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| Course | Course Name | Sustainable Development |
| | Course Code | DK184716 |
| | Credit | 3 |
| | Semester | VIII |

Description of Course

The course of sustainable development is an elective course aimed at providing students with skills in sustainable resource management (3 pillars of sustainable development: social, economic and environmental).

Learning Outcomes

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| Knowledge | <ol style="list-style-type: none"> 1.1 Mastering the theoretical concept of urban and regional planning in the aspects of urban studies, regional studies, spatial science, data science & computer application, socio-political, environmental management, built environment design, infrastructure and transportation system, coastal studies, management, economics. 1.2 Mastering the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques. 1.3 Mastering the methods of spatial/aspatial planning in decision-making. |
| Specific Skill | <ol style="list-style-type: none"> 2.1 Able to compile the planning concept and direction of the plan through the study of strategic issues in the context of urban, regional, and coastal planning problems with understanding through observation and utilization of the data of physical/spatial, social, economic and environmental. 2.2 Able to utilize ICT in the management of data to produce information that is easily understood by the public and the decision makers. 2.3 Able to describe the spatial characteristics of urban, regional and coastal area through the linkage analysis of spatial and aspatial aspects |

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| | <p>so that provide the information as the basis for drawing up planning model</p> <p>2.4 Able to compile an alternative spatial model through a qualitative and quantitative approach in the form of scenarios setting the pattern of space and structure of urban, regional, and coastal area as well as propose the appropriate solutions</p> <p>2.5 Able to produce creative, innovative, sustainable, and accommodating public interest plans whose results are reviewed on the rules and theories of planning and communicating them visually, verbally and in writing so that can be accounted for academically.</p> |
| General Skill | <p>3.1 Able to apply logical, critical, systematic, and innovative thinking in the context of development or implementation of science and technology by considering and applying the suitable value of humanities in accordance with their expertise</p> <p>3.2 Able to demonstrate independent, quality and scalable performance</p> <p>3.5 Able to take an appropriate decision in the context of problems solving in the field of their expertise based on the results of the information and data analyze</p> <p>3.7 Able to take responsibility of the working group result and supervision as well as evaluation of the completion of the work assigned to the workers who are under the responsibility</p> <p>3.9 Able to do documenting, storing, securing, and finding back the data to ensure the validity and prevent plagiarism</p> |
| Course Learning Outcomes | |
| Knowledge | <p>1. Mastering the principles and philosophy of planning and being able to articulate in understanding issues of problems in human relationships that form the pillars of</p> |

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| | <p>sustainable development (socially, economically and environmentally)</p> <ol style="list-style-type: none"> Mastering the processes of regional and city planning in the aspects of urban studies that take into consideration sustainable development in space implications Implementing aspects and principles in the understanding of sustainable development and its implications on planning documents (collaborative planning, community-based planning and communicative planning) |
| Specific Skill | <ol style="list-style-type: none"> Able to make measurements on the sustainability of the city Able to collect, process social data, economy and the environment of the city in accordance with the appropriate strategic planning and social conditions and utilize aspects of ICT in its implementation Able to analysis and integrate sustainability analysis in planning documents |
| General Skill | <ol style="list-style-type: none"> Be able to demonstrate independent and accountable performance and measurable groups using case studies in urban sociology |
| Main Subject Learning Outcomes | |
| <ol style="list-style-type: none"> Introduction: principles, goals, definitions and milestones of sustainable development Key issues in sustainable development Measurement of sustainable development of city and region scale Measurement tools and measurement dimensions of sustainable development Sustainable development in terms of natural resources: clean water Sustainable development is reviewed from the aspect of natural resources: food agriculture Sustainable development in terms of the natural resource: carrying capacity Integration of sustainable development in the context of cities, regions and coastal areas | |
| Main Subject | |
| <ol style="list-style-type: none"> History and context in sustainable development How sustainable development affects planning | |

2. Tools and indicators in sustainable development
3. Sustainable development is viewed from the aspect of natural resources
4. The concept and application of sustainable development in the planning document

Prerequisite

Social System

References