

Course Information			
Year	2021	School	School of Creative Science and Engineering
Course Title	Structural Mechanics IPSE Course		
Instructor	SATO, Yasuhiko/TANAKA, Sachito		
Term/Day/Period	spring quarter 01:Wed.5/02:Fr.5		
Category	Compulsory Subjects	Eligible Year	1st year and above
Classroom	01:54-304/02:54-304	Campus	Nishi-Waseda (Former: Okubo)
Course Key	27GD031005	Course Class Code	01
Main Language	English		
Class Modality Categories	Hybrid (In-person/Online)		
Course Code	CSTX26ZL		
First Academic disciplines	Civil Engineering		
Second Academic disciplines	Civil Engineering		
Third Academic disciplines	Structural Engineering/Earthquake Engineering/Maintenance Management Engineering		
Level	Intermediate, developmental and applicative	Types of lesson	Lecture
			Credits 2

Syllabus Information		Latest Update : 2021/02/21 00:17:03				
Subtitle	Lecture on fundamentals of structural mechanics.					
Course Outline	Studying calculation of cross-sectional properties, reaction, section forces and stresses of beam and truss structures.					
Objectives	Understanding on fundamentals of structural mechanics. Calculation of cross-sectional properties, reaction, section forces and stresses of beam and truss structures.					
Course Schedule	1: April 7 by Y. SATO Orientation Force, moment and reaction (1) 2: April 9 by Y. SATO Force, moment and reaction (2) 3: April 14 by Y. SATO Cross-sectional properties (1) 4: April 16 by Y. SATO Cross-sectional properties (2) 5: April 21 by Y. SATO Axial force in members of truss (1) 6: April 23 by Y. SATO Axial force in members of truss (2) 7: April 28 by Y. SATO Confirmation of understanding (1) 8: April 30 by S. TANAKA Bending moment and shear force of beams (1) 9: May 7 by S. TANAKA Bending moment and shear force of beams (2) 10: May 12 by S. TANAKA Influence line of beams (1) 11: May 14 by S. TANAKA Influence line of beams (2) 12: May 19 by S. TANAKA Influence line of trusses (1) 13: May 21 by S. TANAKA Influence line of trusses (2) 14: May 26 by S. TANAKA Stresses in linear member 15: May 28 by S. TANAKA Confirmation of understanding (2)					
Evaluation	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Rate</td> <td>Evaluation Criteria</td> </tr> <tr> <td>Exam: 100%</td> <td>Confirmation of understanding (1) & (2)</td> </tr> </table>	Rate	Evaluation Criteria	Exam: 100%	Confirmation of understanding (1) & (2)	
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Exam: 100%	Confirmation of understanding (1) & (2)					
Note / URL	Both online and offline lectures are planned. The detail plan will be announced at 1st class.					