

Mechatronics for KOSEN Engineers 1

Basic Course Information			
Course Number	01005146	Subject Category	Elective: M1
Class Format	Seminar	Credit Type and Number of Credits	1
Department	Mechatronics	Student Category	No designation
Period of Study	Semester 1	Classes per Week	1
Required Materials			
Instructor	H. Kikujawa, H. Kobayashi, S. Takeshita, T. Yoshino, M. Watanabe		

Course Objective
 This program is provided for cultivating and expanding the student's international sense as a KOSEN graduate's engineer with a global perspective. In this class, Japanese teachers provide to review their specialized classes or introducing their research fields in the Japanese language. In addition, through the online exchange activities with Japanese KOSEN students, the students will promote an understanding of Japanese culture and encourage of their future plans as KOSEN graduates.

Evaluation(Rubric)	Ideal Level of Achievement (Very Good)	Standard Level of achievement (Good)	Unacceptable Level of Achievement (Fair)
Understanding of different cultures and improve practical communication skills in Japanese	Being able to explain cultural differences in detail and express their own opinion in fluent Japanese.	Being able to explain cultural differences and can communicate with Japanese students.	Cannot be able to explain cultural differences and cannot communicate with Japanese students.
Understanding the importance of creativity to make a new value by fusing the knowledge from various fields	Being able to explain the importance of creativity to make a new value by fusing the knowledge from various fields by providing specific examples.	Being able to explain the importance of creativity to make a new value by fusing the knowledge from various fields.	Cannot be able to explain the importance of creativity to make a new value by fusing the knowledge from various fields.
Understanding the importance of the attitude to act with awareness of social roles and responsibility to make a better society.	Being able to explain the importance of the attitude to act with awareness of social roles and responsibility to make a better society by providing specific examples.	Being able to explain the importance of the attitude to act with awareness of social roles and responsibility to make a better society.	Cannot be able to explain the importance of the attitude to act with awareness of social roles and responsibility to make a better society.

Relationship with Learning Outcomes

G18 Global awareness and communication ability with languages, English, Japanese, and Thai in order to cooperate with others.

G14 Creativity to make a new value by fusing the knowledge from various fields.

G15 As an engineer, attitude to act with awareness of social roles and responsibility to make a better society.

Teaching Method

Outline: This subject is an omnibus-style class that reviews specialized topics or

Class Format: lecture, seminar activities

Please Note: This course is only available once throughout all the grades of KOSEN-WMITL.

Course Plan

Semester 1	Contents and Method of Course	Goals	Related MCC
1st week	Introduction of this subject	Understanding the object of the subject	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-F 6-14 GF-F 6-15 GF-F 6-16
2nd week	Review lecture of specialized topics of Japanese teacher A	Understanding of the specialized subject topics in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
3rd week	Introduction to the research fields of Japanese teacher A	Expand the understanding of interdisciplinary knowledge and its applications	GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
4th week	Online international exchange activities with Japanese KOSEN A	Deepen understanding of different cultures and improve practical communication skills in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
5th week	Review lecture of specialized topics of Japanese teacher B	Understanding of the specialized subject topics in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
6th week	Introduction to the research fields of Japanese teacher B	Expand the understanding of interdisciplinary knowledge and its applications	GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
7th week	Online international exchange activities with Japanese KOSEN B	Deepen understanding of different cultures and improve practical communication skills in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
8th week	No class (Midterm examination week)		
9th week	Review lecture of specialized topics of Japanese teacher C	Understanding of the specialized subject topics in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
10th week	Introduction to the research fields of Japanese teacher C	Expand the understanding of interdisciplinary knowledge and its applications	GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
11th week	Online international exchange activities with Japanese KOSEN C	Deepen understanding of different cultures and improve practical communication skills in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
12th week	Review lecture of specialized topics of Japanese teacher D	Understanding of the specialized subject topics in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
13th week	Introduction to the research fields of Japanese teacher D	Expand the understanding of interdisciplinary knowledge and its applications	GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
14th week	Online international exchange activities with Japanese KOSEN D	Deepen understanding of different cultures and improve practical communication skills in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
15th week	Review lecture of specialized topics of Japanese teacher E	Understanding of the specialized subject topics in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
16th week	Introduction to the research fields of Japanese teacher E	Expand the understanding of interdisciplinary knowledge and its applications	GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
17th week	Online international exchange activities with Japanese KOSEN E	Deepen understanding of different cultures and improve practical communication skills in Japanese	GF-F 6-14 GF-F 6-15 GF-F 6-16 GF-H 6-26 GF-H 6-28 GF-H 6-29 GF-H 6-30 GF-H 6-31 GF-A 1-1 GF-A 1-2 GF-A 1-3 GF-A 1-4 GF-A 1-5 GF-A 1-6
18th week	Report	Summarizing this subject and foster an understanding of the international perspective	
19th week	No class (Final examination week)		
20th week	wrap-up	Cultivating and expanding the student's international sense as a KOSEN graduate's engineer	

Do not

	Examination	Quiz	Midterm Examinations	Report	Portfolio	Other
Design Ability	0	0	0	0	0	0
Technical Ability	0	0	0	0	0	0
Interdisciplinary Ability	0	0	0	0	0	0