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| 登録コード            | T5015300                                                                                                                                                                                                                                                                                                                                                                                                                                       | 開講年度 | 2026 |       |                                                          |       |  |
| 授業科目             | 鋼構造(16T以降)                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |       | 担当教員                                                     | 遠藤 洋平 |  |
| 英文授業名            | Steel Structures                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |       | 副担当                                                      |       |  |
| 単位数              | 2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 講義期間 | 後期   | 曜日・時限 | 月曜・3時限                                                   | 対象学生  |  |
| 講義室              |                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 授業形態 | 講義    | 遠隔授業科目                                                   | 該当 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 5Tカリ, 2 3Tカリ                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |       |                                                          |       |  |
|                  | 【22T～】 共通教育による幅広い教養と, 工学の専門分野における基礎学力が身についている。                                                                                                                                                                                                                                                                                                                                                                                                 |      |      | ⇔     | To understand the fundamentals of structural engineering |       |  |
| (2)授業で学べる「テーマ」   | 防災減災                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |       |                                                          |       |  |
| (3)全学横断特別教育プログラム |                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |       |                                                          |       |  |
| (4)授業の概要         | The lecture deals with basics of steel structures. Particular attention is paid to mechanical properties of steel and mechanism of plastic hinge formations. It is added that the lecture includes a visit to a steel manufacturer. This visit agrees with the concept of ACTIVE LEARNING.                                                                                                                                                     |      |      |       |                                                          |       |  |
| (5)授業計画          | 1-3. mechanical properties of steel I<br>4-5. visit to a steel manufacturer<br>6-7. buckling of a steel column<br>8-10. steel joints<br>11-14. Seismic design of steel structures<br>15. summary and review of the lectures                                                                                                                                                                                                                    |      |      |       |                                                          |       |  |
| (6)成績評価の方法       | Students are evaluated by the score of the final exam of the exercise as well as class attendance.                                                                                                                                                                                                                                                                                                                                             |      |      |       |                                                          |       |  |
| (7)成績評価の基準       | Attendance/ Assignments: This is an online course. Each lecture comes with an assignment. By submitting it, the attendance is confirmed.<br><br>Mid-term/end-term exam: The maximum score is 100.<br><br>The sum of the three items is normalised to the maximum score equal to 100. The normalised score must be larger than 60 to pass the course.                                                                                           |      |      |       |                                                          |       |  |
| (8)事前事後学習の内容     | Before the class: The lecture notes will be uploaded in advance at the website of eALPS ( <a href="https://tool-cloud.ealps.shinshu-u.ac.jp/eALPS-Portal/?1">https://tool-cloud.ealps.shinshu-u.ac.jp/eALPS-Portal/?1</a> ). Students are encouraged to read it through before the class.<br><br>After the class: The list of English keywords of today's class is provided at the class. Students are suggested to review it after the class. |      |      |       |                                                          |       |  |
| (9)履修上の注意        | 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).                                                                                                                                                                                                                                      |      |      |       |                                                          |       |  |
| (10)質問,相談への対応    | Students are supposed to send an email in advance for the appointment. The address is found in the website of SOAR ( <a href="http://soar-rd.shinshu-u.ac.jp/profile/en.gNkFbUkh.html">http://soar-rd.shinshu-u.ac.jp/profile/en.gNkFbUkh.html</a> ). Any sort of questions and consult are welcome.                                                                                                                                           |      |      |       |                                                          |       |  |
| (11)その他          | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |       |                                                          |       |  |
| 【教科書】            | 嶋津孝之 編集、鋼構造(第3版) 森北出版株式会社 3520JPY                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |       |                                                          |       |  |
| 【参考書】            | Not specified                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |       |                                                          |       |  |