Certificate of Engineering Concentration
Regulations and Application Form

Eligibility

Students who successfully completed one of the engineering concentrations, i.e. Systems Engineering, Human Factors Engineering, and Data Science.

Application Period

Applications are accepted within the first eight weeks of each semester, starting from the first day of classes. The review will be conducted by the committee before the end of the semester. Each semester, applications will be reviewed only once.

Regulations

To be eligible for the certificate, the applicant must meet the following requirements:

1) **Systems Engineering**

1. Completion of at least four courses in the areas of Production Management and Operations Research.
2. Fulfillment of the following two conditions:

I. Successful completion of the course "Production Management System".

II. Successful completion of at least one of the following four courses:

- Linear Programming
- Applied Probability Models
- Mathematical Programming
- Stochastic Processes

2) **Human Factor Engineering**

1. Completion of at least three courses in the area of Human Factors Engineering.
2. Successful completion of at least one of the two courses

- Psychological Foundations in Human Factors Engineering
- Physiological Foundations in Human Factors

3) **Data Science**

1. Completion of at least four courses in the area of Information Technology,
2. Successful completion of at least one of the three courses

- Data Science
- Data Mining Applications
- Big Data Analytics and Applications

Course Information

For the list of courses in each concentration, please refer to the following link:
https://www.im.ntust.edu.tw/var/file/14/1014/img/210381829.pdf

Application Form

Please submit the completed application form together with official transcripts to the DIM office

Name of Applicant	**Student ID Number**
Email address	**Cell phone number**

Systems Engineering [4 courses]		**Human Factor Engineering [3 courses]**		**Data Science [4 courses]**	
□ **IM5101** Linear Programming □ **IM6101** Mathematical Programming □ **IM7103** Applied Probability Models □ **IM7102** Stochastic Processes	**One out of four**	□ **IM7301** Psychological Foundations in Human Factor Engineering □ **IM7303** Physiological Foundations in Human Factor Engineering	**One out of two**	☐ **IM5213** Data Science □ **IM5803** Data Mining Applications □ **IM5211** Big Data Analytics and Applications	**One out of three**
□ **IM 6307** Production Management System (obligatory)					
Result	☐ **Passed** ☐ **Failed because : […]**				

Signature Committee Chair: _____

Signature Department Chair: _____