

登録コード	TSX15500	開講年度	2026				
授業科目	建築構造設計学					担当教員	遠藤 洋平
英文授業名	Lecture on structural design 1					副担当	
単位数	2	講義期間	後期	曜日・時限	木曜・4時限	対象学生	
講義室	工C3-102教室		授業形態	講義	備考		
信大コンピテンシー	該当						
(1)授業の達成目標	【授業で得られる「学位授与の方針」要素】				【授業の達成目標】		
	2 4 TSカリ, 2 3 TSカリ						
	【研究科共通】さまざまな課題に対処できる高い情報収集・分析能力とグローバルな情報発信能力				To learn to communicate one's own ideas in the second/third language		
	2 6 TSカリ, 2 5 TSカリ, 2 4 TSカリ, 2 3 TSカリ						
	【専攻】工学分野の研究者・技術者として科学・技術を発展させるための幅広い見識と健全な倫理観				To have appropriate ethical judgements as an engineer		
	【専攻】さまざまな課題に対処できる高い情報収集・分析能力とグローバルな情報発信能力				To learn to communicate one's own ideas in the second/third language		
	【専攻】専門知識に基づいて自らの思考や妥当性を論理的に説明できる批判的思考力				To achieve critical ways of thinking based on scientific knowledge		
(2)授業の概要	The class is composed of a lecture and exercise. In the first part of the class, the students are given a lecture. In the second part, the students will carry out an exercise on the basis of the lecture.						
(3)授業計画	1. History of buidling constructions I 2. History of buidling constructions II 3. History of structural analysis techniques 4. Finite element method (FEM) I 5. Finite element method (FEM) II 6. Classical approaches 7. Recent examples of consertion pratices 8-15. Excercise						
(4)成績評価の方法	The maximum score is 100. It is composed of the in-class presentation (50) and end-term report (50).						
(5)成績評価の基準	The grade is given as follows: 90(S), 80(A), 70(B), 60(C). The minimum score is equal to 60 to pass the lecture.						
(6)事前事後学習の内容	Lecture notes are uploaded prior to the class. Students are strongly suggested to read them before the class.						
(7)履修上の注意	The students are obliged to have fair knowledge of structural mechanics and structural materials. The class is given in Japanese. Nonetheless, all the lecture notes are presented in English. Students are strongly encouraged to attend the class with a dictionary (electronic one will be even better). The lecture notes will be uploaded in advance at the website of eALPS (https://tool-cloud.ealps.shinshu-u.ac.jp/eALPS-Portal/?1). Students are encouraged to read it through before the class.						
(8)質問,相談への対応	Students should send an email in advance for the appointment. The address is found in the website of SOAR (http://soar-rd.shinshu-u.ac.jp/profile/en.gNkFbUkh.html). Any sort of questions and consult are welcome.						
(9)その他	Not specified						
【教科書】	Not specified						
【参考書】	Not specified						