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<th>Title</th>
<th>Heat Transfer</th>
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<td>2</td>
<td>Lecturer, Units</td>
<td>Koji Miyazaki</td>
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### Purpose
In this class, we intend to teach an introductory heat transfer such as heat conduction, convective heat transfer, and radiative heat transfer. Moreover, we teach a few simple numerical methods for heat transfer problems to understand the heat transfer.

### Lecture schedule
1. Modes of heat transfer
2. Heat conduction
3. Heat conduction (Numerical Analysis)
4. Convective heat transfer
5. Convective heat transfer (Numerical Analysis)
6. Turbulent convective heat transfer
7. Natural convective heat transfer
8. Condensation heat transfer
9. Boiling heat transfer
10. Radiative heat transfer
11. Applications (Heat pipes, Heat exchangers, Thermoelectric)

### Evaluation
Students will be evaluated by attendance reports, results of class assignments, and the results of a final assignment.

### Note
The students must have studied basic physics and computer programming for engineering.

### Textbook Reference