

授業科目名(英文名) / Course title	サステナビリティ先端研究				
担当教員(所属) / Instructor	張 勁(理学部生物圏環境科学科)				
授業科目区分 / Category	専門教育科目 グローバルSDGs専門科目				
地域課題解決型人材育成プログラム科目 / COC+Course	-	授業種別 / Type of class	演習科目		
開講学期曜限 / Period	2022年度 / Academic Year 第4ターム / Term 4 他	対象所属 / Eligible Faculty	持続可能社会創成学環(修士課程) グローバルSDGsプログラム / Graduate School of Sustainability Studies Graduate Program in Global Sustainability Science		
時間割コード / Registration Code	D43061	対象学年 / Eligible grade	1年 ,2年	単位数 / Credits	2単位
ナンバリングコード / Numbering Code					
連絡先(研究室、電話番号、電子メールなど) / Contact					
オフィスアワー(自由質問時間) / Office hours					
Moodleコース統合時間割コード / Moodle course join Registration Code					
Moodleコース登録教員名 / Moodle course registered Instructor					
MoodleコースURL / Moodle course URL	https://lms.u-toyama.ac.jp/course/view.php?idnumber=2022_D43061				
各種教育プログラム1 / Various Educational programs1					
各種教育プログラム2 / Various Educational programs2					
各種教育プログラム3 / Various Educational programs3					
各種教育プログラム4 / Various Educational programs4					
各種教育プログラム5 / Various Educational programs5					
リアルタイム・アドバイス / Real-time advice	更新日				
授業のねらいとカリキュラム上の位置付け(一般学修目標) / Course Objectives	教育目標 / Educational Goals				
<p>Based on the initial research plan, students will conduct research to complete their master's thesis. Students will regularly report the progress and results of their research to their primary and associate supervisors.</p> <p>In principle, research guidance by supervisors is in the form of exercises (group or individual), but this guidance may take various forms and use appropriate content as necessary.</p> <p>Through research guidance, students will further refine their knowledge and skills in their respective fields of specialization, as well as develop their presentation skills, communication skills, and problem-setting and -solving abilities.</p>					
達成目標 / Course Goals					
<p>This course aims to enable students to</p> <p>(1) Acquire knowledge in their area of specialization and carry out research based on a research plan in consultation with supervisors.</p> <p>(2) Express the contents of their research logically in both Japanese and English.</p> <p>(3) Improve their logical writing skills, presentation skills, and communication skills through presentations at academic conferences in Japan and abroad.</p> <p>(4) Confirm the validity of their initial research plan, plan countermeasures based on the evaluation results of the mid-term presentation, and carry out research toward completion of the master's thesis.</p>					
授業計画(授業の形式、スケジュール等) / Class schedule					

<p>Session 1: Research guidance in the form of practice Session 2: Research guidance in the form of practice Session 3: Research guidance in the form of practice Session 4: Research guidance in the form of practice Session 5: Research guidance in the form of practice Session 6: Research guidance in the form of practice Session 7: Research guidance in the form of practice Session 8: Research guidance in the form of practice and summary</p> <p>In research guidance sessions, students report on the progress of their research, research contents, and future plans with a view to presenting their work at academic conferences. The supervisor provides appropriate advice at each meeting. In addition, the supervisor provides timely recommendations of reference literature and experimental/survey methods related to the research project and assists the student in understanding the technical aspects of the project, including data analysis and interpretation, from multiple perspectives.</p>	
授業時間外学修（事前・事後学修） / Independent Study Outside of Class	
Pre-course study: Preparation based on the collected information and acquired data (5 hours or more) Post-course study: Improvement based on advice and comments (5 hours or more)	
キーワード / Keywords	
履修上の注意 / Notices	The schedule will be set in consultation with the supervisors in charge (primary or associate supervisor). Please make prior arrangements with the supervisor before enrolling. Students are expected to prepare their own supplementary materials in both Japanese and English.
教科書 / Required Text	
参考書 / Required Materials	
教科書・参考書に関するその他通信欄	Use of electronic journals and government statistics related to the assignment as teaching materials.
成績評価の方法 / Evaluation	Students will be graded on their participation in the course (20%), the content of their assigned report (30%), and the content of their presentation (50%).
関連科目 / Related course	
リンク先URL / URL of syllabus or other information	
備考 / Notes	

授業追加情報 / Course add information

使用言語 / Language	Japanese and English
アクティブ・ラーニングの実施 / Active learning	実施あり
アクティブラーニングの実施内容 / Contents of Active learning	We will foster scientific and logical thinking and information editing skills through active discussions in an interactive manner.
実務経験教員科目 / Work Experience teacher's subjects	
データサイエンス科目 / Data Science subjects	
他学部・他研究科等学生の履修可否 /	Not available