. : **Biodiversity and Ecosystem Dynamics**
Course Code : CIL1924207
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course highlights the importance of biodiversity and the dynamics of ecosystems in sustaining life on Earth. It covers conservation biology, ecosystem services, and the effects of human activities on biodiversity.

Expected Learning Outcomes:

Students are expected to develop the ability to analyze patterns of biodiversity, assess threats to ecosystems, and propose scientifically informed conservation and management strategies.

Course Title. : **New Renewable Energy**
Course Code : CIL1924208
Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :
This course introduces renewable energy sources and technologies, focusing on their role in achieving sustainable energy transitions. It includes solar, wind, bioenergy, and other emerging renewable systems.

Expected Learning Outcomes:

Students are expected to understand the principles of renewable energy, evaluate technological and economic feasibility, and analyze policies that support sustainable energy development.

Course Title. : **Strategy and Policy of Information Technology**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course focuses on the formulation, implementation, and evaluation of information technology (IT) strategies and policies that align with organizational goals and competitive advantage. Students will learn to integrate IT planning into business strategy, manage IT governance, and evaluate the impact of IT investments on organizational performance. Key topics include strategic alignment, enterprise architecture, IT portfolio management, IT governance frameworks (e.g., COBIT), risk management, and regulatory compliance. The course also addresses leadership, ethical considerations, and the role of policies in ensuring responsible and sustainable IT use. Case studies and project-based learning are used to connect theory with real-world practice.

Expected Learning Outcomes:

tudents will be able to formulate IT strategies and policies that align with organizational goals, ensure compliance with regulations, and contribute to sustainable competitiveness.

Course Title. : **Thesis Proposal**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Mandatory

Course Description :

This course guides students in preparing a well-structured and academically sound thesis proposal in the field of Information Systems. It focuses on identifying research problems, conducting literature reviews, formulating research questions/hypotheses, selecting appropriate research methods, and designing research frameworks. Students will align their research topics with organizational needs, current trends, and ethical standards in information systems. The course emphasizes critical thinking, academic writing, proposal defense, and the ability to contribute new knowledge or practical solutions through scientific inquiry

Expected Learning Outcomes:

Students will be able to develop a comprehensive thesis proposal, including research background, problem formulation, objectives, methodology, and expected contributions.

Course Title. : **Thesis Research I**

Course Code : –

Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :

This course represents the initial phase of the thesis research process in the Master of Information Systems program. Students will begin executing their approved thesis proposals by conducting in-depth literature reviews, refining research questions, and finalizing their research methodology. This course emphasizes the development of a clear and feasible research framework, the selection of appropriate data collection and analysis techniques, and the ethical considerations involved in conducting research. Students are guided to produce a comprehensive research outline and demonstrate progress toward the full thesis through regular supervision and structured documentation

Expected Learning Outcomes:

Students will be able to conduct literature review, design research methodology, and collect preliminary data to support thesis development.

Course Title. : **Final Thesis**

Course Code : –

Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :

The Final Thesis course is the culminating academic requirement in the Master of Information Systems program. It involves the completion of an original research project that addresses a significant problem or issue in the field of information systems. The thesis must demonstrate mastery of the subject matter, application of appropriate methodologies, critical thinking, ethical awareness, and contribution to the body of knowledge or practical applications. Students are expected to finalize their research report, meet academic writing standards, and successfully defend their thesis before an academic examination board.

Expected Learning Outcomes:

Students will be able to complete a thesis that demonstrates mastery of information systems concepts, methodologies, and applications, contributing to academic knowledge and/or professional practice.

Course Title. : **Supply Chain Management**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course introduces concepts, strategies, and technologies used in managing supply chains effectively within and across organizations. Students will explore the integration of information systems in procurement, production, inventory, logistics, and distribution. The course emphasizes how digital transformation and data analytics optimize supply chain performance, increase responsiveness, and reduce costs. Topics include supply chain design, coordination, sustainability, and the role of enterprise systems such as ERP in facilitating end-to-end visibility and decision-making

Expected Learning Outcomes:

Students will be able to evaluate supply chain processes, integrate IT solutions into supply chain management, and design green and efficient supply chain strategies

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Course Title. : **Project Management of Information Systems**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course covers principles, methodologies, and best practices in managing information systems projects. It focuses on project planning, scheduling, resource allocation, risk management, quality assurance, and stakeholder communication. Students will learn to apply various project management frameworks and tools, including agile and traditional approaches, to ensure successful project delivery aligned with organizational goals. Ethical considerations and leadership skills in IT project management are also emphasized

Expected Learning Outcomes:

Students will be able to plan, execute, and evaluate IT projects using project management methodologies, ensuring scope, time, cost, and quality objectives are met.

Course Title. : **Service-Based Architecture**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course explores the principles, design, and implementation of service-based architecture (SBA) in information systems. It covers concepts such as Service-Oriented Architecture (SOA), microservices, web services, and API management. Students will learn how to design scalable, modular, and interoperable systems by leveraging services to support business processes and digital transformation. The course also addresses security, governance, and performance issues in service-based systems.

Expected Learning Outcomes:

Students will be able to design and implement service-oriented architecture (SOA) solutions to enhance system interoperability and scalability.

Course Title. : **Governance of Information Systems**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course examines the frameworks, principles, and practices of governance in information systems to ensure alignment between IT and business objectives. It covers topics such as IT governance frameworks (COBIT, ITIL), risk management, compliance, strategic alignment, performance measurement, and accountability. Students will analyze how governance structures support effective decision-making, resource management, and ethical use of technology in organizations

Expected Learning Outcomes:

Students will be able to apply governance frameworks to manage IT resources, align IT with business strategies, and ensure compliance with organizational policies.

Course Title. : **Audit of Information Systems**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course provides an overview of auditing principles and practices applied to information systems. Students will learn how to assess the effectiveness, security, and compliance of IT processes and controls within organizations. Topics include audit planning, risk assessment, control evaluation, IT governance, compliance standards, and reporting. The course also emphasizes ethical considerations and the role of auditors in supporting organizational objectives and regulatory requirements

Expected Learning Outcomes:

Students will be able to conduct audits of information systems, evaluate risks, and provide recommendations to improve IT governance and control.

Course Title. : **Data Mining**

Course Code : -

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course introduces the principles, techniques, and applications of data mining in extracting valuable knowledge from large datasets. Students will learn various data mining methods such as classification, clustering, association rules, and anomaly detection. The course emphasizes the use of data mining tools and software to analyze business data for decision support and strategic planning. Ethical considerations in data usage and privacy will also be addressed

Expected Learning Outcomes:

Students will be able to apply data mining techniques to extract patterns, knowledge, and insights from large datasets for decision-making.

Course Title. : **Cyber Security Governance**

Course Code : –

Credits : **4.8 ECTS** Type of Courses : Elective

Course Description :

This course explores the governance frameworks and practices essential for managing cybersecurity within organizations. It covers topics such as cybersecurity policies, risk management, regulatory compliance, incident response, and security awareness. Students will learn how to align cybersecurity strategies with organizational goals, implement security governance frameworks (e.g., NIST, ISO 27001), and promote a culture of security and ethical responsibility.

Expected Learning Outcomes:

Students will be able to design and evaluate cybersecurity governance frameworks, ensuring data protection, risk management, and organizational resilience against cyber threats.

Course Title. : **Information Systems Research I**
Course Code : CSI1924201
Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :
This course focuses on the early stage of thesis research, including topic selection, literature review, research framework development, and initial data collection.

Expected Learning Outcomes:

Students are able to identify research problems, formulate objectives, conduct literature reviews, and design initial research frameworks supported by preliminary data collection.

Course Title. : **Digital Economy**
Course Code : CSI1924202
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :
This course discusses the role of digital technologies in transforming economic systems, including e-commerce, digital platforms, fintech, and digital business models.

Expected Learning Outcomes:

Students are able to analyze digital business ecosystems, evaluate platform-based models, and understand the economic transformation enabled by technology.

Course Title. : **Big Data Analytics**
Course Code : CSI1924203
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :
This course introduces big data concepts, tools, and frameworks for large-scale data processing and analytics, including Hadoop, Spark, and cloud-based platforms.

Expected Learning Outcomes:

Students are able to manage and process large-scale datasets, apply computational tools, and generate insights to support organizational strategies.

Course Title. : **Artificial Intelligence for Information Systems**
Course Code : CSI1924204
Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :
This course covers the application of AI in information systems, including machine learning, natural language processing, and intelligent decision support systems.

Expected Learning Outcomes:

Students are able to design and implement AI-based solutions for organizational challenges while considering ethical and social implications.

Course Title. : **Supply Chain Management**
Course Code : CSI1924205
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :
This course examines supply chain processes, logistics, and the integration of information systems to optimize supply chain performance.

Expected Learning Outcomes:

Students are able to evaluate supply chain processes, integrate IT-based solutions, and propose sustainable and efficient management strategies

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Course Title. : **Internet of Things (IoT)**
Course Code : CSI1924206
Credits : **6.4 ECTS** Type of Courses : Elective

Course Description :
This course explores IoT concepts, architectures, applications, and their role in smart systems. Topics include IoT devices, communication protocols, and data management.

Expected Learning Outcomes:

Students are able to design IoT-based systems, evaluate their architectures, and address challenges related to security and scalability.

Course Title. : **Information Systems Research III**
Course Code : CSI1924401
Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :
This course focuses on the advanced stage of dissertation research, including deeper analysis, validation, and discussion of findings.

Expected Learning Outcomes:

Students are able to conduct comprehensive research analysis, validate findings, and position their work within academic and professional contexts.

Course Title. : **Research Seminar**
Course Code : CSI1924402
Credits : **9.6 ECTS** Type of Courses : Mandatory

Course Description :
This course provides a platform for students to present their dissertation progress and receive feedback from peers and faculty.

Expected Learning Outcomes:

Students are able to present and communicate research progress effectively, respond to critiques, and integrate feedback to strengthen their dissertation.

Course Title. : **Dissertataion Examination**
Course Code : CSI1924601
Credits : **19.2 ECTS** Type of Courses : Mandatory

Course Description :
This is the final defense of the dissertation before an academic board. Students present, justify, and defend their research results and contributions.

Expected Learning Outcomes:

Students are able to defend their dissertation comprehensively, demonstrating mastery of theories, research methods, and contributions to advancing knowledge in information systems.

UNIVERSITAS DIPONEGORO
The Excellent Research University

DIPONEGORO international office

More Inquiries And Information About Us

Under the Directorate of Reputation, Partnerships, and Global Connectivity (RPGC), the Diponegoro International Office (DIO) supports international students, researchers, and partners at Universitas Diponegoro. Established in 2009, it assists with immigration, academic life, and cultural integration. We oversee Student Mobility, Welfare, Finance, Visas, and worldwide promotions for potential partnerships.

As Undip aims to be a world-class university, we foster global collaborations and support international programs, including double degrees and credit transfers. Ranked 106th in Asia (QS 2026) and among Indonesia's top five universities, UNDIP continues expanding its global presence.

THANK YOU!

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