<table>
<tr><td>Course No.</td><td>M2794.012900</td><td>Lecture No.</td><td>001</td><td>Course Title (Subtitle)</td><td colspan="2">Principles of Combustion Engineering</td><td>Credit</td><td>3</td></tr>
<tr><td rowspan="3">Representative Instructor</td><td>Name</td><td colspan="3">Do, Hyungrok (post :)</td><td>Homepage</td><td colspan="3"></td></tr>
<tr><td>E-mail</td><td colspan="3">hyungrok@snu.ac.kr</td><td>Phone No.</td><td colspan="3">02-880-1597</td></tr>
<tr><td colspan="8">Interview Time/Place : Appointment via Email</td></tr>
<tr><td>Prerequisite Course</td><td colspan="8">None</td></tr>
<tr><td>* 1.Purpose of Course</td><td colspan="8">The primary goal of this course is to provide students with a fundamental understanding of thermodynamics, reaction kinetics and transport theorem associated with the combustion phenomenon that is a self-sustainable process converting chemical energy into thermal energy. In addition, recent studies on turbulent combustion phenomena requiring advanced diagnostics tools and broad backgrounds in turbulence and compressible fluid dynamics will be introduced and some selected cases will be intensively discussed.</td></tr>
<tr><td>* 2.Materials and Reference</td><td colspan="8">• An Introduction to Combustion: Concepts and Applications by Stephen Turns, McGraw-Hill.
• Principles of Combustion by Kenneth K. Kuo, Wiley-Interscience.</td></tr>
<tr><td rowspan="3">* 3.Evaluation Method</td><td>Attendance</td><td>Task</td><td>Medium</td><td>Final</td><td>Random Evaluation</td><td>Attitude</td><td>Other</td><td>Total</td></tr>
<tr><td>5%</td><td>15%</td><td>25%</td><td>45%</td><td>0</td><td>10%</td><td>0</td><td>100%</td></tr>
<tr><td colspan="8">Attendance Policy : Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)
Remark of Others :</td></tr>
<tr><td>* 4.Lecture Plan</td><td colspan="8">Week 1-2: Thermochemistry
Week 3: Combustion Waves
Week 4-5: Chemical Kinetics
Week 6: Mass and Energy Transport
Week 7-8: Species, Energy Conservation
Week 9-10: Premixed Laminar Flame
Week 11-12: Turbulent Combustion Basic
Week 13-14: Combustion Applications
Week 15: Propulsion Basic</td></tr>
<tr><td>5.References to Course Registration</td><td colspan="8"></td></tr>
<tr><td rowspan="3">6. Support Services for Students with Disabilities

※ You can modify these default contents.</td><td>For Lectures</td><td colspan="7">○ Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers
○ Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants
○ Hearing Impairment: Allow note takers and translators, Allow lecture recording
○ Health Impairment: Excuse absence due to health problems, Allow note takers
○ Learning Disability: Allow note takers
○ Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors</td></tr>
<tr><td>For Assignments & Evaluations</td><td colspan="7">○ Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room
○ Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations</td></tr>
<tr><td>Others</td><td colspan="7">Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor *** (02-880-****) or Support Center for Students with Disabilities (02-880-8787).</td></tr>
</table>

◇ fields with * : required fields

◇ If you don't release the syllabus, you may have some disadvantages.