

Dept. in which offered (*1)	Subject Subject labeled by ● will be provided in English Subject labeled by ■ will be provided in Japanese/English	Semester, IMAC-U (Japanese)	Hrs. In total	Credits	Registration restrictions apply	Subject Type (*2)	Course										Registration (For courses at left) ☆: Required ⊕: Recommended for course(*3) ○: Elective Blank: Auditable Subject
							Mechanical Systems	Finemechanics	Robotics	Aerospace Engineering	Quantum Science and Energy Engineering	Environment and Energy Engineering	Mechanical / Biomedical Engineering	International Mechanical and Aerospace Engineering Course			
M	Heat Transfer	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Heat and Mass Transfer		5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Transform Phenomena		7(5)	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Theory of Elasticity	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Manufacturing Engineering and Technology I	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Manufacturing Engineering and Technology II	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Electrical and Electronic Circuit I	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Electrical and Electronic Circuit II	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Laboratory Experiment I	■	5	30	1		Common	☆	☆	☆	☆	☆	☆	☆	☆	☆	
M	Seminar II	■	5	30	1		Common	☆	☆	☆	☆	☆	☆	☆	☆	☆	
M	Production Process Practice	■	5	30	1		Common	☆	☆	☆	☆	○	○	☆	☆	☆	
M	Computer Seminar II	●	5	30	1	○	Common	○	○	○	○	○	○	○	○	○	
M	Fundamentals of Information Science I	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Fundamentals of Information Science II	●	5	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Space Engineering	●	5	30	2	○	Course Elective	○	○	○	⊕	○	○	○	○	○	
M	Biomechanical Engineering	●	5	30	2	○	Course Elective	○	○	○	○	○	○	⊕	○	○	
M	Introduction to Aerospace Engineering	●	5	30	2	○	Course Elective	○	○	○	⊕	○	○	○	○	○	
M	Introduction to Quantum Science and Energy Systems		5	30	2	○	Course Elective					☆				☆	(Supplemental 3)
M	Introduction to Energy and Environmental Technology		5	30	2	○	Course Elective						☆			☆	(Supplemental 3)
M	Multidisciplinary Internship (Supplemental 4)		5		1												
M	Physical Chemistry of Interface		8(6)	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Environmental Biology		6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Computational Fluid Dynamics	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Compressible Fluid Dynamics	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Computational Mechanics	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Strength and Fracture Materials	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Machine Design I	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Machine Design II	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Robotics I	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Robotics II	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Measurement and Instrumentation I	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Measurement and Instrumentation II	●	6	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Laboratory Experiment II	■	6	30	1		Common	☆	☆	☆	☆	☆	☆	☆	☆	☆	
M	Design and Drawing II	■	6	30	1		Common	☆	☆	☆	☆	○	○	☆	☆	☆	
M	Aircraft Design	●	6	30	2	○	Course Elective	○	○	○	⊕		○	○	○	○	
M	Nuclear Energy Physics		6	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	

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		Hrs. In total	Credits			Mechanical Systems	Finemechanics	Robotics	Aerospace Engineering	Quantum Science and Energy Engineering	Environment and Energy Engineering	Mechanical / Biomedical Engineering	International Mechanical and Aerospace Engineering Course			
M	Global Energy Policy	6	30	1	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Radiochemistry	6	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Neutron Transport I	6	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Geomechanics	6	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Energy Conversion System Engineering*	7	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Tribology*	7	30	2	○	Basic II	○	○	○	○	○	○	○	○	○	
M	Geoenvironmental Chemistry	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
En	Introduction to Electronic Engineering	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
En	Introduction to Materials Science	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
En	Introduction to Environmental Engineering	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
En	Introduction to Intellectual Property Right	7	15	1	○	Common	○	○	○	○	○	○	○	○	○	
En	Introduction to Biomedical Engineering	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
En	Engineering Ethics	7	15	1	○	Common	○	○	○	○	○	○	○	○	○	
En	English Communications in Technology II	7	30	2	○	Common	○	○	○	○	○	○	○	○	○	
M	Surface Science and Engineering	7	30	2	○	Course Elective	○	○	⊕	○	○	○	○	○	○	
M	Combustion Engineering	7	30	2	○	Course Elective	○	○	○	⊕	○	○	○	○	○	
M	Neutron Transport II	7	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Nuclear Reactor Safety and Design	7	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Radiation Protection and Safety Engineering	7	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Fuels and Materials of Nuclear Energy Systems	7	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Reservoir Engineering	7	30	2	○	Course Elective	○	○	○	○	○	⊕	○	○	○	
M	Material Science for Energy	7	30	2	○	Course Elective	○	○	○	○	○	⊕	○	○	○	
M	Energy and Resources	7	30	2	○	Course Elective	○	○	○	○	○	⊕	○	○	○	
M	Nuclear Chemical & Environment Engineering	8	30	2	○	Course Elective	○	○	○	○	⊕	○	○	○	○	
M	Plant Visit (Supplemental 1)					Common	☆	☆	☆	☆	○	○	☆	○	○	
M	Industrial Practice					Common					○	○			○	
M	Special Seminar and Practice					Common	○	○	○	○	○	○	○	○	○	
M	Special Lectures I (Supplemental 2)					Common	○	○	○	○	○	○	○	○	○	
M	Special Lectures II					Common	○	○	○	○	○	○	○	○	○	
En	English in Technology I		30	1		Common	○	○	○	○	○	○	○	○	○	
En	Overseas Study I ~ IV					Common										
En	Institute of Engineering Education Special Lectures					Common	○	○	○	○	○	○	○	○	○	
M	Graduation Thesis	6				Common	☆	☆	☆	☆	☆	☆	☆	☆	☆	
		7														
		8														
		9														

[Elective ⑥ and Required]

*"Tribology" and "Energy Conversion System Engineering" will not be offered in FY 2018. It will be offered in the 7th starting from FY2019.