

TUAT AIMS Programme 2018/19 (Faculty of Engineering)

Common Courses (September)		Credits
C1	Hightech Japan (Study Tour)	1
C2	Engineering for a Sustainable World (Virtual Manufacturing)	2
C3	Overview of Regional Sustainability Science	1
C4	Tourism and Geography in Japan	2

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→ 茨城大学提供／開講未定
→ 首都大学東京提供／開講未定

Specialised Courses (October to December)

Department of Chemical Engineering		Credits
K1	Separation Process	3
K2	Environmental Engineering and Microbiology	3
K3	Chemical Reaction Engineering	3
K4	Chemical Engineering Laboratory	1
K5	Physical Chemistry	3
K6	Optimisation in Chemical Processes	3
新規	Process Safety & Health Management	3
K7	Research Internship	2~3

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Department of Mechanical Systems Engineering		Credits
M1	Control Engineering	3
M2	Mechanics of Machines and Vibration	3
M3	Mechanical Component Design	3
M4	Numerical Methods	3
M5	Mechanical Systems Engineering Laboratory II	1
M6	Advances in Mechanical Systems Engineering	1
M7	Fluid and Thermal Engineering	3
M8	Research Internship	2~3

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Department of Applied Physics		Credits
P1	Physics of Material	3
P2	Quantum Mechanics	3
P3	Statistical Thermodynamics	3
P4	Applied Physics Laboratory	2
P5	Control System	3
P6	Research Internship	2~3

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Department of Electrical and Electronic Engineering		Credits
E1	Control System	3
E2	Microprocessor and Microcontroller	3
E3	Numerical Methods	3
E4	Electronic Circuit and Power Electronics	3
E5	Electronic Engineering Laboratory	2
E6	Communication Electronics	3
E7	Research Internship	2~3

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Department of Computer and Information Science		Credits
S1	Usability Engineering	3
S2	Parallel Processing & Computer Network	3
S3	Database	3
S4	Mathematics for Data Mining & Security	3
S5	Artificial Intelligence	3
新規	Pattern Recognition & Machine Learning	3
S6	Research Internship	2~3

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Department of Biotechnology & Life Science		Credits
L1	Research Internship	2~3

Department of Applied Chemistry		Credits
F1	Research Internship	2~3

Department of Organic & Polymer Materials Chemistry		Credits
G1	Research Internship	2~3

General Courses		Credits
A1	Research and Academic Writing Skills in Engineering	3
A2	Engineering Industrial Training (only available for students staying until the end of January)	1~3

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