Course Number	Course Name	Instr uctio nal Type	Credit s	standa rd regist ration year	Term	Meeting Days,Per iod etc.	Classro om	Instructor	Course Overview	Remarks
OATW111	Practical Data Science	1	2.0	1, 2	Spr AB	Thu3, 4	7A103	Moritsugu Shuichi,ITO Hiroyoshi,Yoshik ane Fuyuki	According to recent studies, the demand in society for data scientists with broad experience in data analysis is increasing. The initial units will focus on the relation among data science, basic mathematics and statistics, aiming at the application to computational algebraic statistics. In the middle units, we will focus on hypothesis testing for actual data and the theory of decision-making based on the predictions. In the last units, students will learn methods of analysis on the basis of informetric data. In particular, the sample-size dependency of informetric indicators will also be discussed.	Open in even number academic years. Identical to OIMBB06 and OIMBB19. face-to-face See Course Number OATW121 for English Syllabus
OATW112	Machine Learning and Pattern Recognition	1	2. 0	1, 2	SprAB	Thu1, 2	7A210	Wakabayashi Kei,Yu Haitao	This course aims at enabling students to develop an understanding of the fundamental principles and practical use of machine learning. The course is designed to examine supervised and unsupervised learning methods based on neural networks and Bayesian models for essential techniques in data science such as image recognition, document classification and clustering. The course is made up of a series of lectures - focusing on fundamental principles (linear algebra and probability theory). Hands-on exercises are also provided to understand the practical use of different machine learning methods (e.g., pattern recognition of images and text data). The course also introduces a broad range of practical techniques, e.g., data mining applications and parallel computing methods for large scale data.	Open in even number academic years. Identical to OIMBB20. face-to- face(partially online) See Course Number OATW122 for English Syllabus
OATW113	Media Design	1	2. 0	1, 2	FallAB	Tue5, 6	7A210	Kim Sangtae,Ochiai Yoichi,Fushimi Tatsuki	From the knowledge of art, design and technical expressions in media, students understand the mechanism of information design, and learn techniques of real world oriented interaction and infographics through hardware production and software production. In recent years, the real world oriented interaction has attracted attention from the industry due to the spread of information devices such as smart phones and wearable terminals, and the content creator is required to design the contents for such ubiquitous display and communication tools by applying the concept of infographics. In this course, based on the graphic design method, students cultivate the skill that they can discuss about visual expression, perform an exhibition as an application of their knowledge, and acquire the skills to use in real world such as making visuals related to it and making captions.	Open in even number academic years. Identical to O1MBB07 and O1MBB12. Online(partially face-to-face) See Course Number OATW123 for English Syllabus
OATW114	Visualization	1	2.0	1, 2	FallAB	Tue1, 2		Tokii Maki,Fujisawa Makoto	Visualization is one of the most important technologies for visually representing complex datasets from scientific/medical experiments, physics simulations to everyday human activity, etc. Visualized media via the use of computer graphics techniques could enable the users gain a deeper understanding of the data. This course will discuss the fundamentals and applications of visualization, including scientific visualization technologies for scientific data and information visualization technologies for social data. 3-D user interfaces and augmented reality for operating visualized media will be also covered in this course.	Open in even number academic years. Identical to O1MBBO9 and O1MBC04. Online (Asynchronous) See Course Number OATW124 for English Syllabus

0ATW115	Biological and Life Informatics	1	2. 0	1, 2				A course designed to teach informatic aspects of life. Measurement and modelling, data storage, analysis and representation of biological phenomena are discussed, focusing on genetic information, information processing in living organisms, brain activity and physiological signals. Specifically, bioinformatics methods to treat biological information, systems biology approach to model living organisms, physiological signal processing, auditory system and its modeling, and media art with physiological information are explained. Informatic principles and approaches in modern biology will also be discussed with related biological processes.	
OATW116	Kansei and Cognitive Information	1	2.0	1, 2				of lectures on: (1) Basics and application of computational modelling and knowledge representation of human cognition, in particular, of rational and analytic	Open in odd number academic years. Identical to OIMBBIO. face-to- face(partially online) See Course Number OATW126 for English Syllabus
OATW117	Structured Data	1	2. 0	1, 2	FallAB	Mon1, 2	Suzuki Nobutaka, Nakai Hisashi	This course covers the processing methods for structured data. First, we will provide the basic concepts of regular expression and automaton that are required for processing structured data. Second, we will present the methods for syntactic analysis of structured data. Third, we will present query languages for XML, such as XPath and XQuery. Then we will provide the methods for managing data written in markup languages, e.g., semistructured database. Finally, we will present the basic notion of graph data search and graph schema.	and 01MBB01. Online(Asynchronous)
OATW11A	Information Access	1	2.0	1, 2	FallAB	Sat3, 4	Seki Yohei,Morishima Atsuyuki	Information access technologies to large amount of data is the key in big data era and becomes significant more and more. We will lecture information access technologies in information retrieval, data management and integration, and natural language processing fields with new trends. We will introduce front line topics such as collective intelligence and co-creation intelligence in MWW, crowdsourcing, and information integration in social media. The students will solidify understanding in state of the art technologies, social application, and future direction in this research field.	Teacher Training Course, Interdisciplinary Foundation Courses No duplicated entry with OASO704
0ATW121	Practical Data Science	1	2.0	1, 2				According to recent studies, the demand in society for data scientists with broad experience in data analysis is increasing. The initial units will focus on the relation among data science, basic mathematics and statistics, aiming at the application to computational algebraic statistics. In the middle units, we will focus on hypothesis testing for actual data and the theory of decision-making based on the predictions. In the last units, students will learn methods of analysis on the basis of informetric data. In particular, the sample-size dependency of informetric indicators will also be discussed.	respectively; Special subjects for Media Science Open in odd number academic years.

0ATW122	Machine Learning and Pattern Recognition	1	2.0	1, 2				This course aims at enabling students to develop an understanding of the fundamental principles and practical use of machine learning. The course is designed to examine supervised and unsupervised learning methods based on neural networks and Bayesian models for essential techniques in data science such as image recognition, document classification and clustering. The course is made up of a series of lectures - focusing on fundamental principles (linear algebra and probability theory). Hands-on exercises are also provided to understand the practical use of different machine learning methods (e.g., pattern recognition of images and text data). The course also introduces a broad range of practical techniques, e.g., data mining applications and parallel computing methods for large scale data.	Special subjects for Media Science: Teacher Training Course Open in odd number academic years. Lecture is conducted in English. face-to- face(partially
OATW123	Media Design	1	2. 0	1, 2				From the knowledge of art, design and technical expressions in media, students understand the mechanism of information design, and learn techniques of real world oriented interaction and infographics through hardware production and software production. In recent years, the real world oriented interaction has attracted attention from the industry due to the spread of information devices such as smart phones and wearable terminals, and the content creator is required to design the contents for such ubiquitous display and communication tools by applying the concept of infographics. In this course, based on the graphic design method, students cultivate the skill that they can discuss about visual expression, perform an exhibition as an application of their knowledge, and acquire the skills to use in real world such as making visuals related to it and making captions.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for Media Science Open in odd number academic years. Lecture is conducted in English. Online (partially face-to-face) See Course Number OATW113 for Japanese Syllabus
OATW124	Visualization	1	2.0	1, 2				human activity, etc. Visualized media via the use of computer graphics techniques could enable the users gain a deeper	Classes are offered in Japanese in even- years and in English in odd-years, respectively:Special subjects for media science: Teacher Training Course Open in odd number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW114 for Japanese Syllabus
0ATW125	Biological and Life Informatics	1	2. 0	1, 2	Spr AB	Mon3, 4	7A210	A course designed to teach informatic aspects of life. Measurement and modelling, data storage, analysis and representation of biological phenomena are discussed, focusing on genetic information, information processing in living organisms, brain activity and physiological signals. Specifically, bioinformatics methods to treat biological information, systems biology approach to model living organisms, physiological signal processing, auditory system and its modeling, and media art with physiological information are explained. Informatic principles and approaches in modern biology will also be discussed with related biological processes.	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for media science: Teacher Training Course Open in even number academic years. Lecture is conducted in English. face-to-face See Course Number OATW115 for Japanese Syllabus

OATW126	Kansei and Cognitive Information	1	2. 0	1, 2	Spr AB	Tue5, 6	7A205	Morita Hiromi,Lee Seung Hee,飯野 なみ	of lectures on: (1) Basics and application of computational modelling and knowledge representation of human cognition, in particular, of rational and analytic	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for Media Science Open in even number academic years. Lecture is conducted in English. face-to- face(partially online) See Course Number OATW116 for Japanese Syllabus
0ATW127	Structured Data	1	2.0	1, 2					This course covers the processing methods for structured data. We provide the following two topics. The first topic includes the basic concepts of regular expression and automaton that are required for processing structured data, and the methods for syntactic analysis of structured data. The second topic includes query languages for XML, such as XPath and XQuery, the methods for managing data written in markup languages, e.g., semistructured database, and the basic notion of graph data search and graph schema.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for Media Science: Teacher Training Course Open in odd number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW117 for Japanese Syllabus
0ATW131	Analysis of Knowledge and Information	1	2.0	1, 2					This course introduces the concepts of knowledge and their formation and acquisition methods. The initial units discuss the concept of knowledge. After having seen the definition of knowledge as justified true belief and its criticism (the Gettier problem etc.), we argue about the sharing of knowledge in light of theories of meaning from the viewpoint of relativism and its criticism. The subsequent units introduce three ways of thinking about knowledge formation from the viewpoint of embodied cognition and discuss them in light of recent research trends. The last units introduce methods of knowledge representation and acquisition based on informetric models, focusing on the interrelations between knowledge, information and data.	online). Online(Asynchronous)
0ATW132	Information Practices	1	2.0	1, 2	Spr AB	Mon5, 6	7A204	Yu Haitao,Matsubaya shi Mamiko	considering broader context (e.g., social context of users) than conventional information behaviour researches. In this course, students learn the historical background of information practices	Identical to 01MBA06 and 01MBA07. face-to-face

OATW133	Recommendation Systems	1	2.0	1, 2				Various aspects of recommender systems such as methods, implementation, evaluation and problems will be introduced. More specifically, representative recommendation methods such as user-based collaborative filtering (association rules), content-based filtering (which represents contents of items as various numericals), knowledge- based recommendation (which requires users to show their interests) and hybrid recommendation based on machine learning using various information will be introduced. How to measure appropriateness of recommendation i.e. notion of precision, recall, novelty or serendipity for users will also be shown.	Open in odd number academic years. Identical to 01MBB03. Online (Asynchronous) See Course Number 0ATW143 for English Syllabus
0ATW134	Human Computer Interaction	1	2. 0	1, 2				This course provides lectures on Human- Computer Interaction (HGI). Basics of HGI for realizing natural interaction, and brief overview of design, implementation, and evaluation methodologies for building interactive systems are explained. Technological elements for intelligent systems such as user interface (UI), robotics, computer vision and recognition are in the scope. The course also touches on recent research advancement in social computing for supporting and augmenting human communication and information sharing.	Open in odd number academic years. Identical to O1MBB11 and O1MBC16. face-to-face See Course Number OATW144 for English Syllabus
0ATW135	Communication Behavior	1	2. 0	1, 2				This course discusses interpersonal communication via quantitative survey approach. Students are expected to learn how various media usage influences interpersonal communication and selective behaviors. This course will introduce the history and development of various media, namely: (1) from mass media to social media, and (2) their effects on users' identity formation, (3) language use, (4) perception of communication media and interpersonal relationships especially social support networks. Through this course, students will be able to acquire basic skills to understand existing body of research studies conducted both within and outside of Japan.	01MBA11.
OATW136	Community Analysis	1	2.0	1, 2	FallAB	Fri3, 4	Goto Yoshihiro, Teruya ma Junko	Information and knowledge are produced, activated and communicated in interactions between/among different communities when they come together, part, clash or influence one another. In this course, students will learn the basic theories of community research and review existing literature based on qualitative research of community categories such as ethnicity, locality and language. Furthermore, students will learn how information and knowledge within communities are generated/received/modified based on specific member attributes when interactions occur in community centers, libraries, schools, clinics and local communities.	Open in even number academic years. Identical to OIMBCIO. face-to-face See Course Number OATW146 for English Syllabus
0ATW137	Digital Humanities	1	2. 0	1, 2				Digital Humanities is aimed at obtaining knowledge that could not be obtained by traditional methods by applying digital technology to human literary materials. The course provides lectures on text encoding for the resources of the text, iconography analysis to consider the culture and society of the time created from a drawing, and document analysis to apply natural language processing techniques to historical documents. The course explains a method of mapping descriptions of old maps and old documents to geographic information systems. The course introduces the International Image Interoperability Framework (IIIF) which is the standard for easily distributing image files.	Open in odd number academic years. Identical to OIMBCO2 and OIMBCO3. face-to-face See Course Number OATW147 for English Syllabus

OATW138	Intellectual Property and Information Security	1	2.0	1, 2	Spr AB	Mon1, 2	Sakaguchi Tetsuo, Takara Kouya, Murai Maiko	This course aims at examining various emerging legal issues in the context of the current networked society - by looking into various statutes and court cases concerning information. The course will provide an overview of selective laws on the internet and other related topics in Japan - i.e., including: Copyright Act, Unfair Competition Prevention Act, Acts on the Protection of Personal Information and other related laws, etc. From a viewpoint of information ethics, having a regard to laws is expected in order to protect social norms. This course aims at building a basic understanding on laws regarding information, e.g., how to develop better legal systems and law cases, with the aim to deepen the knowledge from a wide ange of perspectives. This course will also provide technical aspects of information security and intellectual property.	Open in even number academic years. Identical to OIMBAO3 and OIMBAO4. Online (Asynchronous) See Course Number OATW148 for English Syllabus
OATW13A	Analysis of Knowledge and Information	1	2.0	1, 2	Spr AB	Fri7,8		This course introduces the concepts of knowledge and their formation and acquisition methods. The initial units discuss the concept of knowledge. After having seen the definition of knowledge as justified true belief and its criticism (the Gettier problem etc.), we argue about the sharing of knowledge in light of theories of meaning from the viewpoint of relativism and its criticism. The subsequent units introduce three ways of thinking about knowledge formation from the viewpoint of embodied cognition and discuss them in light of recent research trends. The last units introduce methods of knowledge representation and acquisition based on informetric models, focusing on the interrelations between knowledge. information and data.	Course location: Tokyo Campus, : Special subjects for Information Interaction: Teacher Training Course No duplicated entry with 0ATW131 face-to- face (partially online). Online (Asynchronous)
OATW13E	Human Computer Interaction	1	2.0	1, 2	FallB	Intensi ve	Mikawa Masahiko, Inoue Tomoo	This course provides lectures on Human- Computer Interaction (HGI). Basics of HGI for realizing natural interaction, and brief overview of design, implementation, and evaluation methodologies for building interactive systems are explained. Technological elements for intelligent systems such as user interface (UI), robotics, computer vision and recognition are in the scope. The course also touches on recent research advancement in social computing for supporting and augmenting human communication and information sharing.	Course location: Tokyo Campus: Special subjects for Information Interaction: Teacher Training Course No duplicated entry with OATW134 Identical to 01MBE11. 11/30, 12/1, 12/7, 12/8 .12/14, 12/15 face-to-face
OATW13C	Digital Humanities	1	2.0	1, 2	FallAB	Tue7, 8	Uda Norihiko,Waki Toshihito,Takaha shi Yona	Digital Humanities is aimed at obtaining knowledge that could not be obtained by traditional methods by applying digital technology to human literary materials. The course provides lectures on text encoding for the resources of the text, iconography analysis to consider the culture and society of the time created from a drawing, and document analysis to apply natural language processing techniques to historical documents. The course explains a method of mapping descriptions of old maps and old documents to geographic information systems. The course introduces the International Image Interoperability Framework (IIIF) which is the standard for easily distributing image files.	Course location: Tokyo Campus: Special subjects for Information No duplicated entry with OATW137 Identical to 01MBE03. Online (Asynchronous)

OATW		Intellectual Property and Information Security	1	2.0	1, 2	Spr AB	Sat5, 6	Sakaguchi Tetsuo, Takara Kouya, Murai Maiko	This course aims at examining various emerging legal issues in the context of the current networked society - by looking into various statutes and court cases concerning information. The course will provide an overview of selective laws on the internet and other related topics in Japan - i.e., including: Copyright Act, Unfair Competition Prevention Act, Acts on the Protection of Personal Information and other related laws, etc. From a viewpoint of information ethics, having a regard to laws is expected in order to protect social norms. This course aims at building a basic understanding on laws regarding information, e.g., how to develop better legal systems and law cases, with the aim to deepen the knowledge from a wide range of perspectives. This course will also provide technical aspects of information security and intellectual property.	Course location: Tokyo Campus: Special subjects for information interaction: Teacher Training Course No duplicated entry with OATW138 Online (Asynchronous)
ОАТИ	V141	Analysis of Knowledge and Information	1	2.0	1, 2	Spr AB	Fri1, 2	Yokoyama Mikiko, Matsubara Masaki, Yoshikane Fuyuki	Gettier problem etc.), we argue about the	No duplicated entry with OATW13A Open in even number
OATW	V142	Information Practices	1	2.0	1, 2				'Information practices' is a new concept involving human information interaction, and is discussed among various area, from information behaviour research in Library and Information Science to Human Computer Interaction in Computer Science. The concept focused on the understanding of interaction, considering broader context (e.g., social context of users) than conventional information behaviour researches. In this course, students learn the historical background of information practices research, which is originated with the traditional information seeking and retrieval research user model of information search based on log analysis and laboratory experiment, and the methods of modelling and predicting search engine user behaviour, as well as their evaluation.	years and in English in odd-years, respectively: Special subjects for Information Interaction: Teacher Training Course Open in odd number academic years. Lecture is conducted in English. Face-to-face See Course Number
ΟΑΤΝ	¥143	Recommendation Systems	1	2. 0	1, 2	FallAB	Fri1.2	Tsuji Keita,Matsumura Atsushi	Various aspects of recommender systems such as methods, implementation, evaluation and problems will be introduced. More specifically, representative recommendation methods such as user-based collaborative filtering (association rules), content-based filtering (which represents contents of items as various numericals), knowledge- based recommendation (which requires users to show their interests) and hybrid recommendation based on machine learning using various information will be introduced. How to measure appropriateness of recommendation i.e. notion of precision, recall, novelty or serendipity for users will also be shown.	Classes are offered in Japanese in odd- years and in English in even-years, respectively: Special subjects for Information Interaction: Teacher Training Course Open in even number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW133 for Japanese Syllabus

OATW144	Human Computer Interaction	1	2.0	1, 2	FaliAB	Tue3, 4	7A210	Mikawa Masahiko, Inoue Tomoo	This course provides lectures on Human- Computer Interaction (HCI). Basics of HCI for realizing natural interaction, and brief overview of design, implementation, and evaluation methodologies for building interactive systems are explained. Technological elements for intelligent systems such as user interface (UI), robotics, computer vision and recognition are in the scope. The course also touches on recent research advancement in social computing for supporting and augmenting human communication and information sharing.	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for Information Interaction: Teacher Training Course No duplicated entry with OATW13B Open in even number academic years. Lecture is conducted in English. face-to-face See Course Number OATW134 for Japanese Syllabus
OATW145	Communication Behavior	1	2. 0	1, 2	Spr AB	Tue5, 6	7A208	Toshimori Atsushi,Ye Shaoyu	This course discusses interpersonal communication via quantitative survey approach. Students are expected to learn how various media usage influences interpersonal communication and selective behaviors. This course will introduce the history and development of various media, namely: (1) from mass media to social media, and (2) their effects on users' identity formation, (3) language use, (4) perception of communication media and interpersonal relationships especially social support networks. Through this course, students will be able to acquire basic skills to understand existing body of research studies conducted both within and outside of Japan.	Japanese in odd- years, respectively: Special subjects for Information Interaction: Teacher Training Course Open in even number academic years. Lecture is conducted
OATW146	Community Analysis	1	2. 0	1, 2					Information and knowledge are produced, activated and communicated in interactions between/among different communities when they come together, part, clash or influence one another. In this course, students will learn the basic theories of community research and review existing literature based on qualitative research of community categories such as ethnicity, locality and language. Furthermore, students will learn how information and knowledge within communities are generated/received/modified based on specific member attributes when interactions occur in community centers, libraries, schools, clinics and local communities.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for information interaction: Teacher Training Course Open in odd number academic years. Lecture is conducted in English. face-to-face See Course Number OATW136 for Japanese Syllabus
0ATW147	Digital Humanities	1	2.0	1, 2	FallAB	Thu1, 2	7A210	Uda Norihiko,Waki Toshihito	Digital Humanities is aimed at obtaining knowledge that could not be obtained by traditional methods by applying digital technology to human literary materials. The course provides lectures on text encoding for the resources of the text, iconography analysis to consider the culture and society of the time created from a drawing, and document analysis to apply natural language processing techniques to historical documents. The course explains a method of mapping descriptions of old maps and old documents to geographic information systems. The course introduces the International Image Interoperability Framework (IIIF) which is the standard for easily distributing image files.	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for information interaction No duplicated entry with OATW13C Open in even number academic years. Lecture is conducted in English. face-to-face See Course Number OATW137 for Japanese Syllabus

OATW148	Intellectual Property and Information Security	1	2.0	1, 2				This course aims at examining various emerging legal issues in the context of the current networked society - by looking into various statutes and court cases concerning information. The course will provide an overview of selective laws on the internet and other related topics in Japan - i.e., including: Copyright Act, Unfair Competition Prevention Act. Acts on the Protection of Personal Information and other related laws, etc. From a viewpoint of information ethics, having a regard to laws is expected in order to protect social norms. This course aims at building a basic understanding on laws regarding information, e.g., how to develop better legal systems and law cases, with the aim to deepen the knowledge from a wide range of perspectives. This course will also provide technical aspects of information security and intellectual property.	Training Course No duplicated entry with OATW13D Open in odd number academic years. Lecture is conducted in English.
0ATW151	Cultural History of Library and Media	1	2. 0	1, 2	SprAB	Fr i 5. 6	Yoshida Yuko,Murata Koji	This course introduces the history of libraries as the knowledge and information infrastructure and a history of books and other information media from the perspective of learning from history. Firstly the course overview from ancient media such as clay tablet and papyrus to parchment and codex, and Gutenberg printing press. Secondly, the course examines a history of libraries from monastic libraries and scriptoria to modern libraries in the 19th century in mainly Europe and America as well as Japanese libraries and media.	
OATW153	Library Management	1	2.0	1, 2				This course enables students to develop an understanding of the different approaches to effective organizational/operational management, as well as administrations, with special emphasis on public libraries. This course examines various management theories, principles, concepts, techniques in business administration. Challenges and limitations of applying such management theories fpr running the library as a nonprofit organization will also be addressed. In addition, students will also develop a basic understanding of the following: (1) social role, (2) policy, (3) legal system, (4) human resource management, (5) service planning and evaluation, (6) budget acquisition and financing, (7) public relations, (8) public-private partnerships, and (9) collaborations and partnerships with external partners for developing programs catered for early childhood education.	Open in odd number academic years. Identical to 01MEC11. Online (Asynchronous) See Course Number 0ATW163 for English Syllabus
OATW154	Scholarly Communication and Infrastructure	1	2.0	1, 2				In this lecture, students learn the overview of scholarly communication and scholarly publishing system which supports the communication, and understand the current situation and some challenges of scholarly communication. In former part of the lecture, students learn the relationship between research practices and scholarly communication, and the new wave of scholarly communication, and the new wave of scholarly communication (e.g. the change of scholarly journal, open access, open science.) In the latter part of the lecture, students learn scholarly publishing system which supports scholarly publishing system which supports scholarly publishing such as business model of scholarly journals, research support services by academic libraries, and scholarly information network.	Open in odd number academic years. Identical to O1MBC14 and O1MBC15. face-to-face See Course Number OATW164 for English Syllabus

OATW155	Archives	1	2.0	1, 2	FallAB	Mon5, 6	Shirai Tetsuya,Baryshev Eduard,Murata Koji	After the Great East-Japan Earthquake of 2011, archivists of Japan began to engage actively in the salvage and conservation of the historically important documents. Furthermore, as a result of the enforcement of the Public Records and Archives Management Act in 2011, the Japanese government has undertaken the task of organizing and preserving public documents. This course examines the peculiar features of archival science by introducing various examples of archival institutions, archival documents and professional practices of archivists both in Japan and the Western countries, and thereby offers students fundamental notions and information on archival institutions.	Open in even number academic years. Identical to OIMBCO5 and OIMBCI8. Online (Asynchronous) See Course Number OATW165 for English Syllabus
OATW156	Museum and Information Media	1	2.0	1, 2	FallAB	Tue5, 6	Shirai Tetsuya,TERACHI Minako,LEE KANG	Museum is a media. It offers information and resembles to television (Umesao 1987). Since this statement, museum as a media is developing rapidly due to the expansion of the Internet. For both real and virtual museum, knowledge and understandings of information media has been definitely required. This lecture investigates the current activities and the overview of future from various viewpoints in consideration of the importance of video media literacy.	
OATW157	Information Organization	1	2.0	1, 2				In this lecture, students will learn about organizing to utilize various information resources efficiently. They learn about information resource analysis and its metadata description, classification and identification methods, targeting information resources that are mainly provided and shared via a network such as WWW or digital library. This lecture also discusses practical metadata descriptions such as Linked Open Data, schema definitions, and ontologies using RDF Schema, OWL, SKOS, etc. for description. In addition, as methods of record identification method using appropriate identification method using appropriate identification method.	Open in odd number academic years. Identical to 01MBB05 and 01MBC07. face-to- face(partially online) See Course Number OATW167 for English Syllabus
OATW158	Media Education	1	2.0	1, 2				This lecture will comprehensively learn the following topics and provide models and practice related to these topics: school and public libraries in a lifelong-learning society, what learning environments from analog to digital including networks should be, and media usage, application and education in these environments. Specifically, this course will enable students' understanding of the concept of "media literacy," which requires the ability to collect, judge, create and communicate information effectively. It also focuses on the importance of media-based education and maintenance of learning environments, and the current state and future issues and includes discussions regarding further development.	Open in odd number academic years. Identical to OIMBC12 and OIMBC13. Online(Asynchronous) See Course Number OATW168 for English Syllabus
OATW159	Universal Services	1	2.0	1, 2	FallAB	Fri5,6	Donkai Saori, TAKEDA Masaki	This course focuses on universal services for building communities that are inclusive of people of all ages and races. First, the outline of universal services will be reviewed through the history and evolution of universal services. Then, the contemporary issues will be discussed, focusing on services for the elderly in a hyper-aged society. This is followed by a detailed description of services in support of dementia. The discussion will then proceed from the perspective of services for the disabled and cultural diversity. Finally, the aim is to develop the ability to plan and implement universal services in public places such as public libraries to guarantee access to information for people from diverse backgrounds.	Open in even number academic years. Online (Asynchronous) See Course Number OATW169 for English Syllabus

OATW15A	Cultural History of Library and Media	1	2.0	1, 2	Spr AB	Tue7, 8	Yoshida Yuko,Murata Koji	This course introduces the history of libraries as the knowledge and information infrastructure and a history of books and other information media from the perspective of learning from history. Firstly the course overview from ancient media such as clay tablet and papyrus to parchment and codex, and Gutenberg printing press. Secondly, the course examines a history of libraries from monastic libraries and scriptoria to modern libraries in the 19th century in mainly Europe and America as well as Japanese libraries and media.	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Special subjects for Library and Information Science No duplicated entry with OATW151 Online (Asynchronous)
OATW15C	Library Management	1	2.0	1, 2	Spr AB	Sat3, 4	Ikeuchi Atsushi,Ohba Ichiro,Koizumi Masanori	effective organizational/operational management, as well as administrations, with special emphasis on public libraries. This course examines various management theories, principles, concepts, techniques in business administration. Challenges and limitations of applying such management theories fpr running the library as a nonprofit organization will also be	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Special subjects for Library and Information Science No duplicated entry with OATW153 Identical to O1MBE44. Online (Asynchronous)
OATW15D	Scholarly Communication and Infrastructure	1	2.0	1, 2	FallAB	Sat5, 6	Matsubayashi Mamiko,Nishikawa Kai	of scholarly communication and scholarly publishing system which supports the communication, and understand the current situation and some challenges of scholarly communication. In former part of the lecture, students learn the relationship between research practices and scholarly communication, and the new wave of scholarly	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Special subjects for Library and Information Science No duplicated entry with OATW154 Identical to O1MBE02. face-to-face
OATW15E	Archives	1	2.0	1, 2	FallAB	Sat7,8	Shirai Tetsuya, Baryshev Eduard, Murata Koji	After the Great East-Japan Earthquake of 2011, archivists of Japan began to engage actively in the salvage and conservation of the historically important documents. Furthermore, as a result of the enforcement of the Public Records and Archives Management Act in 2011, the Japanese government has undertaken the task of organizing and preserving public documents. This course examines the peculiar features of archival science by introducing various examples of archival institutions, archival documents and professional practices of archivists both in Japan and the Western countries, and thereby offers students fundamental notions and information on archival institutions.	Course location: Tokyo Campus: Special subjects for Library and Information Science No duplicated entry with OATW155 Identical to OINWE32. Online (Asynchronous)
OATW15F	Museum and Information Media	1	2.0	1, 2	FallAB	Mon7, 8	Shirai Tetsuya,TERACHI Minako,LEE KANG,Mizushima Eiji	Museum is a media. It offers information and resembles to television (Umesao 1987). Since this statement, museum as a media is developing rapidly due to the expansion of the Internet. For both real and virtual museum, knowledge and understandings of information media has been definitely required. This lecture investigates the current activities and the overview of future from various viewpoints in consideration of the importance of video media literacy.	

OATW15G	Information Organization	1	2. 0	1, 2	Spr AB	Mon7, 8	Takaku Masao, Kato Makoto, Nagamori Mitsuharu	In this lecture, students will learn about organizing to utilize various information resources efficiently. They learn about information resource analysis and its metadata description, classification and identification methods, targeting information resources that are mainly provided and shared via a network such as WWW or digital library. This lecture also discusses practical metadata descriptions such as Linked Open Data, schema definitions, and ontologies using RDF Schema, OWL, SKOS, etc. for description. In addition, as methods of record identification for electronic information resources, the course explains the identification method using appropriate identification method.	Course location: Tokyo Campus, Special subjects for Library and Information Science:Teacher Training Course No duplicated entry with OATW157 Online(Synchronous)
OATW15H	Media Education	1	2. 0	1, 2	FallAB	Fri7,8	Suzuki Kanae,Ono Haruki,Tsuji Keita	This lecture will comprehensively learn the following topics and provide models and practice related to these topics: school and public libraries in a lifelong-learning society, what learning environments from analog to digital including networks should be, and media usage, application and education in these environments. Specifically, this course will enable students' understanding of the concept of "media literacy," which requires the ability to collect, judge, create and communicate information effectively. It also focuses on the importance of media-based education and maintenance of learning environments, and the current state and future issues and includes discussions regarding further development.	Course location: Tokyo Campus: Special subjects for Library and Information Science No duplicated entry with OATW158 Identical to O1MBE21. Online (Asynchronous)
OATW15J	Universal Services	1	2.0	1, 2	FallAB	Thu7, 8	Donkai Saori, TAKEDA Masaki	This course focuses on universal services for building communities that are inclusive of people of all ages and races. First, the outline of universal services will be reviewed through the history and evolution of universal services. Then, the contemporary issues will be discussed, focusing on services for the elderly in a hyper-aged society. This is followed by a detailed description of services in support of dementia. The discussion will then proceed from the perspective of services for the disabled and cultural diversity. Finally, the aim is to develop the ability to plan and implement universal services in guarantee access to information for people from diverse backgrounds.	Course location: Tokyo Campus; In every year, classes are offered in Japanese: Special subjects for Library and Information Science No duplicated entry with OATW159 Online (Asynchronous)
OATW161	Cultural History of Library and Media	1	2.0	1, 2				This course introduces the history of libraries as the knowledge and information infrastructure and a history of books and other information media from the perspective of learning from history. Firstly the course overview from ancient media such as clay tablet and papyrus to parchment and codex, and Gutenberg printing press. Secondly, the course examines a history of libraries from monastic libraries and scriptoria to modern libraries in the 19th century in mainly Europe and America as well as Japanese libraries and media.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15A Open in odd number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW151 for Japanese Syllabus

OATW163	Library Management	1	2.0	1, 2	Spr AB	Fr i 3. 4		Ikeuchi Atsushi,Ohba Ichiro,Koizumi Masanori	This course enables students to develop an understanding of the different approaches to effective organizational/operational management, as well as administrations, with special emphasis on public libraries. This course examines various management theories, principles, concepts, techniques in business administration. Challenges and limitations of applying such management theories fpr running the library as a nonprofit organization will also be addressed. In addition, students will also develop a basic understanding of the following: (1) social role, (2) policy, (3) legal system, (4) human resource management, (5) service planning and evaluation, (6) budget acquisition and financing, (7) public relations, (8) public-private partnerships, and (9) collaborations and partnerships with external partners for developing programs catered for early childhood education.	years and in Japanese in odd- years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15C Open in even number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW153 for Japanese Syllabus
OATW164	Scholarly Communication and Infrastructure	1	2. 0	1, 2	FallAB	Mon3, 4	7 A 210	Matsubayashi Mamiko, Nishikawa Kai	In this lecture, students learn the overview of scholarly communication and scholarly publishing system which supports the communication, and understand the current situation and some challenges of scholarly communication. In former part of the lecture, students learn the relationship between research practices and scholarly communication, and the new wave of scholarly communication, and the new wave of scholarly communication (e.g. the change of scholarly journal, open access, open science.) In the latter part of the lecture, students learn scholarly publishing system which supports scholarly communication, such as business model of scholarly journals, research scholarly information network.	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15D Open in even number academic years. Lecture is conducted in English. face-to-face See Course Number OATW154 for Japanese Syllabus
OATW165	Archives	1	2. 0	1, 2					After the Great East-Japan Earthquake of 2011, archivists of Japan began to engage actively in the salvage and conservation of the historically important documents. Furthermore, as a result of the enforcement of the Public Records and Archives Management Act in 2011, the Japanese government has undertaken the task of organizing and preserving public documents. This course examines the peculiar features of archival science by introducing various examples of archival institutions, archival documents and professional practices of archivists both in Japan and the Western countries, and thereby offers students fundamental notions and information on archival institutions.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15E Open in odd number academic years. Lecture is conducted in English. Online (Asynchronous) See Course Number OATW155 for Japanese Syllabus
OATW166	Museum and Information Media	1	2.0	1, 2					Museum is a media. It offers information and resembles to television (Umesao 1987). Since this statement, museum as a media is developing rapidly due to the expansion of the Internet. For both real and virtual museum, knowledge and understandings of information media has been definitely required. This lecture investigates the current activities and the overview of future from various viewpoints in consideration of the importance of video media literacy.	

OATW167	Information Organization	1	2.0	1, 2	Spr AB	Thu5, 6	/A210	Takaku Masao, Kato Makoto, Nagamori Mitsuharu	In this lecture, students will learn about organizing to utilize various information resources efficiently. They learn about information resource analysis and its metadata description, classification and identification methods, targeting information resources that are mainly provided and shared via a network such as WWW or digital library. This lecture also discusses practical metadata descriptions such as Linked Open Data, schema definitions, and ontologies using RDF Schema, OWL, SKOS, etc. for description. In addition, as methods of record identification method using appropriate identification method.	Classes are offered in English in even- years and in Japanese in odd- years, respectively: Special subjects for Library and Information Science: Teacher Training Course No duplicated entry with OATW15G Open in even number academic years. Lecture is conducted in English. face-to- face(partially online) See Course Number OATW157 for Japanese Syllabus
OATW168	Media Education	1	2. 0	1, 2	FallAB	Tue1, 2		Suzuki Kanae,Ono Haruki,Tsuji Keita	This lecture will comprehensively learn the following topics and provide models and practice related to these topics: school and public libraries in a lifelong-learning society, what learning environments from analog to digital including networks should be, and media usage, application and education in these environments. Specifically, this course will enable students' understanding of the concept of "media literacy," which requires the ability to collect, judge, create and communicate information effectively. It also focuses on the importance of media-based education and maintenance of learning environments, and the current state and future issues and includes discussions regarding further development.	Japanese in odd- years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15H Open in even number
OATW169	Universal Services	1	2. 0	1, 2					This course focuses on universal services for building communities that are inclusive of people of all ages and races. First, the outline of universal services will be reviewed through the history and evolution of universal services. Then, the contemporary issues will be discussed, focusing on services for the elderly in a hyper-aged society. This is followed by a detailed description of services in support of dementia. The discussion will then proceed from the perspective of services for the disabled and cultural diversity. Finally, the aim is to develop the ability to plan and implement universal services in public places such as public libraries to guarantee access to information for people from diverse backgrounds.	Classes are offered in Japanese in even- years and in English in odd-years, respectively: Special subjects for Library and Information Science No duplicated entry with OATW15J Open in odd number academic years. Lecture is conducted in English. Not open in academic year. Online (Asynchronous) See Course Number OATW159 for Japanese Syllabus
OATW211	Research Foundation	2	2.0	1	SprC	Mon/Thu 5, 6		Moritsugu Shuichi, Ochiai Yoichi, Suzuki Nobutaka, Nakai Hisashi, Kim Sangtae	Firstly, each research area and its features for theme setting, experiment methods, and publication methods of findings are presented. Secondly, students learn five themes in order, (1) documentation, (2) research ethics, (3) brainstorming, (4) cooperative work, (5) presentation, aiming at completing a master's thesis. Students learn the basic knowledge and skills to become a researcher by excercising several effective tools for conducting research.	In every year, classes are offered in Japanese: Methodological Foundation Courses No duplicated entry with OATW21A Identical to O1WBA53. Online (Asynchronous) Online (Synchronous)
OATW212	Research Foundation in Informatics	2	2. 0	1	FallC	Mon/Thu 1, 2	Union Lectur e Hall	Morishima Atsuyuki,Lee Seung Hee,Kim Sangtae,Kim SunKyoung	This course is the introduction to academic research and publishing in informatics. The goal is to acquire basic knowledge and skills required for researchers. It showcases some of the research projects in a variety of domains, and addresses some of the important topics in research activites, such as documentation, research ethics, brainstorming, collaboration, and presentation. We also show some of the useful tools for researchers.	In every year, classes are taught in English Lecture is conducted in English. face-to-face Hybrid

OATW213	Literature Survey	2	2. 0	1	SprC	Tue/Fri 1, 2		Morita Hiromi,Lee Seung Hee,Ohba Ichiro,Seki Yohei,Murai Maiko	There has been a growing importance of efficiently and broadly finding and understanding relevant literature in a domain that is not your core area, due to the increase of interdisciplinary nature in research topics. Therefore, in this course, students will acquire literature survey skills in some of the areas in Informatics, and will learn major information sources and typical structure of academic articles, and finally, identify conferences and journals where students could aim to submit their work.	In every year, classes are offered in Japanese; Methodological Foundation Courses No duplicated entry with OATW21B Identical to 01MBA51. Online (Asynchronous)
OATW214	Literature Survey	2	2. 0	1	FallC	Mon/Thu 5,6		Maeshiro Tetsuya,Kim SunKyoung,Sakagu chi Tetsuo,Baryshev Eduard,Matsubara Masaki	There has been a growing importance of efficiently and broadly finding and understanding relevant literature in a domain that is not your core area, due to an increase of interdisciplinary nature in research topics. Therefore, in this course, students will acquire literature survey skills in some of the areas in Informatics, and will learn major information sources and typical structure of academic articles, and finally, identify conferences and journals where students could aim to submit their work.	Foundation Courses Identical to 01MBD52. Online(Asynchronous)
0ATW215	Survey and Data Analysis	2	2.0	1	FallC	Mon/Thu 3, 4	Union Lectur e Hall	Goto Yoshihiro,Ikeuch i Atsushi,Tokii Maki,Ye Shaoyu	This course covers qualitative research, quantitative research, and data analysis. With lectures and group work, students are expected to learn how to plan and implement a survey and conduct data analysis. In addition to traditional data analysis methods, newly developed statistical methods will be presented, which will help understand characteristics of data from different view points.	In every year, classes are offered in Japanese: Methodological Foundation Courses No duplicated entry with 0ATW21C Identical to 01MBB51 and 01MBC51. Online(partially face-to-face)
OATW216	Survey and Data Analysis	2	2. 0	1	SprC	Mon/Thu 3, 4	Lectur	Yu Haitao,Kim SunKyoung,Teruya ma Junko,Wakabayash i Kei	This course covers qualitative research, quantitative survey, and data analysis using a computer. With lectures and group work, students are expected to learn how to plan and implement a survey and conduct data analysis. In addition to traditional data analysis methods, newly developed statistical methods will be presented, which will help understand characteristics of data from different view points.	in English: Methodological Foundation Courses Identical to 01MBD51.
OATW217	Content Production and Development	2	2. 0	1, 2	Spr AB	Tue3, 4	7A210	Suzuki Kanae,Oshio Naohiro	研究やビジネスのプロモーション、来場来館が困 難な利用者に対するオンライン・プレゼンテー ションなど、映像による情報発信の重要性が高 まっている。本授業では、オンラインで提供する デジタルコンテンツを自ら制作するための知識と スキルを習得する。各自約1作品ずつ映像を制作 することを通じて全価・撮影・編集というコンテ ンツ制作の全工程に関する知識とスキルを学習す る。映像を活用した新しいサービスやビジネスを 創造する方法論について学習する。	践指導科目 face-to- face(partially
0ATW218	Records and Information Management	2	2.0	1, 2	FallC	Mon/Thu 7, 8		Shirai Tetsuya,Asai Ryosuke,Shirakaw a Emi	本科目は実践指導科目のひとつとして位置づけら れる演習科目である。本演習では、日本の公文書 館施設における記録情報(公文書や歴史資料及び それらにかかわる情報)の管理や公文書館施設の 運営方法をめぐって、担当教員が出した課題に対 して受講者が解決方法を提案し、それらの検討を 通じて公文書館の専門職員であるアーキビストと しての知見や資質を高めることを目的とする。	毎年, 日本語で開講;実 践指導科目
OATW21A	Research Foundation	2	2.0	1	SprC	Tue/Fri 7,8		Moritsugu Shuichi, Ochiai Yoichi, Suzuki Nobutaka, Nakai Hisashi, Kim Sangtae	Firstly, each research area and its features for theme setting, experiment methods, and publication methods of findings are presented. Secondly, students learn five themes in order, (1) documentation, (2) research ethics, (3) brainstorming, (4) cooperative work, (5) presentation, aiming at completing a master's thesis. Students learn the basic knowledge and skills to become a researcher by excercising several effective tools for conducting research.	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Methodological Foundation Courses No duplicated entry with OATW211 Identical to O1MBE52. Online (Asynchronous) Online (Synchronous)

OATW21B	Literature Survey	2	2.0	1	SprC	Mon/Thu 7,8	e u d t Hiromi,Lee Seung Hee,Ohba s Ichiro,Seki a Yohei,Murai t Maiko w	There has been a growing importance of efficiently and broadly finding and understanding relevant literature in a domain that is not your core area, due to the increase of interdisciplinary nature in research topics. Therefore, in this course, students will acquire literature survey skills in some of the areas in Informatics, and will learn major information sources and typical structure of academic articles, and finally, identify conferences and journals where students could aim to submit their work.	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Methodological Foundation Courses No duplicated entry with OATW213 Identical to OINMEES3. Online (Asynchronous)
OATW21C	Survey and Data Analysis	2	2. 0	1, 2	FallC	Tue/Fri 7, 8	q W e a Goto Yoshihiro.Ikeuch w i Atsushi,Tokii u	This course covers qualitative research, quantitative research, and data analysis. With lectures and group work, students are expected to learn how to plan and implement a survey and conduct data analysis. In addition to traditional data analysis methods, newly developed statistical methods will be presented, which will help understand characteristics of data from different view points.	Course location: Tokyo Campus: In every year, classes are offered in Japanese: Methodological Foundation Courses No duplicated entry with OATW215 Identical to 01MBE13. Online (partially face-to-face)
OATW231	Research Design	2	2. 0	1			r p a d t t s c v v v		In every year, classes are offered in Japanese. If there are English- speaking students in the class, we will correspond to them individually. : Practical Seminar Courses Not open in academic year.
OATW23A	Job Design	2	2. 0	1	SprAB	Sat7, 8	c d Takaku Masao, Nagamori Nitaubaay Yakawa ii	Develop a business improvement proposal that contributes to systematization, business development, and business improvement of the work based on experiences of their own specialized work. After presenting the interim proposal, improve the proposal based on advices from the lecturers.	Tokyo Campus: In every year, classes are offered in Japanese: Practical
OATW251	Special Seminar in Informatics a	2	2.0	2	SprABC	by appoint ment	Uda f Norihiko,Faculty (of the Master's Program in u Informatics (Students will receive advanced dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others
0ATW252	Special Seminar in Informatics b	2	2.0	2	FallABC	by appoint ment	Uda s Norihiko,Faculty (of the Master's Program in Informatics (Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others
0ATW253	Special Seminar in Informatics A	2	1.0	1	SprABC	by appoint ment	Uda s Norihiko,Faculty (of the Master's Program in u Informatics (Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others

0ATW254	Special Seminar in Informatics B	2	1.0	1	FallABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others
0ATW255	Special Seminar in Informatics C	2	1.0	2	SprABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others
OATW256	Special Seminar in Informatics D	2	1.0	2	FallABC	by appoint ment		Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Others
0ATW257	Special Seminar in Informatics E	2	2.0	1	Sum Vac	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses. Only those who plan to complete early can take this course. Applicants need to apply for the Graduate Academic Affairs Section. Others
OATW258	Special Seminar in Informatics F	2	2.0	1	Spr Vac	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data	Research Seminar Courses. Only those who plan to complete early can take this course. Applicants need to apply for the Graduate Academic Affairs Section. Others
OATW259	Special Seminar in Informatics a	2	2.0	2	FallABC	by appoint ment		Students will receive advanced dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others

0ATW260	Special Seminar in Informatics b	2	2. 0	2	Spr ABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others
OATW261	Special Seminar in Informatics A	2	1.0	1	FallABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others
0ATW262	Special Seminar in Informatics B	2	1.0	1	Spr ABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others
OATW263	Special Seminar in Informatics C	2	1.0	2	FallABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others
OATW264	Special Seminar in Informatics D	2	1.0	2	SprABC	by appoint ment	Uda Norihiko,Faculty of the Master's Program in Informatics	Students will receive dissertation guidance by academic advisors on the following research topics in the fields of media science, information interaction, and library and information science, to complete a master's thesis. (1) Theory and application of data utilization considering the nature of media (2) Theory and application on information use focusing on communication (3) Theory and application on the management of knowledge resources as social infrastructure	Research Seminar Courses Course registration is done by Academic Affairs. Others
OATW271	Global Research Seminar Ia	2	1.0	1	Spr ABC	by appoint ment	Mikawa Masahiko, Academi c advisors for the Master's	The purpose is of this course is to comprehensively acquire skills for presenting your work at international conferences. Students prepare presentation materials and have rehearsals for presentations. After that students make presentations, and broaden their research scopes. After conferences students make a self-assessment by looking back on the presentation and make reports on other presentations they found it interesting. This class is offered for first year students.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to twice during the two years of standard enrollment periods: (2) Research Seminar Courses (Will not be counted as credits in completion requirements) Identical to OIMB156. Others

0ATW272	Global Research Seminar Ib	2	1.0	1	FallABC	by appoint ment	Mikawa Masahiko, Academi c advisors for the Master's Program in Informatics	The purpose is of this course is to comprehensively acquire skills for presenting your work at international conferences. Students prepare presentation materials and have rehearsals for presentations. After that students make presentations at international conferences and participate related research presentations, and broaden their research scopes. After conferences students make a self-assessment by looking back on the presentation and make reports on other presentations is offered for first year students.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to twice during the two years of standard enrollment periods: (2) Research Seminar Courses (Will not be counted as credits in completion requirements) Identical to 01MB157. Others
0ATW273	Global Research Seminar IIa	2	1.0	2	SprABC	by appoint ment	Mikawa Masahiko, Academi c advisors for the Master's Program in Informatics	The purpose is of this course is to comprehensively acquire skills for presenting your work at international conferences. Students prepare presentation materials and have rehearsals for presentations. After that students make presentations at international conferences and participate related research presentations, and broaden their research scopes. After conferences students make a self-assessment by looking back on the presentation and make reports on other presentations they found it interesting. This class is offered for second year students.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to twice during the two years of standard enrollment periods: (2) Research Seminar Courses (Will not be counted as credits in completion requirements) Identical to 01ME158. Others
0ATW274	Global Research Seminar Ilb	2	1.0	2	FallABC	by appoint ment	Mikawa Masahiko, Academi c advisors for the Master's Program in Informatics	The purpose is of this course is to comprehensively acquire skills for presenting your work at international conferences. Students prepare presentation materials and have rehearsals for presentations. After that students make presentations at international conferences and participate related research presentations, and broaden their research scopes. After conferences students make a self-assessment by looking back on the presentation and make reports on other presentations they found it interesting. This class is offered for second year students.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to twice during the two years of standard enrollment periods: (2) Research Seminar Courses (Will not be counted as credits in completion requirements) Identical to 01MB159. Others