

## 2026 年度シラバス

科目分類/Subject Categories			
学部等/Faculty	/大学院工芸科学研究科（博士後期課程）： /Graduate School of Science and Technology (Doctoral Programs)	今年度開講/Availability	/有 : /Available
学域等/Field	/<その他> : /<Other>	年次/Year	/1～3年次 : /1st through 3rd Year
課程等/Program	/専攻共通科目 : /Program-wide Subjects	学期/Semester	/秋学期 : /Fall term
分類/Category	/授業科目 : /Courses	曜日時限/Day & Period	/集中 : /Intensive

科目情報/Course Information				
時間割番号 /Timetable Number	84119902			
科目番号 /Course Number	84160012			
単位数/Credits	2			
授業形態 /Course Type	講義 : Lecture			
クラス/Class				
授業科目名 /Course Title	プロジェクト・マネジメント特論 : Project Management , Advanced			
担当教員名 / Instructor(s)	/国際センター長/(伊藤 衡) : /Director, International Center/ITO Ko			
その他/Other	インターンシップ実施 科目 /Internship	国際科学技術コース提供 科目 /IGP	PBL 実施科目 /Project Based Learning	DX 活用科目 /ICT Usage in Learning
			○	○
	実務経験のある教員による 科目 /Practical Teacher	○	講師にプロジェクトマネジメントの専門家を迎えて 講義を行う	
科目ナンバリング /Numbering Code				

授業の目的・概要 /Objectives and Outline of the Course	
日	
英	<p>A project is an activity which has goal and deadline. For example, building a bridge, developing a car, holding a music festival are all examples of projects. Such activities have been going on throughout human history, including the construction of the pyramids and the Great Wall of China. However, about half a century ago, they started to be called projects, and its framework were systematically organized, then it became widely recognized around the world.</p> <p>What do you think of when you hear the term project management? You may think of objectives, deliverables, estimation, role assignment, schedules, and risks? Of course, these are important elements of project management, but its essence is to turn your ideas into reality. Project management is a life skill that is necessary to realize values in local and international society, regardless of one's specialty.</p> <p>Projects come with various problems. Stakeholders may not agree with your ideas. You may not have the necessary funds or resources. Unexpected things happen one after another. There is no single way to solve them. What you need is experience, learning, strong will, the help of others, and flexibility that is not bound by conventional way of doing.</p> <p>This class doesn't aim to teach a new method called Project Management, but rather to help you develop metacognitive skills in the problem-solving and decision-making processes that we normally perform unconsciously, using PMBOK, the international de-facto standard for project management frameworks.</p> <ol style="list-style-type: none"> <li>Orientation, PMBOK, Project Initiation</li> <li>WBS, Estimation, CPM, EVM</li> </ol>

3.	Risk, Team, Comm., Motivation, Conflict, Critical Thinking, Negotiation
4.	Predictive & Adaptive Approach for PM
5.	Business Analysis

学習の到達目標 /Learning Objectives	
日	
英	<p>Participants will develop metacognitive skills regarding their own problem-solving and decision-making processes using PMBOK.</p> <p>Participants will be able to explain the significance of your research to others in an easy-to-understand way.</p> <p>Participants will be able to select the appropriate management process according to the type of the project.</p> <p>Exchanging ideas with students from different fields of study can provide broader insights into your own research.</p> <p>Participants will understand that Project Management is an activity that supports value realization, and that management itself does not have inherent value.</p>

学習目標の達成度の評価基準 / Fulfillment of Course Goals (JABEE 関連科目のみ)	
日	
英	

授業計画項目 /Course Plan			
No.		項目 Topics	内容 Content
1	日	Day 1(1)	Orientation Marshmallow Challenge (*)
	英		
2	日	Day 1(2)	PMBOK overview Project experience sharing (*)
	英		
3	日	Day 1(3)	Project Charter Stakeholder Identification Tent Development (*)
	英		
4	日	Day 2(1)	Review of the last session Work Breakdown Structure (WBS)
	英		
5	日	Day 2(2)	Estimation Critical Path Method (CPM)
	英		
6	日	Day 2(3)	Earned Value Management (EVM)
	英		
7	日	Day 3(1)	Review of the last session Project Kids Adventure (PKA) report sharing & discussion (*)
	英		
8	日	Day 3(2)	Risk management Team management Map drawing (*)
	英		
9	日	Day 3(3)	Communication

	英		Motivation Conflict management Critical Thinking / Dialectic Negotiation
10	日	Day 4(1)	Review of the last session Biblio Battle (*)
	英		
11	日	Day 4(2)	Agile /Adaptive approach of PM Lean Management
	英		
12	日	Day 4(3)	System Thinking Business Model Canvas Research Model Canvas (*)
	英		
13	日	Day 5(1)	Review of the last session Business Analysis
	英		
14	日	Day 5(2)	Elicitation Technique Research Project Interview (*)
	英		
15	日	Day 5(3)	Business case Decision table (*)
	英		

## 履修条件 /Prerequisite(s)

日	
英	

## 授業時間外学習（予習・復習等） /Required study time, Preparation and review

日	<ul style="list-style-type: none"> <li>・ PKA report</li> <li>・ Biblio battle preparation</li> <li>・ Research Project Plan</li> </ul>
英	

## 教科書／参考書 /Textbooks/Reference Books

日	Please introduce a good book that was helpful for your learning at the Biblio Battle on day 4.
英	

## 成績評価の方法及び基準 /Grading Policy

日	<ul style="list-style-type: none"> <li>・ Reports</li> <li>・ Attendance</li> <li>・ Active participation in mutual learning.</li> </ul>
英	

留意事項等 /Point to consider	
日	<ul style="list-style-type: none"><li>・ This class is a hybrid format of lectures and workshops, providing a collaborative learning environment where you can actively exchange your thoughts and opinions with others.</li><li>・ While I recommend using AI-generated content, please use it at your own risk</li></ul>
英	