| Course : M2794.008500 Cryogenic Engineering | | | | | | | |
|--|--|--|---|---|---|--|---|
| Credits | Department | | | Re | | uctor | F |
| 3 | Mechanical Engineering Maior | | Pos | Position Professor | | Name Kim. Min Soo | |
| | Attachment(Korean) | | | Attachment(English) | | | |
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| Prerequisite Course | After the close, at lecture room | | | | | | |
| Consult Lime | Alter the class, at lecture room | | | | | | |
| 1. Goals | This course will examine the basic theories and applications of cryogenic systems. We will have an overview of cryogenic system design and analysis techniques based on our general understanding of the fundamental principles of thermodynamics, fluid mechanics and heat transfer. Topics that will be covered are as follows; the components of cryogenic systems and their performance, the diverse examples of cryogenic systems, several cryogenic refrigeration systems, liquefaction systems, storage/tranfer systems, etc. | | | | | | |
| 2. Texts and References | | | ſ | | | I | |
| 3. Evaluation | Attendance(%) | Task(%) Medium(%) | Final(%) | Random Evaluation(%) | Attitude(%) | Others(%) | Total(%) |
| | 0% | 10% 40% | 40% | 0% | 0% | 10% | 100% |
| | 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.) | | | | | | |
| 4. Lecture Plan | Low temperature material properties [2 Week] Production of low temperatures [3 Week] Gas-liquefaction systems [4 Week] Components of liquefaction systems [5 Week] Properties of Mixtures [6 Week] Properties of Mixtures [7 Week] Mid-term examination [8 Week] Cryogenic refrigeration systems (Ideal system, Joule-Thomson system) [9 Week] Cryogenic refrigeration systems (Stirling, VM, GM system) [10 Week] Measurement systems for low T [11 Week] Measurement systems for low T [12 Week] Vacuum technology [13 Week] Vacuum technology [13 Week] Presentation of term projects [14 Week] Presentation of term projects [15 Week] Presentation of term projects [15 Week] | | | | | | |
| 5. Guideline for Students | | | | | | | |
| | 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 | | | | | | |
| 6. Support Services for Students with Disabilities | Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, For Assignments 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 | | | | | | |
| | Others | Students who take this course can individual characteristics and need any questions concerning support Center for Students with Disabilitie | get appropriate level of s through consultation service for students with s (02-880-8787). | of support service inc with professors and th disabilities you ca | luding the support the Support Center n contact Professor | listed above depend r for Students with D ^r Kim, Min Soo(02-8 | ding on the students' Disabilities. If you have 80-8362) or Support |