Course Title: Ocean Literacy Study

Instructors: Tsuyoshi Sasasaki

Course: Course of Marine Policy and Management

Specialization: Graduate degrees

Credits: 2

Start semester: Spring 2018

Location: Shinagawa Campus

Teaching language: English

Theme & Objectives: The purpose of this lecture is to study how to develop the potential of sustainable utilization of ocean resource through enhancing ocean literacy.

Learning Outcomes:

- Knowledge: This lecture will provide theory of educational practice and how to develop and research marine educational program based on each student’s technical knowledge, and study about concrete practice example at the NPOs, schools, other Universities, and oversea’s Institutes.

- Skills: Instructional skills for Aquatic Marine Environmental Education

Prerequisites: N

Teaching activities and methods: Discussions and lecture

Course Contents:

- 1st Lesson: Definition of Ocean Literacy
- 2: Ocean Literacy in the United States and its background
- 3: development of scientific communication in Japan and ocean literacy
- 4: Ocean Literacy 1 Environment and society
- 5: Ocean Literacy every 2 The sea as an environment
- 6: Ocean Literacy 3 Ocean ecosystems
- 7: Ocean Literacy 4 Ocean resources
- 8: Ocean Literacy 5 Each culinary culture and fishery
- 9: Ocean Literacy 6 The coastal area and our life
- 10: Ocean Education Program Development Theory 1 Necessity of Marine Education Program
- 11: Ocean Education Program Development Theory 2 What is Searching Learning
- 12: Ocean Education Program Development Theory 3 Constructivism Learning Theory
- 13: Ocean Educational program development theory 4 Question strategy
- 14: Ocean Education Program Development Theory 5 To promote social consensus formation
- 15: Future prospect of ocean literacy

Recommended or Required self study: Theory and Practice of Aquatic Marine Environmental Education

Workload Calculation

<table>
<thead>
<tr>
<th>Activities</th>
<th>Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching hours in class</td>
<td>30</td>
</tr>
<tr>
<td>Contact hours(Laboratory time)</td>
<td>Wed. Lunch time</td>
</tr>
<tr>
<td>Preparation hours for presentation</td>
<td>30</td>
</tr>
<tr>
<td>Preparation hours for examination</td>
<td>10</td>
</tr>
<tr>
<td>Preparation hours before classes</td>
<td>10</td>
</tr>
<tr>
<td>Supervised Study</td>
<td>10</td>
</tr>
<tr>
<td>(Meeting with supervisor)</td>
<td>0</td>
</tr>
<tr>
<td>Participation in related seminars</td>
<td>0</td>
</tr>
<tr>
<td>Other laboratory Activities</td>
<td>0</td>
</tr>
<tr>
<td>Total Work Load</td>
<td>90</td>
</tr>
</tbody>
</table>

Evaluation Criteria: attendance 2/3. active participation in class

Assessment and Examinations: Assessment and Examinations will be measured using Aquatic Marine Environmental Education Theory