

## 2024 Timetables

### < Doctoral Program PED Program >

### Mechanical Engineering, Materials Science, and Ocean Engineering

#### Studio courses

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
(S) QA15101	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15104	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				
(S) QA15201	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15204	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				

#### Related Lecture courses that make up the module

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QA10021	Advanced Ultra High-speed Machining	SHINOZUKA JUN						No class in even year
QA10034	Advanced Lectures on Fracture Mechanics	AKINIWA YOSHIKI	Fall	Thu.	4			
QA10081	Advanced Lectures on Elastoplasticity Theory	OZAKI SHINGO						No class in even year
QA10101	Non-linear Structural Simulation	YU QIANG						No class in even year
QA10161	Optical Microfabrication Engineering	MARUO SHOJI						No class in even year
QA10204	Advanced Thin Film Fabrication	HIROKI OTA	Fall	Wed.	2			
QA10254	Micro and nanofabrication	INOUE FUMIHIRO	Fall	Thu.	2			
(S) QA19811	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	Intensive course				
(F) QA19814	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	Intensive course				

#### Studio courses

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
(S) QA15101	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15104	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				
(S) QA15201	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15204	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				

#### Related Lecture courses that make up the module

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QA10041	Advanced Turbo Machinery	MATSUI JUN						No class in even year
QA10074	Space Propulsion Engineering, Advanced	YOSHINORI TAKAO						No class in even year
QA10094	Advanced Computational Fluid Dynamics	KITAMURA KEIICHI						No class in even year
QA10134	Thermo-Fluid Dynamics of Combustion	ISHI KAZUHIRO	Fall	Thu.	2	N6-5	601	
QA10144	Topics on Applied fluid dynamics	HYAKUTAKE TORU	Fall	Wed.	1			
QA10151	Turbulence Measurement	NISHINO KOICHI	Spring	Intensive course				
QA10171	Advanced Combined Heat Transfer	SAKAI SEIGO	Spring	Wed.	4			
QA10184	Advanced Applied Thermofluid Engineering	ARAKI TAKUTO	Fall	Thu.	2			
QA10261	Two-phase flow phenomena	KUROSE KIZUKU						No class in even year
(S) QA19811	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	Intensive course				
(F) QA19814	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	Intensive course				

**Studio courses**

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
(S) QA15101	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15104	Sub-Research Studio A in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				
(S) QA15201	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	-				
(F) QA15204	Sub-Research Studio B in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	-				

**Related Lecture courses that make up the module**

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QA10014	Advanced Mechatronics Design	SATO YASUKAZU	Fall	Thu.	3			
QA10061	Robotic Manipulation	MAEDA YUUSUKE	Spring	Tue.	2			
QA10114	In-depth lecture on micro manipulation	FUCHIWAKI OHMI						No class in even year
QA10124	Special issues on mechanical system control	SANADA KAZUSHI						No class in even year
QA10194	Advanced Cyber-Robotics	KATO RYU						No class in even year
QA10241	Advanced Lectures on Dynamics of Mechines	HARA KENSUKE	Spring	Wed.	3			
QA10271	Advanced Course of Mechanical Engineering Informatics	FUJISAWA KEI						No class in even year
(S) QA19811	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Spring	Intensive course				
(F) QA19814	Overseas Internship in Mechanical Engineering	Each Instructor of Mechanical Engineering	Fall	Intensive course				

**Studio courses**

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
(S) QA25101	Sub-research exercise in Materials Engineering	UMEZAWA OSAMU , et.al.	Spring	Mon.	6			
(F) QA25104	Sub-research exercise in Materials Engineering	UMEZAWA OSAMU , et.al.	Fall	Mon.	6			

**Related Lecture courses that make up the module**

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QA20011	Optical Semiconductor Technology	MUKAI KOKI	Spring	Tue.	3			No class in AY2024
QA20021	Advanced Fracture Mechanics of Materials	HASEGAWA MAKOTO	Spring	Tue.	2			
QA20031	Special lecture of multi-functional composites	NAKAO WATARU						No class in even year
QA20044	Advanced Material Forming Process	MAENO TOMOYOSHI						No class in even year
QA20054	Advanced Functional Material Engineering	NAKATSUGAWA HIROSHI						No class in even year
QA20064	Fatigue of Metallic Materials	UMEZAWA OSAMU	4 th Term	Mon.	1・2	N6-5	421	
QA20074	Local Equilibrium Theory	HIROSAWA SHOICHI	Fall	Fri.	2			
QA20084	Leading-edge Materials Engineering	UMEZAWA OSAMU , et.al.	Fall	Thu.	4			
QA20121	Advanced thin film technology	Mitsuru Ohtake						No class in even year
QA20134	Microstructural Analysis of Materials	ONO NAOKO	Fall	Wed.	1	N6-5	421	
(S) QA29811	International Internships in Materials Engineering	UMEZAWA OSAMU , et.al.	Spring	Intensive course				
(F) QA29814	International Internships in Materials Engineering	UMEZAWA OSAMU , et.al.	Fall	Intensive course				

**Studio courses**

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
(S)QA35101	Sub-Research Studio (Ocean and Space Engineering)	Each Instructor of Systems Design for Ocean-Space , et.al.	Spring	-				
(F)QA35104	Sub-Research Studio (Ocean and Space Engineering)	Each Instructor of Systems Design for Ocean-Space , et.al.	Fall	-				

**Related Lecture courses that make up the module**

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QA30024	Structural Information System	KAWAMURA YASUMI	Fall	Tue.	6			
QA30034	Advanced Ship and Marine Structural Design Methodologies	OKADA TETSUO	Fall	Thu.	1			
QA30054	Advanced Seakeeping Qualities	HIRAKAWA YOSHIKI	Fall	Tue.	5			
QA30061	Advanced Aircraft Aerodynamic Design	MIYAJI KOJI	Spring	Thu.	3			
QA30071	Advanced Ocean Resources and Energy Engineering	NISHI YOSHIKI	Spring	Thu.	1	N10-1	203	
QA30084	Advanced Theory in Dynamics of Floating Bodies Engineering	MURAI MOTOHIKO	Fall	Fri.	2	S7-5	811	
QA30094	Advanced Aerospace Utilization Engineering	HIGUCHI TAKEHIRO	Fall	Wed.	4	S7-5	811	
QA30104	Advanced Engineering Turbulence	YOUHEI TAKAGI	Fall	Thu.	2	N10-1	210	
QA30114	Advanced Maritime Traffic Safety	ITO HIROKO , et.al.	Fall	Thu.	5	N10-1	309	
QA30121	Advanced Engineering for Ocean Development	OTSUBO KAZUHISA	Spring	Thu.	5	N10-1	309	
QA30131	Advanced Systems Engineering Theory of Ship Design	Taiga Mitsuyuki	Spring	Fri.	5	N10-1	204	
QA30144	Advanced Floating Body Hydrodynamics	LI QIAO	Fall	Mon.	5	N10-1	205	
(S)QA39811	International Internship in Ocean and Space System Engineering	Each Instructor of Systems Design for Ocean-Space , et.al.	Spring	Intensive course				
(F)QA39814	International Internship in Ocean and Space System Engineering	Each Instructor of Systems Design for Ocean-Space , et.al.	Fall	Intensive course				

## Chemistry and Life Science

### Studio courses

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QB25101	Engineering in Biology, Medicine and Bioanalytical Chemistry, Practice S	OKAZAKI SHINJI , et.al.	Spring	-				
QB25204	Engineering in Biology, Medicine and Bioanalytical Chemistry, Practice F	OKAZAKI SHINJI , et.al.	Fall	-				

### Related Lecture courses that make up the module

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QB10144	Functional Structural Biology	CHOJIRO KOJIMA						No class in even year
QB10174	Advanced Structural Life Science	KAWAMURA IZURU	Fall	Mon.	2			
QB20014	Industrial materials and materials chemistry	OKAZAKI SHINJI	Fall	Tue.	6			
QB20021	Electrochemical Materials	MATSUZAWA KOICHI						No class in even year
QB20034	Advanced Energy Chemistry	mitsushima shigenori , et.al.	Fall	Thu.	1			
QB20044	Materials for Energy Machines	TAKAHASHI KOJI	Fall	Mon.	1			
QB20051	Energy Value Chain System	MUGIKURA YOSHIHIRO						No class in even year
QB20061	Energy Conversion Technology	MORITA HIROSHI						No class in even year
QB20074	Material Science for Energy applications	YAMAMOTO TOHRU						No class in even year
QB20081	Environmental Energy Engineering	TAKAGAKI ATSUSHI , et.al.						No class in even year
QB20101	Chemical Energy Engineering	AIHARA MASAHIKO	Spring	Thu.	6	N8-5	313	
QB20114	Separation Engineering Excerptus	NAKAMURA KAZUHO	Fall	Unscheduled semester				
QB20121	Biopolymer Engineering	TAKEDA MINORU	Spring	Wed.	1			
QB20134	Advanced Medical Engineering	Kazutoshi Iijima						No class in even year
QB20141	Chemical Reactions in the Environment	YOSHITAKE HIDEAKI						No class in even year
QB20154	Biology of Phenome	KURIHARA YASUYUKI	Fall	Unscheduled semester				
QB20164	Advanced Developmental Engineering	SUZUKI ATSUSHI	Fall	Unscheduled semester				
QB20174	Advanced Functional Materials Science	KANAI TOSHIMITSU						No class in even year
QB20181	Special Lecture in Tissue Engineering and Regenerative Medicine	FUKUDA JUNJI						No class in even year
QB20194	Advanced Studies of Mixing for Chemical Engineering	MISUMI RYUTA	Spring	Unscheduled semester				
QB20204	Advanced Biochemical Engineering	NITTAMI TADASHI						No class in even year
(S) QB29821	PED International Internship in Chemistry Applications and Life Science	Each Instructor of Chemistry Applications and Life Science	Spring	Intensive course				
(F) QB29824	PED International Internship in Chemistry Applications and Life Science	Each Instructor of Chemistry Applications and Life Science	Fall	Intensive course				

**Studio courses**

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QB25301	Innovative Chemical Process Engineering Studio S	KANAI TOSHIMITSU , et.al.	Spring	-				
QB25404	Innovative Chemical Process Engineering Studio F	KANAI TOSHIMITSU , et.al.	Fall	-				
QB25501	Exercise in Advanced Energy Creation S	OKAZAKI SHINJI , et.al.	Spring	-				
QB25604	Exercise in Advanced Energy Creation F	OKAZAKI SHINJI , et.al.	Fall	-				

**Related Lecture courses that make up the module**

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QB20014	Industrial materials and materials chemistry	OKAZAKI SHINJI	Fall	Tue.	6			
QB20021	Electrochemical Materials	MATSUZAWA KOICHI						No class in even year
QB20034	Advanced Energy Chemistry	mitsushima shigenori , et.al.	Fall	Thu.	1			
QB20044	Materials for Energy Machines	TAKAHASHI KOJI	Fall	Mon.	1			
QB20051	Energy Value Chain System	MUGIKURA YOSHIHIRO						No class in even year
QB20061	Energy Conversion Technology	MORITA HIROSHI						No class in even year
QB20074	Material Science for Energy applications	YAMAMOTO TOHRU						No class in even year
QB20081	Environmental Energy Engineering	TAKAGAKI ATSUSHI , et.al.						No class in even year
QB20101	Chemical Energy Engineering	AIHARA MASAHICO	Spring	Thu.	6			
QB20114	Separation Engineering Excerptus	NAKAMURA KAZUHO	Fall	Unscheduled semester				
QB20121	Biopolymer Engineering	TAKEDA MINORU	Spring	Wed.	1			
QB20134	Advanced Medical Engineering	Kazutoshi Iijima						No class in even year
QB20141	Chemical Reactions in the Environment	YOSHITAKE HIDEAKI						No class in even year
QB20154	Biology of Phenome	KURIHARA YASUYUKI	Fall	Unscheduled semester				
QB20164	Advanced Developmental Engineering	SUZUKI ATSUSHI	Fall	Unscheduled semester				
QB20174	Advanced Functional Materials Science	KANAI TOSHIMITSU						No class in even year
QB20181	Special Lecture in Tissue Engineering and Regenerative Medicine	FUKUDA JUNJI						No class in even year
QB20194	Advanced Studies of Mixing for Chemical Engineering	MISUMI RYUTA	Spring	Unscheduled semester				
(S) QB29821	PED International Internship in Chemistry Applications and Life Science	Each Instructor of Chemistry Applications and Life Science	Spring	Intensive course				
(F) QB29824	PED International Internship in Chemistry Applications and Life Science	Each Instructor of Chemistry Applications and Life Science	Fall	Intensive course				

## Mathematics, Physics, Electrical Engineering and Computer Science

### Studio courses

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC35101	Practical System Design	HAMAGAMI TOMOKI , et.al.	Spring	-				
QC35104	Practical System Design	HAMAGAMI TOMOKI , et.al.	Fall	-				

### Related Lecture courses that make up the module

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC30024	Advanced Antennas and Propagation Engineering II	ARAI HIROYUKI	Fall	Fri.	1			
QC30054	Advanced Digital Circuit Theory	ICHIGE KOICHI	Fall	Wed.	3			
QC30071	Advanced Microwave Engineering	KUGA NOBUHIRO						No class in even year
QC30131	Advanced Intelligent Systems	HAMAGAMI TOMOKI	Spring	Thu.	4			
QC30421	Advanced Human Sensing Engineering	SUGIMOTO CHIKA	Spring	Thu.	4			
QC30444	Evolutionary Intelligence	NAKATA MASAYA	Fall	Mon.	2			
QC30451	Advanced Wireless Communications	ISHIKAWA NAOKI						No class in even year
QC30461	Advanced Multimodal Social Signal Processing	OTSUKA KAZUHIRO						No class in even year
(S) QC39831	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Spring	Intensive course				
(F) QC39834	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Fall	Intensive course				

### Studio courses

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC35201	System Device Studio	YOSHIKAWA NOBUYUKI , et.al.	Spring	-				
QC35204	System Device Studio	YOSHIKAWA NOBUYUKI , et.al.	Fall	-				

### Related Lecture courses that make up the module

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC30064	Advanced Data Storage	TAKEMURA YASUSHI	Fall	Thu.	4			
QC30104	Advanced Quantum Optoelectronics	BABA TOSHIHIKO	Fall	Fri.	4			
QC30114	Advanced Integrated Nanodevices	OYA TAKAHIDE						No class in even year
QC30141	Advanced Superconductivity Electronics	YOSHIKAWA NOBUYUKI	Spring	Wed.	3			
QC30194	Seminar in Quantum Effect Devices	ARAKAWA TARO	Fall	Tue.	4			
QC30201	Advanced Integrated Quantum Devices	YAMANASHI YUKI						No class in even year
QC30221	Advanced in Nanophotonics	NISHIJIMA YOSHIKI	Spring	-				
QC30414	Advanced Spintronics	SEKIGUCHI KOJI	Fall	Intensive course				
QC30471	Advanced Sensing Photonics	YOSUKE MIZUNO						No class in even year
(S) QC39831	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Spring	Intensive course				
(F) QC39834	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Fall	Intensive course				

**Studio courses**

Schedule code	Studio courses name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC35301	Energy and Control Practice	FUJIMOTO YASUTAKA , et.al.	Spring	-				
QC35304	Energy and Control Practice	FUJIMOTO YASUTAKA , et.al.	Fall	-				

**Related Lecture courses that make up the module**

Schedule code	Course name	Instructor	Semester	Day of the week	Class period	Bldg.	Room	Remarks
QC30041	Advanced Theory of Systems, Control and Information	FUJIMOTO YASUTAKA						No class in even year
QC30094	Advanced Mechatronics	SHIMONO TOMOYUKI						No class in even year
QC30431	Advanced Electrical-Mechanical Energy Conversion	AKATSU KAN	Spring	Mon.	5			
QC30164	Advanced Technology in Power System Protection and Control	TSUJI TAKAO	Fall	Tue.	4			
(S) QC39831	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Spring	Intensive course				
(F) QC39834	International Internships in Electrical and Computer Engineering	Each Instructor of Electrical and Computer Engineering	Fall	Intensive course				