

2022 Doctoral Program in Informatics

Course Number	Course Name	Instru- ctional Type	Credit s	stand- ard regist- ration year	Term	Meeting Days, Per- iod etc.	Classro- om	Instructor	Course Overview	Remarks
OBTW211	Informatics Seminar a1	2	1.0	1, 2	FallABC	by request		Yoshida Yuko, Suzuki Nobutaka, Teruyama Junko, Main academic advisors and secondary academic advisors of Doctoral Program in Informatics	In order to develop human resources who can solve various problems in the information society by the interdisciplinary approach of humanities and sciences, main academic advisors and secondary academic advisors of the Degree Program in Informatics provide research guidance based on the specialized knowledge of the individual disciplines of informatics in an interactive form to students of the Doctoral Program in Informatics. Students have opportunities to get advice on research for their doctoral dissertation beyond the laboratory by presenting the progress of research in front of multiple faculty members. Informatics Seminar a will be offered in the Fall Module.	In every year, classes are taught in Japanese and English: Research Seminar Courses Hybrid or Others 1st Online Asynchronous, 2nd-5th Online Synchronous
OBTW212	Informatics Seminar a2	2	1.0	1, 2	FallABC	by request		Yoshida Yuko, Suzuki Nobutaka, Teruyama Junko, Main academic advisors and secondary academic advisors of Doctoral Program in Informatics	In order to develop human resources who can solve various problems in the information society by the interdisciplinary approach of humanities and sciences, main academic advisors and secondary academic advisors of the Degree Program in Informatics provide research guidance based on the specialized knowledge of the individual disciplines of informatics in an interactive form to students of the Doctoral Program in Informatics. Students have opportunities to get advice on research for their doctoral dissertation beyond the laboratory by presenting the progress of research in front of multiple faculty members. Informatics Seminar a will be offered in the Fall Module.	In every year, classes are taught in Japanese and English: Research Seminar Courses Hybrid or Others 1st Online Asynchronous, 2nd-5th Online Synchronous
OBTW213	Informatics Seminar b1	2	1.0	1, 2	SprABC	by request		Yoshida Yuko, Suzuki Nobutaka, Teruyama Junko, Main academic advisors and secondary academic advisors of Doctoral Program in Informatics	In order to develop human resources who can solve various problems in the information society by the interdisciplinary approach of humanities and sciences, main academic advisors and secondary academic advisors of the Degree Program in Informatics provide research guidance based on the specialized knowledge of the individual disciplines of informatics in an interactive form to students of the Doctoral Program in Informatics. Students have opportunities to get advice on research for their doctoral dissertation beyond the laboratory by presenting the progress of research in front of multiple faculty members. Informatics Seminar b will be offered in the Spring Module.	In every year, classes are taught in Japanese and English: Research Seminar Courses Hybrid or Others 1st Online Asynchronous, 2nd-5th Online Synchronous
OBTW214	Informatics Seminar b2	2	1.0	1, 2	SprABC	by request		Yoshida Yuko, Suzuki Nobutaka, Teruyama Junko, Main academic advisors and secondary academic advisors of Doctoral Program in Informatics	In order to develop human resources who can solve various problems in the information society by the interdisciplinary approach of humanities and sciences, main academic advisors and secondary academic advisors of the Degree Program in Informatics provide research guidance based on the specialized knowledge of the individual disciplines of informatics in an interactive form to students of the Doctoral Program in Informatics. Students have opportunities to get advice on research for their doctoral dissertation beyond the laboratory by presenting the progress of research in front of multiple faculty members. Informatics Seminar b will be offered in the Spring Module.	In every year, classes are taught in Japanese and English: Research Seminar Courses Hybrid or Others 1st Online Asynchronous, 2nd-5th Online Synchronous

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OBTW231	Research Internship	2	2.0	2	SprABC	by appoint- ment		Donkai Saori, Koizumi Masanori, Takaku Masao, Matsumura Atsushi	Engage in research activities in organizations other than the degree program to which you belong, such as international research institutes, national laboratories, corporate research laboratories, and university laboratories. Research themes follow the instructions of the recipient. In addition to gaining the opportunity to participate in advanced and cutting-edge research, by experiencing collaborative research, you will learn that there are various styles of discussion among researchers, how to proceed with research and how to summarize results and contribute to research. In addition to applying for a research institution, this course allows you to negotiate the institution regarding a research intern acceptance.	Practical Seminar Courses Online (Synchronous)
OBTW232	Research Instruction	2	2.0	2	FallABC	by appoint- ment		Ikeuchi Atsushi, Fujisawa Makoto, Wakabayas hi Kei	This course is designed to provide students with guidance for their graduation research under the supervision of their academic advisor, assuming that they will become university faculty members in the future.  In the first half of the lecture, students will learn about the various styles of research guidance and understand the flow and main points of graduate research guidance.  In the latter half of the seminar, students will be involved in the presentation and writing of their thesis, and acquire actual research guidance skills.	In every year, classes are taught in Japanese and English: Practical Seminar Courses Hybrid or Others 1st-2nd Online Asynchronous, 3rd Online Synchronous (zoom), 4th Online Asynchronous, 5th Online Synchronous (zoom), 6th Online Asynchronous, 7th Online Synchronous (zoom), 8th Online Asynchronous, 9th - 10th Online Synchronous (zoom)
OBTW233	Project Based Learning	2	2.0	1	SprABC	by appoint- ment		Joho Hideo, Toshimori Atsushi, Hasegawa Hidehiko, Maeshir o Tetsuya	This course exercises project-based learning for those who seek a professional career. Problem formulation and setting are primary performed by students, and the research project is managed by a PDCA cycle. The course aims to navigate students to self manage a research project, adjust the schedule based on the progress, and make a level of contribution. Students report to instructors time to time and receive feedback.	Practical Seminar Courses Hybrid or Others 1st, 5th, 10th Online Synchronous, 2nd-4th, 6th-9th Online Asynchronous
OBTW251	Synthetic Seminar on Informatics Ia	2	1.0	1	SprABC	by appoint- ment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuk i Toyoaki, Goto Yoshihiro, Morits ugu Shuichi, Shirai Tetsuya, Toshimor i Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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 Hybrid or Others In the first class, each supervisor will explain how to implement the course.

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OBTW252	Synthetic Seminar on Informatics Ib	2	1.0	1	Fall/ABC	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Suzuki Kanae, Suzuki Nobutaka, Uda Norihiko	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 doctoral 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 Hybrid or Others In the first class, each supervisor will explain how to implement the course.
OBTW253	Synthetic Seminar on Informatics Ila	2	1.0	3	Spr/ABC	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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 Hybrid or Others In the first class, each supervisor will explain how to implement the course.
OBTW254	Synthetic Seminar on Informatics Iib	2	1.0	3	Fall/ABC	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Suzuki Kanae, Suzuki Nobutaka, Uda Norihiko	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 doctoral 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 Hybrid or Others In the first class, each supervisor will explain how to implement the course.

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OBTW255	Synthetic Seminar on Informatics Ia	2	1.0	1	Sum Vac	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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.
OBTW256	Synthetic Seminar on Informatics Ib	2	1.0	1	Spr Vac	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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.
OBTW257	Synthetic Seminar on Informatics IIa	2	1.0	3	Sum Vac	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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.

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OBTW258	Synthetic Seminar on Informatics IIb	2	1.0	3	Spr Vac	by appointment		Satoh Tetsuji, Itsumura Hiroshi, Hasegawa Hidehiko, Watanuki Toyoaki, Goto Yoshihiro, Moritsugu Shuichi, Shirai Tetsuya, Toshimori Atsushi, Yoshida Yuko, Donkai Saori, Inoue Tomoo, Yoshikane Fuyuki, Morishima Atsuyuki, Tsuji Yasuaki, Uda Norihiko, Suzuki Kanae, Suzuki Nobutaka	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 doctoral 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.
OBTW271	Global Research Seminar IIIa	2	1.0	1	SprABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements: Research Seminar Courses
OBTW272	Global Research Seminar IIIb	2	1.0	1	FallABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor: (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements: Research Seminar Courses

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OBTW273	Global Research Seminar IVa	2	1.0	2	SprABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor; (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements; Research Seminar Courses
OBTW274	Global Research Seminar IVb	2	1.0	2	FallABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor; (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements; Research Seminar Courses
OBTW275	Global Research Seminar Va	2	1.0	3	SprABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor; (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements; Research Seminar Courses
OBTW276	Global Research Seminar Vb	2	1.0	3	FallABC	by appointment		Mikawa Masahiko, Academic advisors for the Doctoral 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.	Students will be designated by the main course instructor; (1) Priority applications to "University of Tsukuba Study Abroad Support Program" are available up to three times during the three years of standard enrollment periods. (2) Will not be counted as credits in completion requirements; Research Seminar Courses