

2025 The List of Course in English (英語で開講する科目リスト)IE研究科

2025/4/23更新

Department	時間割コード	科目区分	授業科目名	Category	Course Title	Instructor	Program	Semester	Term	Day1	Period	Day2	Period	Credit Points	Course's Type	Lecture in English		Lecture in Japanese		Materials/textbook		Individual Supports for International Students	Classes Recommended for International Students	
																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese			
J	25131106	専門科目Ⅰ	知的学習システム	Major Subjects I	Advanced Topics in Machine Learning	SHONO, Hayaru	Master Prog.	Spring Semester		Mon.	1			2	Cb			○	○					
J	25132105	専門科目Ⅱ	認知プロセス論特論	Major Subjects Ⅱ	Topics on Cognitive Processing	SAKAMOTO, Maki	Master and Doctor Prog.	Spring Semester		Mon.	3			2	Cb			○	○					
J	25132102	専門科目Ⅱ	認知科学特論	Major Subjects Ⅱ	Advanced Cognitive Sciences	HISANO, Masaki	Master and Doctor Prog.	Spring Semester		Mon.	4			2	Bb	○		○			○	○	- Materials are in English. - Questions and comments in English are also allowed in class.	○
J	25131114	専門科目Ⅰ	経営情報システム	Major Subjects I	Management Information Systems	YAMADA, Tetsuo	Master Prog.	Spring Semester		Wed.	2			2	Bc	○		○			○			
J	25131108	専門科目Ⅰ	データマイニング	Major Subjects I	Data Mining	HARADA, Kei & TAKAGI Masanori & OKAMOTO Kazushi	Master Prog.	Spring Semester		Tue.	4			2	Ca			○			○			
J	25132104	専門科目Ⅱ	学習工学特論	Major Subjects Ⅱ	Learning Informatics	KASHIHARA, Akihiro	Master and Doctor Prog.	Spring Semester		Thu.	2			2	Cb		○	○			○	○	- The course materials in English are provided upon request. - Videos to watch are being prepared with English subtitles.	○
J	25132119	専門科目Ⅱ	システム信頼性特論	Major Subjects Ⅱ	Advanced Theory of Systems Reliability	JIN, Lu	Master and Doctor Prog.	Spring Semester		Thu.	2			2	Bb	○		○			○	○	- Lectures and materials are provided in both English and Japanese.	○
J	25132133	専門科目Ⅱ	人工知能特論	Major Subjects Ⅱ	Artificial Intelligence	INABA, Michimasa	Master and Doctor Prog.	Spring Semester		Thu.	4			2	Cb			○			○	○		
J	25131117	専門科目Ⅰ	セキュリティ基礎	Major Subjects I	Fundamentals of Security	LI, Yang	Master Prog.	Spring Semester	Spring Term	Tue.	2	Fri.	2	2	Ba	○		○			○	○	- Basically lectures are provided in Japanese but English is used in parts.	○
J	25132128	専門科目Ⅱ	ヒューマンインタフェース特論	Major Subjects Ⅱ	Advanced Human Interface	NOJIMA, Takuya	Master and Doctor Prog.	Spring Semester		Fri.	2			2	Cb			○			○	○		
J	25132109	専門科目Ⅱ	インタラクティブシステム特論	Major Subjects Ⅱ	Advanced Interactive System	KAJIMOTO, Hiroyuki	Master and Doctor Prog.	Spring Semester		Fri.	4			2	Cb			○			○	○		
J	25131113	専門科目Ⅰ	会計情報システム	Major Subjects I	Fundamentals of Accounting Information Systems	KITADA, Hirotosugu	Master Prog.	Spring Semester						2	Bc	○		○			○			
J	25132112	専門科目Ⅱ	サービス・サイエンス特論	Major Subjects Ⅱ	Advanced Service Science	KATO, Shogo	Master and Doctor Prog.	Spring Semester		Fri.	2			2	Cb			○			○	○		
J	25132206	専門科目Ⅱ	視覚情報処理特論	Major Subjects Ⅱ	Advanced Visual Computing	TAKAHASHI, Hiroki	Master and Doctor Prog.	Fall Semester	Fall Term	Tue.	1	Fri.	1	2	Ca			○			○			
J	25132210	専門科目Ⅱ	マルチメディアコンピューティング特論	Major Subjects Ⅱ	Advanced Multimedia Computing	EGI, Hironori	Master and Doctor Prog.	Fall Semester		Tue.	2			2	Ca			○			○		- Lecture supports individually in English outside of class.	
J	25132203	専門科目Ⅱ	画像認識システム特論	Major Subjects Ⅱ	Advanced Image Recognition Systems	YANAI, Keiji	Master and Doctor Prog.	Fall Semester		Mon.	5			2	Bc	○		○			○			
J	25132238	専門科目Ⅱ	コンピュータネットワーク特論	Major Subjects Ⅱ	Advanced Computer Networks	OHZAHATA, Satoshi	Master and Doctor Prog.	Fall Semester		Tue.	3			2	Ca			○			○			
J	25132222	専門科目Ⅱ	離散情報構造特論	Major Subjects Ⅱ	Advanced Topics on Discrete Information Structure	ISHIGAMI, Yoshiyasu	Master and Doctor Prog.	Fall Semester		Tue.	4			2	Ba	○		○			○	○	- Materials and the writing on the board are in English.	○
J	25132224	専門科目Ⅱ	暗号理論特論	Major Subjects Ⅱ	Advanced Topics on Cryptography	IWAMOTO, Mitsugu	Master and Doctor Prog.	Fall Semester		Wed.	2			2	Bb	○		○			○	○	- Materials are in English. - Q&A in English are acceptable.	○
J	25132234	専門科目Ⅱ	時空間情報科学特論	Major Subjects Ⅱ	Spatiotemporal Informatics	YAMAMOTO, Kayoko	Master and Doctor Prog.	Fall Semester		Wed.	2			2	Bc	○		○			○		- Reference papers and materials in English are introduced. - In class, the important parts are also explained in English.	○

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																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese		
J	25131211	専門科目 I	情報理論基礎	Major Subjects I	Fundamentals of Information Theory	YAMAGUCHI, Kazuhiko	Master Prog.	Fall Semester		Thu.	3			2	Bc	○		○		○	- Technical terms are explained in both English and Japanese.	○	
J	25131105	専門科目 I	メディアアート論	Major Subjects I	Topics in Media Art	KODAMA, Sachiko	Master Prog.	Fall Semester		Thu.	5			2	Bb	○		○	○	○	- When video is in Japanese, the supplemental materials in English are provided. - Lecturer's slides are both in English and Japanese.	○	
J	25132226	専門科目 II	インテリジェントシステム特論	Major Subjects II	Advanced Topics on Intelligent Soft Computing Systems	HASHIYAMA, Tomonori	Master and Doctor Prog.	Fall Semester		Fri.	2			2	Bb	○		○	○	○	- Materials in English are provided	○	
J	25132223	専門科目 II	ソフトウェアセキュリティ特論	Major Subjects II	Advanced Software Security	ICHINO, Masatsugu	Master and Doctor Prog.	Fall Semester		Fri.	3			2	Cb			○	○				
I	25232252	専門科目 I	VLSI Low Power Circuit Design	Major Subjects I	VLSI Low Power Circuit Design	HOANG TRONG THUC	Master Prog.	Spring Semester		Mon.	2			2	Aa	○			○			- Lectures and materials are in English.	○
I	25231215	専門科目 I	ハイパフォーマンスコンピューティング基礎論	Major Subjects I	Fundamentals of High Performance Computing	YAMAMOTO, Yusaku	Master Prog.	Spring Semester		Wed.	7			2	Ca			○	○				
I	25232103	専門科目 II	環境電磁工学特論	Major Subjects II	Advanced Electromagnetic Compatibility	XIAO, Fengchao & KAYANO, Yoshiki	Master and Doctor Prog.	Spring Semester		Mon.	4			2	Cb			○	○				
I	25232133	専門科目 II	ベイズの人工知能特論	Major Subjects II	Advanced Theory on Bayesian Artificial Intelligence	UENO, Maomi	Master and Doctor Prog.	Spring Semester		Mon.	4			2	Cb			○	○				
I	25232142	専門科目 II	アルゴリズム工学特論	Major Subjects II	Advanced Topics on Algorithmic Engineering	Koga, hisashi	Master and Doctor Prog.	Spring Semester		Tue.	2			2	Cb	○		○	○				
I	25431113	専門科目 I	集積回路基礎	Major Subjects I	Fundamentals of VLSI Fabrication	TSUKAMOTO, Takahiro & MIYASITA Naoya	Master Prog.	Spring Semester		Tue.	3			2	Cb			○	○				
I	25232146	専門科目 II	データ工学原論 2	Major Subjects II	Principles of Data Engineering 2	OHMORI, Tadashi	Master and Doctor Prog.	Spring Semester		Tue.	2			2	Cb			○	○				
I	25232136	専門科目 II	量子情報数理特論	Major Subjects II	Advanced Topics on Quantum Information Theory	OGAWA, Tomohiro	Master and Doctor Prog.	Spring Semester		Wed.	3			2	Bb	○		○	○				
I	25232147	専門科目 II	並列処理論第一	Major Subjects II	Parallel Processing I	HONDA, Hiroki	Master and Doctor Prog.	Spring Semester		Wed.	3			2	Cb			○	○				
I	25232137	専門科目 II	ネットワークコンピューティング特論	Major Subjects II	Advanced Network Computing	Wu Celimuge	Master and Doctor Prog.	Spring Semester		Wed.	6			2	Ba	○		○	○			○	
I	25232112	専門科目 II	伝送工学特論	Major Subjects II	Advanced Transmission Engineering	ANDO, Yoshiaki	Master and Doctor Prog.	Spring Semester		Thu.	2			2	Cb			○	○				
I	25432214	専門科目 II	固体照明工学特論	Major Subjects II	Solid State Lighting	TAJIRI, Takeyoshi	Master and Doctor Prog.	Spring Semester		Thu.	3			2	Ba	○		○	○				
I	25232125	専門科目 II	理論計算機科学特論	Major Subjects II	Advanced Study for Theoretical Computer Science	TARUI, Jun	Master and Doctor Prog.	Spring Semester		Thu.	3			2	Ba	○		○	○				
I	25231110	専門科目 I	デジタル信号処理基礎	Major Subjects I	Fundamentals of Digital Signal Processing	ZHANG, Xi & WASHIZAWA, Yoshikazu	Master Prog.	Spring Semester		Thu.	4			2	Ca			○	○			- Materials are in English while lecture is in Japanese. - Assignment is also provided in English and students is allowed to write reports in English. Q&A in English is acceptable.	
I	25232127	専門科目 II	計算機特論	Major Subjects II	Topics on Theory of Computation	ITO, Hiro	Master and Doctor Prog.	Spring Semester		Thu.	4			2	Bc	○		○	○				
I	25231107	専門科目 I	情報通信ネットワーク	Major Subjects I	Information and Communication Networks	KITSUWAN NATTAPONG	Master Prog.	Spring Semester		Mon.	3			2	Aa	○		○	○			- Lectures and materials are in English.	○
I	25232111	専門科目 II	信号解析学特論	Major Subjects II	Advanced Signal Processing	ITO, Hiroya	Master and Doctor Prog.	Spring Semester		Fri.	3			2	Cb			○	○				
I	25232104	専門科目 II	無線通信システム特論	Major Subjects II	Advanced Radio Communication Systems	FUJII, Takeo & KOJIMA, Toshiharu	Master and Doctor Prog.	Spring Semester		Mon.	1			2	Ca								
I	25232101	専門科目 II	集積回路設計特論	Major Subjects II	Advanced Integrated Circuit Design	ISHIKAWA, Ryo & KOJIMA, Toshiharu & ONO, Satoshi	Master and Doctor Prog.	Spring Semester			2			2	Cb			○	○				
I	25232235	専門科目 II	情報幾何学特論	Major Subjects II	Advanced Topics on Information Geometry	SUZUKI, Jun	Master and Doctor Prog.	Fall Semester		Wed.	2			2	Bb	○		○	○				
I	25232244	専門科目 II	基盤ソフトウェア特論	Major Subjects II	Advanced Programming Languages, Concepts and	KOMIYA, Tsuneyasu	Master and Doctor Prog.	Fall Semester		Mon.	3			2	Cb			○	○				
I	25132203	専門科目 II	画像認識システム特論	Major Subjects II	Advanced Image Recognition Systems	KEIJI, XANI	Master and Doctor Prog.	Fall Semester		Mon.	5			2	Bc	○		○	○				
I	25231214	専門科目 I	応用アルゴリズム論	Major Subjects I	Applied Algorithms	ROBAYASHI, Satoshi	Master Prog.	Fall Semester		Tue.	3			2	Cb			○	○				

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																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese					
I	25232238	専門科目II	計算機ネットワーク特論	Major Subjects II	Advanced Interconnection Networks	YOSHINAGA, Tsutomu	Master and Doctor Prog.	Fall Semester		Tue.	3			2	Bb		○		○							
I	25232213	専門科目II	電磁波環境観測技術特論	Major Subjects II	Advanced topics on electromagnetic wave technology	HOBARA, Yasuhide	Master and Doctor Prog.	Fall Semester		Tue.	4			2	Bb		○		○							
I	25232231	専門科目II	情報ネットワーク特論	Major Subjects II	Topics on Information Networks	TANG, Suhua	Master and Doctor Prog.	Fall Semester		Tue.	4			2	Cb			○		○						
I	25232143	専門科目II	システムソフトウェア特論	Major Subjects II	Advanced Topics on System Software	YAMAKI, Hayato	Master and Doctor Prog.	Fall Semester		Tue.	5			2	Cb			○		○						
I	25232241	専門科目II	音声対話処理	Major Subjects II	Advanced Theory on Spoken Dialog Processing	MINAMI, Yasuhiro	Master and Doctor Prog.	Fall Semester		Fri.	2			2	Ba		○		○					○		
I	25232240	専門科目II	データ解析最適化論	Major Subjects II	Advanced Topics in Data Analysis Optimization	LIU, Zhi	Master and Doctor Prog.	Fall Semester	Fall Term	Mon.	1	Thu.	1	2	Aa		○							- Lectures and materials are in English.	○	
I	25232205	専門科目II	情報理論特論	Major Subjects II	Advanced Information Theory	OHAMA, Yasutada	Master and Doctor Prog.	Fall Semester		Thu.	2			2	Cb			○		○						
I	25231209	専門科目I	回路システム基礎	Major Subjects I	Fundamentals of Circuits and Systems	NISHI, Kazuki & KOJIMA Toshiharu	Master Prog.	Fall Semester		Thu.	4			2	Cb			○		○						
I	25232232	専門科目II	ネットワークアプリケーション特論	Major Subjects II	Advanced Topics on Network Applications	YAZAKI, Shunzi	Master and Doctor Prog.	Fall Semester		Thu.	2			2	Cb			○		○						
I	25232234	専門科目II	統計的機械学習特論	Major Subjects II	Advanced Statistical Machine Learning	NISHIYAMA, Yu & UTO Masaki	Master and Doctor Prog.	Fall Semester		Thu.	2			2	Cb			○		○						
I	25232216	専門科目II	ヒューマンインタフェース特論	Major Subjects II	Advanced Topics on Human Interface	FUJITA, Hideyuki	Master and Doctor Prog.	Fall Semester		Fri.	3			2	Cb			○		○						
I	25132223	専門科目II	ソフトウェアセキュリティ特論	Major Subjects II	Advanced Software Security	ICHINO, Masatsugu	Master and Doctor Prog.	Fall Semester		Fri.	3			2	Cb			○		○						
I	25232248	専門科目II	並列処理論第二	Major Subjects II	Parallel Processing II	MIWA, Shinobu	Master and Doctor Prog.	Fall Semester		Thu.	4			2	Cb			○		○						
I	25232249	専門科目II	CMOS集積回路設計特論	Major Subjects II	CMOS Advanced Integrated Circuit Design	PHAM, Congkha	Master and Doctor Prog.	Fall Semester		Fri.	2			2	Ba											
I	25232207	専門科目II	宇宙通信工学特論	Major Subjects II	Advanced Space Communication Engineering	HOSOKAWA, Keisuke	Master and Doctor Prog.	Fall Semester						2	Ba		○		○					- This subject is provided on demand, in which presentation materials are in English (while lecture is in Japanese). - The materials in Google Classroom be translated by ...	○	
I	25231219	専門科目I	連続最適化基礎論	Major Subjects I	Foundation of Continuous Optimization	MURAMATSU, Masakazu	Master and Doctor Prog.	Fall Semester	Fall Term	Mon.	3	Thu.	4	2	Bb		○		○		○				○	
M	25332105	専門科目II	知覚システム特論	Major Subjects II	Advanced topics in perceptual system	SATOH, Shunji	Master and Doctor Prog.	Spring Semester		Mon.	3			2	Ca			○		○				- All the materials and assignments are provided in English.	○	
M	25331106	専門科目I	熱工学基礎	Major Subjects I	Fundamentals of Thermodynamics	OKAWA, Tomio & ENOKI, Koii	Master Prog.	Spring Semester		Mon.	4			2	Bb		○		○		○				○	
M	25331110	専門科目I	生産加工学基礎	Major Subjects I	Fundamentals of Mechanical Working	KUBOKI, Takashi & KAJIKAWA, Shehei	Master Prog.	Spring Semester		Tue.	1			2	Bb		○		○		○				- Materials are provided in both Japanese and English. - Announcements on Google Classroom are also provided in two languages. - Q&A in English is also acceptable. - In the practical training, supplementary explanations are provided in English for international students.	○
M	25331107	専門科目I	流体工学基礎	Major Subjects I	Fundamentals of Fluid Engineering	INOUE, Yohei	Master Prog.	Spring Semester		Tue.	2			2	Cb			○		○					○	
M	25331113	専門科目I	制御系設計学基礎	Major Subjects I	Fundamentals of Control System Design	KOGISO, Kiminao	Master Prog.	Spring Semester		Tue.	3			2	Bb		○		○		○				- The writing on the board are provided in English. - Supplementary explanations are provided in English for important parts.	○
M	25331105	専門科目I	機械知能システム学専攻基礎	Major Subjects I	Fundamental of Mechanical and Intelligent Systems Engineering	KAN, Tetsuo & SUN, Guanghao & MURAMATSU, Dairoku	Master Prog.	Spring Semester		Wed.	2			2	Bb		○		○		○					○

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																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese			
M	25331108	専門科目 I	バイオメカニクス基礎	Major Subjects I	Fundamentals of Biomechanics	OKADA, Hidetaka	Master Prog.	Spring Semester		Thu.	1			2	Cb			○		○	○		○	
M	25331111	専門科目 I	計測工学基礎	Major Subjects I	Fundamentals of Measurement Engineering	MIYAWAKI, Yoichi	Master Prog.	Spring Semester		Thu.	3			2	Bc	○		○			○		- No support in English but Q&A in English is acceptable.	
M	25331112	専門科目 I	ロボット工学基礎	Major Subjects I	Fundamentals of robotics	MING, Aiguo & KOIZUMI, Norihiro & SATO, Ryuki	Master Prog.	Spring Semester		Thu.	4			2	Bb	○		○			○	○	- The materials with equivalent contents in English are prepared separately from the lecture materials.	○
M	25332106	専門科目 II	感覚運動システム特論	Major Subjects II	Advanced topics on sensorimotor system	SAKAGUCHI, Yutaka	Master and Doctor Prog.	Spring Semester		Fri.	2			2	Bc	○		○			○		- Upon request, the materials with equivalent contents in English can be prepared separately.	○
M	25332108	専門科目 II	大学院国際協働学術研修	Major Subjects II	Graduate International Jointly Offered Academic Training I	KAN, Tetsuo	Master and Doctor Prog.	Spring Semester						2	Aa	○					○		- Lectures and materials are in English. - Writing reports and oral presentations in English are mandatory for all students.	○
M	25332109	専門科目 II	大学院国際協働学術研修 (長期)	Major Subjects II	Graduate International Jointly Offered Academic Training II	KAN, Tetsuo	Master and Doctor Prog.	Spring Semester						4	Aa	○					○		- Lectures and materials are in English. - Writing reports and oral presentations in English are mandatory for all students.	○
M	25332210	専門科目 II	運動計測学特論	Major Subjects II	Advanced Measurement and Evaluation of Human Motor Movement	ANDO, Soichi	Master and Doctor Prog.	Fall Semester	Fall Term	Mon.	1	Thu.	1	2	Cb			○			○	○		○
M	25332207	専門科目 II	メカトロニクス特論	Major Subjects II	Advanced Mechatronics	KANAMORI, Chisato & TOGO, Shunta	Master and Doctor Prog.	Fall Semester		Mon.	2			2	Bb		○		○		○	○	- Technical terms in English are displayed in materials. - The materials with equivalent contents in English are prepared separately from the lecture materials. - Assignment translated in English is provided.	○
M	25332208	専門科目 II	ロボット応用工学特論	Major Subjects II	Advanced Robotics Engineering and Applications	UCHIDA, Masafumi & TANAKA, Motoyasu	Master and Doctor Prog.	Fall Semester		Mon.	3			2	Bb		○		○		○	○		○
M	25332209	専門科目 II	ロボット機構制御特論	Major Subjects II	Advanced Course of Robotics and Control	TANAKA, Kazuo & YOKOI, Hiroshi	Master and Doctor Prog.	Fall Semester		Mon.	4			2	Ca			○			○	○		○
M	25332215	専門科目 II	知的生産システム特論	Major Subjects II	Advanced Intelligent Production System	MORISHIGE, Koichi	Master and Doctor Prog.	Fall Semester		Tue.	1			2	Bb		○		○		○	○	- Presentation materials are provided in both Japanese and English. - Video clips to watch in class are in English.	○
M	25332214	専門科目 II	設計システム工学特論	Major Subjects II	Advanced Engineering of Design Systems	MASUDA, Hiroshi & YUKI, Hironobu	Master and Doctor Prog.	Fall Semester		Tue.	2			2	Bb		○		○		○	○		○
M	25432218	専門科目 II	ナノトライボロジー特論	Major Subjects II	Advanced Nanotribology	SASAKI, Naruo	Master and Doctor Prog.	Fall Semester		Tue.	4			2	Cb			○			○	○		○

2025 The List of Course in English (英語で開講する科目リスト)IE研究科

2025/4/23更新

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																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese				
M	25332213	専門科目Ⅱ	ロボット情報工学特論	Major Subjects Ⅱ	Advanced Information Engineering for Robotics	FUNATO, Tetsuro & NAKATA, Yoshihiro	Master and Doctor Prog.	Fall Semester		Wed.		2		2	Ca			○		○			- Materials are provided in English. - Upon request, support in English is available individually.	○	
M	25332217	専門科目Ⅱ	力学系現象特論	Major Subjects Ⅱ	Advanced Theory of Dynamical Systems	Matuttis Hans-Georg & MAMORI, HIROYA	Master and Doctor Prog.	Fall Semester		Thu.		1		2	Bb		○		○	○	○			○	
M	25332211	専門科目Ⅱ	バーチャルリアリティ特論	Major Subjects Ⅱ	Advanced Virtual Reality	SUGI, Masao	Master and Doctor Prog.	Fall Semester		Thu.		2		2	Bb		○		○	○	○			- Presentation materials is provided in both English and Japanese. - Video clips to watch in class are mostly in English. - Student presentation is allowed to be provided in English.	○
M	25332223	専門科目Ⅱ	システム制御理論特論	Major Subjects Ⅱ	Advanced Systems and Control Theory	KANEKO, Osamu	Master and Doctor Prog.	Fall Semester		Thu.		3		2	Bb		○		○	○	○			- Lecture and materials are provided in both Japanese and English.	○
M	25332202	専門科目Ⅱ	生体計測工学特論	Major Subjects Ⅱ	Advanced Bioinstrumentation Engineering	KOIKE, Takuzi & MASAMOTO, Kazuto	Master and Doctor Prog.	Fall Semester		Thu.		5		2	Cb				○	○	○			- Students support each other and Q&A in English is acceptable. - Assignments are allowed to be written in English.	○
M	25332218	専門科目Ⅱ	計算力学特論	Major Subjects Ⅱ	Advanced Computational Mechanics	CHIBA, Kazuhisa & MAMORI, HIROYA	Master and Doctor Prog.	Fall Semester		Fri.		2		2	Bb		○		○	○	○			- Lecture and materials are provided in both Japanese and English.	○
M	25332204	専門科目Ⅱ	組込み制御システム学特論	Major Subjects Ⅱ	Advanced Embedded Control System	SAWADA, Kenji	Master and Doctor Prog.	Fall Semester		Fri.		4		2	Ba		○		○	○	○			- Materials in English are provided for assignments	○
M	25332220	専門科目Ⅱ	Advanced Robotics and Mechatronics Engineering	Major Subjects Ⅱ	Advanced Robotics and Mechatronics Engineering	KOIZUMI, Norihiro & KAN, Tetsuo & SATO, Ryuki & JIANG, Yinlai & KUDO, Syunsuke & TANAKA, Motoyasu & NAKATA, Yoshihiro	Master and Doctor Prog.	Fall Semester						2	Aa		○			○	○			○	
S	25431115	専門科目Ⅰ	画像情報学基礎	Major Subjects I	Fundamentals of Image Engineering	SHIGA, Tomokazu	Master Prog.	Spring Semester		Mon.		3		2	Cb				○	○	○				
S	25432109	専門科目Ⅱ	固体・ソフトマターフォトンクス特論	Major Subjects Ⅱ	Solid State and Soft Matter Photonics	SHOJI, Satoru	Master and Doctor Prog.	Spring Semester		Mon.		4		2	Bb		○		○	○	○			- Support in English is	○
S	25432120	専門科目Ⅱ	現代レーザー光学特論	Major Subjects Ⅱ	Advanced Laser Spectroscopy	NAKAGAWA, Ken'ichi & MORINAGA, Makoto	Master and Doctor Prog.	Spring Semester		Mon.		4		2	Cb				○	○	○			- Support in English is	○
S	25431111	専門科目Ⅰ	分子細胞生物学基礎	Major Subjects I	Fundamentals of Cell and Molecular Biology	SHIRAKAWA, Hideki	Master Prog.	Spring Semester		Tue.		1		2	Ca				○	○	○				
S	25432116	専門科目Ⅱ	低温量子物性工学特論	Major Subjects Ⅱ	Advanced Low Temperature Physics	TANIGUCHI, Junko & ENDO, Shimeizi	Master and Doctor Prog.	Spring Semester		Tue.		1		2	Ba		○		○	○	○			Support in English (by video) is available	○
S	25432104	専門科目Ⅱ	ナノエレクトロニクス特論	Major Subjects Ⅱ	Advanced Nano-Electronics	NAKAMURA, Jun	Master and Doctor Prog.	Spring Semester		Tue.		2		2	Bb			○	○	○	○				
S	25431113	専門科目Ⅰ	集積回路基礎	Major Subjects I	Fundamentals of VLSI Fabrication	TSUKAMOTO, Takahiro & MIYASITA, Naoya	Master Prog.	Spring Semester		Tue.		3		2	Cb				○	○	○				
S	25431107	専門科目Ⅰ	光・量子エレクトロニクス基礎	Major Subjects I	Fundamentals of Optical and Quantum Electronics	ZHANG, Yun	Master Prog.	Spring Semester		Tue.		4		2	Ba		○		○	○	○			- Support in English is	○
S	25432140	専門科目Ⅱ	生命分子化学特論	Major Subjects Ⅱ	Biomolecular Chemistry	TANAKA, Makiko	Master and Doctor Prog.	Spring Semester		Wed.		2		2	Cb				○	○	○				
S	25432102	専門科目Ⅱ	ナノフォトンクス特論	Major Subjects Ⅱ	Advanced Nanophotonics	SHOJI, Satoru	Master and Doctor Prog.	Spring Semester		Wed.		3		2	Bb		○		○	○	○			- Support in English is	○
S	25431108	専門科目Ⅰ	光デバイス工学基礎	Major Subjects I	Fundamentals of Photonic Devices	YAMAGUCHI, Kouichi	Master Prog.	Spring Semester		Thu.		2		2	Cb				○	○	○			- Support in English is	○
S	25432121	専門科目Ⅱ	原子光工学特論	Major Subjects Ⅱ	Advanced Atomic and Optical Physics	NAKAMURA, Nobuyuki & KATSURAGAWA,	Master and Doctor Prog.	Spring Semester		Thu.		3		2	Cb				○	○	○			- Support in English is	○

2025 The List of Course in English (英語で開講する科目リスト)IE研究科

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																Face-to-face	On demand (Video)	Face-to-face	On demand (Video)	English	Japanese			
S	25432101	専門科目Ⅱ	環境材料科学特論	Major Subjects Ⅱ	Advanced Environmental Materials Science	FURUKAWA, Rei	Master and Doctor Prog.	Spring Semester		Wed.	2			2	Aa	○		○	○	○	○	○	Support in English is	○
S	25431116	専門科目Ⅰ	光化学	Major Subjects I	Fundamentals of Photochemistry	HIRANO, Takashi	Master Prog.	Spring Semester		Fri.	1			2	Cb		○		○	○	○	○	Support in English is	○
S	25431112	専門科目Ⅰ	生体情報学基礎	Major Subjects I	Fundamentals of Information Biology	MATSUDA, Shinji	Master Prog.	Spring Semester		Fri.	3			2	Cb			○	○	○	○	○	Support in English is	○
S	25431118	専門科目Ⅰ	固体量子工学	Major Subjects I	Fundamentals of Solid State Electronics	IKEDA, Yuki	Master Prog.	Spring Semester						2	Cb		○		○	○	○	○	Support in English is	○
S	25431110	専門科目Ⅰ	固体物性論基礎	Major Subjects I	Fundamentals of Solid State Physics	KOKUBO, Nobuhito & MURAKAWA, Takahiro	Master Prog.	Spring Semester						2	Ca			○	○	○	○	○	Support in English is	○
S	25431119	専門科目Ⅰ	生物有機化学	Major Subjects I	Bio-organic chemistry	TAKI, Masumi	Master Prog.	Spring Semester						2	Cb			○	○	○	○	○	Support in English is	○
S	25432113	専門科目Ⅱ	物理工学特論	Major Subjects Ⅱ	Advanced Engineering Physics	KATO, Daiji	Master and Doctor Prog.	Spring Semester						2	Cb			○	○	○	○	○	Support in English is	○
S	25432128	専門科目Ⅱ	化学生命工学特論	Major Subjects Ⅱ	Selected Topics in Chemistry and Biotechnology	HIROTA, Ryuichi & KAWAI, Gota	Master and Doctor Prog.	Spring Semester						2	Cb			○	○	○	○	○	Support in English is	○
S	25432141	専門科目Ⅱ	オープンラボワークⅠ挑戦	Major Subjects Ⅱ	Open Lab work I - Challenge	YONEDA, Hitoki	Master Prog.	Spring Semester						4	Bb	○		○	○	○	○	○	Support in English is	○
S	25432142	専門科目Ⅱ	オープンラボワークⅡ開拓	Major Subjects Ⅱ	Open Lab work II - Cultivation	YONEDA, Hitoki	Master Prog.	Spring Semester						4	Bb	○		○	○	○	○	○	Support in English is	○
S	25432143	専門科目Ⅱ	オープンラボワークⅢ融合	Major Subjects Ⅱ	Open Lab work III - Integration	YONEDA, Hitoki	Master and Doctor Prog.	Spring Semester						4	Bb	○		○	○	○	○	○	Support in English is	○
S	25432144	専門科目Ⅱ	オープンラボワークⅣ革新	Major Subjects Ⅱ	Open Lab work IV - Innovation	YONEDA, Hitoki	Master and Doctor Prog.	Spring Semester						4	Bb	○		○	○	○	○	○	Support in English is	○
S	25431217	専門科目Ⅰ	応用電磁気学	Major Subjects I	Fundamentals of Electromagnetic Theory	NAKAGAWA, Ken'ichi & SHIRAKAWA, Akira	Master Prog.	Fall Semester		Mon.	2			2	Cb			○	○	○	○	○	Support in English is	○
S	25432224	専門科目Ⅱ	X線結晶学特論	Major Subjects Ⅱ	Advanced X-Ray Crystallography	YASUI, Masanori	Master and Doctor Prog.	Fall Semester		Mon.	3			2	Ca			○	○	○	○	○	Support in English is	○
S	25432230	専門科目Ⅱ	物理化学特論	Major Subjects Ⅱ	Advanced Analytical Chemistry	YAMAKITA, Yoshihiro	Master and Doctor Prog.	Fall Semester		Tue.	1			2	Bb	○		○	○	○	○	○	Support in English is	○
S	25432211	専門科目Ⅱ	情報光学特論	Major Subjects Ⅱ	Advanced Information Optics and Photonics	MUSHA, Mitsuuru	Master and Doctor Prog.	Fall Semester		Tue.	2			2	Ca			○	○	○	○	○	Support in English is	○
S	25432231	専門科目Ⅱ	ゲノム生物学特論	Major Subjects Ⅱ	Advanced Genome Biology	SAMPEI, Gen'ichi	Master and Doctor Prog.	Fall Semester		Tue.	2			2	Cb			○	○	○	○	○	Support in English is	○
S	25431214	専門科目Ⅰ	量子エネルギー科学	Major Subjects I	Quantum Energy Science	KOBAYASHI, Yoshio	Master Prog.	Fall Semester		Tue.	3			2	Ca			○	○	○	○	○	Support in English is	○
S	25432215	専門科目Ⅱ	量子情報光学特論	Major Subjects Ⅱ	Quantum Information Optics	MIYAMOTO, YOKO & SHIMIZU, Ryomaake	Master and Doctor Prog.	Fall Semester		Tue.	3			2	Ba	○		○	○	○	○	○	Support in English is	○
S	25431220	専門科目Ⅰ	生体機能システム学基礎	Major Subjects I	Basic human physiology	KANO, Yutaka & HOSHINO, Daisuke	Master Prog.	Fall Semester		Tue.	4			2	Cb			○	○	○	○	○	Support in English is	○
S	25432218	専門科目Ⅱ	ナノバイオロジー特論	Major Subjects Ⅱ	Advanced Nanotribology	SASAKI, Naruo	Master and Doctor Prog.	Fall Semester		Tue.	4			2	Cb			○	○	○	○	○	Support in English is	○
S	25432229	専門科目Ⅱ	無機物質化学特論	Major Subjects Ⅱ	Advanced Inorganic Materials Chemistry	KAKO, Masahiro	Master and Doctor Prog.	Fall Semester		Wed.	2			2	Cb			○	○	○	○	○	Support in English is	○
S	25431206	専門科目Ⅰ	先端半導体デバイス基礎	Major Subjects I	Fundamentals of Modern Semiconductor Devices	ISSHIKI, Hideo	Master Prog.	Fall Semester		Wed.	45			2	Bb	○		○	○	○	○	○	Support in English is	○
S	25432219	専門科目Ⅱ	統計物理学特論	Major Subjects Ⅱ	Advanced Statistical Physics	OZEKI, Yukiyasu	Master and Doctor Prog.	Fall Semester		Thu.	2			2	Cb			○	○	○	○	○	Support in English is	○
S	25332202	専門科目Ⅱ	生体計測工学特論	Major Subjects Ⅱ	Advanced Bioinstrumentation Engineering	KOIKE, Takuzi & MASAMOTO, Kazuto	Master and Doctor Prog.	Fall Semester		Thu.	5			2	Cb			○	○	○	○	○	Support in English is	○
S	25431221	専門科目Ⅰ	実践的先進機器分析	Major Subjects I	Practical advanced instrumental analysis	ISHIDA, Takayuki & HIRANO, Takashi & YASUI, Masanori & KUWAHARA, Daisuke & SHIRAKAWA, Hideki & NAKAMURA, Jin & SHIMADA, Hisashi	Master Prog.	Fall Semester		Thu.	45			2	Bb	○		○	○	○	○	○	Support in English is available.	○
S	25432222	専門科目Ⅱ	凝縮体量子工学特論	Major Subjects Ⅱ	Selected Topics on Quantum Degenerate Systems	SAITO, Hiroki & KISHIMOTO, Tetsuo	Master and Doctor Prog.	Fall Semester		Fri.	2			2	Aa	○		○	○	○	○	○	Support in English is	○
S	25432225	専門科目Ⅱ	固体物性化学特論	Major Subjects Ⅱ	Advanced Solid State Chemistry	ISHIDA, Takayuki & HIRATA, Shuzo	Master and Doctor Prog.	Fall Semester		Fri.	2			2	Aa	○		○	○	○	○	○	Support in English is	○
S	25432208	専門科目Ⅱ	光通信デバイス特論	Major Subjects Ⅱ	Design Techniques of Opto-electronic Devices	UENO, Yoshiyasu	Master and Doctor Prog.	Fall Semester		Fri.	3			2	Cb			○	○	○	○	○	Support in English is	○
S	25432223	専門科目Ⅱ	電子物性特論	Major Subjects Ⅱ	Advanced Lectures on Electronic Properties in Solids	NAKAMURA, Jin & MATSUBAYASHI, Kazuyuki	Master and Doctor Prog.	Fall Semester		Fri.	4			2	Cb			○	○	○	○	○	Support in English is	○
J, I, M, S	25010101	基礎教育科目	大学院総合コミュニケーション科学	Graduate School Fundamental Subjects	Graduate course of science and technology on communications	SYOUNO, Hayaru	Master and Doctor Prog.	Fall Semester						2	Aa		○		○	○	○	○	Support in English is	○
J, I, M, S	25023217	実践教育科目	SDGsを支える情報通信論	Graduate School Practical Subjects	Information and Communications Technologies for SDGs	MATSUURA, Motoharu & TAKAHASHI, Hiroaki	Master and Doctor Prog.	Spring Semester		Fri.	5			2	Ba	○		○	○	○	○	○	Support in English is	○
J, I, M, S	25010124	基礎教育科目	言語と論理の哲学	Graduate School Fundamental Subjects	Philosophy of Language and Logic	AKIYOSHI, Ryota	Master and Doctor Prog.	Spring Semester		Fri.	5			2	Bc								Support in English is	○
J, I, M, S	25010102	基礎教育科目	幾何学基礎論	Graduate School Fundamental Subjects	Fundamental of Geometry	MARUGAME, Taiji	Master Prog.	Spring Semester		Fri.	5				Cb								Support in English is	○
J, I, M, S	25023111	実践教育科目	オープンイノベーションスクールⅠ	Graduate School Practical Subjects	Open Innovation School I	YONEDA, Hitoki	Master Prog.	Spring Semester						1	Bb	○		○	○	○	○	○	Support in English is	○
J, I, M, S	25023112	実践教育科目	オープンイノベーションスクールⅡ	Graduate School Practical Subjects	Open Innovation School II	YONEDA, Hitoki	Master Prog.	Spring Semester						1	Bb	○		○	○	○	○	○	Support in English is	○

2025 The List of Course in English (英語で開講する科目リスト)IE研究科

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J, I, M, S	26023101	実践教育科目	オープンイノベーションスクールⅢ	Graduate School Practical Subjects	Open Innovation SchoolⅢ	YONEDA, Hitoki	Doctor Prog.	Spring Semester						1	Bb	○		○		○	○		
J, I, M, S	26023102	実践教育科目	オープンイノベーションスクールⅣ	Graduate School Practical Subjects	Open Innovation SchoolⅣ	YONEDA, Hitoki	Doctor Prog.	Spring Semester						1	Bb	○		○		○	○		
J, I, M, S	26023103	実践教育科目	オープンイノベーションスクールⅤ	Graduate School Practical Subjects	Open Innovation SchoolⅤ	YONEDA, Hitoki	Doctor Prog.	Spring Semester						1	Bb	○		○		○	○		
J, I, M, S	25010213	基礎教育科目	代数学特論	Graduate School Fundamental Subjects	Advanced Topics in Algebra	OHNO, Masahiro	Master Prog.	Spring Semester		Wed.	1			2	Bc	○		○			○		
J, I, M, S	25010208	基礎教育科目	科学技術の歴史	Graduate School Fundamental Subjects	History of Science	SATO, Ken'ichi	Master and Doctor Prog.	Fall Semester		Wed.	1			2	Cb			○		○	○		
J, I, M, S	25023203	実践教育科目	先端技術開発特論	Graduate School Practical Subjects	Advanced Engineering Development	SHIMADA, Hiroshi	Master and Doctor Prog.	Fall Semester		Wed.	5			2	Cb				○	○	○		
J, I, M, S	25023310	実践教育科目	英システム創造	Graduate School Practical Subjects	Project-based Learning of Practical Information System	HASHIYAMA, Tomonori & TAHARA, Yasuyuki & KOMIYA, Tsuneo	Master Prog.			Wed.	4			2	Cb			○		○	○		
J, I, M, S	25023107	実践教育科目	国際科学技術コミュニケーション論	Graduate School Practical Subjects	International Communication for Science and Technology	Motoharu&TAKAHASHI,Hioki	Master and Doctor Prog.	Fall Semester		Fri.	5			2	Ab	○				○	○		○
J, I, M, S	25023306	実践教育科目	危機・限界体験特別実験	Graduate School Practical Subjects	Advanced Experiments of Danger Experience and Failing Observation	SUZUKI, Masaru & SHIMADA, Hiroshi & YONEDA, Hitoki & MIYAMOTO_YOKO	Master Prog.			Mon.	5			2	Cb			○		○	○		
J, I, M, S	25023304	実践教育科目	ETL	Graduate School Practical Subjects	ETL (Elementary Teaching Laboratory)	SUZUKI, Masaru & SHIMADA, Hiroshi & YONEDA, Hitoki & MIYAMOTO_YOKO	Master and Doctor Prog.							2	Cb			○		○	○		