

2025 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（博士前期課程）： /Graduate School of Science and Technology (Master's Programs)	今年度開講/Availability	/有：/Available
学域等/Field	/独立専攻：/Fibro/BBM	年次/Year	/1～2年次：/1st through 2nd Year
課程等/Program	/先端ファイブ科学専攻：/Master's Program of Advanced Fibro-Science	学期/Semester	/通年：/All year (Spring/Fall)
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	65129905			
科目番号 /Course Number	65160210			
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	テクニカルテキスタイルの応用 II：Application of Technical Textiles II			
担当教員名 / Instructor(s)	/奥林 里子/(Ada Ferri)：OKUBAYASHI Satoko/Ada Ferri			
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			
科目ナンバリング /Numbering Code	M_AF6131			

授業の目的・概要 Objectives and Outline of the Course	
日	Keywords: Technical textiles, filtration, medical, automotive, protection, industrial, geotechnical Final competences: 1 Understanding of technical applications of textile materials and structures. 2 Be able to design specific textile products for technical markets.
英	Keywords: Technical textiles, filtration, medical, automotive, protection, industrial, geotechnical Final competences: 1 Understanding of technical applications of textile materials and structures. 2 Be able to design specific textile products for technical markets.

学習の到達目標 Learning Objectives	
日	Be able to design specific textile products for technical markets.
英	Be able to design specific textile products for technical markets.

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	Filtration textiles 1	Filtration textiles 1
	英	Filtration textiles 1	Filtration textiles 1
2	日	Filtration textiles 2	Filtration textiles 2
	英	Filtration textiles 2	Filtration textiles 2
3	日	Protective Textiles 1	Protective Textiles 1
	英	Protective Textiles 1	Protective Textiles 1
4	日	Protective Textiles 2	Protective Textiles 2
	英	Protective Textiles 2	Protective Textiles 2
5	日	Medical textiles 1	Medical textiles 1
	英	Medical textiles 1	Medical textiles 1
6	日	Medical textiles 2	Medical textiles 2
	英	Medical textiles 2	Medical textiles 2
7	日	Civil Engineering Applications 1	Civil Engineering Applications 1
	英	Civil Engineering Applications 1	Civil Engineering Applications 1
8	日	Civil Engineering Applications 1	Civil Engineering Applications 2
	英	Civil Engineering Applications 2	Civil Engineering Applications 2
9	日	Civil Engineering Applications 1	Civil Engineering Applications 3
	英	Civil Engineering Applications 3	Civil Engineering Applications 3
10	日	Industrial Garment Applications 1	Industrial Garment Applications 1
	英	Industrial Garment Applications 1	Industrial Garment Applications 1
11	日	Industrial Garment Applications 2	Industrial Garment Applications 2
	英	Industrial Garment Applications 2	Industrial Garment Applications 2
12	日	Industrial Garment Applications 3	Industrial Garment Applications 3
	英	Industrial Garment Applications 3	Industrial Garment Applications 3
13	日	Transportation Applications (automotive, aviation) 1	Transportation Applications (automotive, aviation) 1
	英	Transportaiton Applications (automotive, aviation) 1	Transportation Applications (automotive, aviation) 1
14	日	Transportation Applications (automotive, aviation) 2	Transportation Applications (automotive, aviation) 2
	英	Transportaiton Applications (automotive, aviation) 2	Transportation Applications (automotive, aviation) 2
15	日	Transportation Applications (automotive, aviation) 3	Transportation Applications (automotive, aviation) 3
	英	Transportaiton Applications (automotive, aviation) 3	Transportation Applications (automotive, aviation) 3
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	Initial competences: <ul style="list-style-type: none"> • Bsc level in mathematics, physics, general process engineering; • Advanced understanding of textile technology and materials engineering.
英	Initial competences: <ul style="list-style-type: none"> • Bsc level in mathematics, physics, general process engineering; • Advanced understanding of textile technology and materials engineering.
教科書／参考書 Textbooks/Reference Books	
日	Textile Advances in the Automotive Industry 1st Edition, Editor: R Shishoo, ISBN: 9781845693312 Textiles for Industrial Applications 1st Edition, CRC Press, eBook ISBN 9780429187353 Handbook of Medical Textiles Woodhead Publishing, by V Bartels, Wood
英	Textile Advances in the Automotive Industry 1st Edition, Editor: R Shishoo, ISBN: 9781845693312 Textiles for Industrial Applications 1st Edition, CRC Press, eBook ISBN 9780429187353 Handbook of Medical Textiles Woodhead Publishing, by V Bartels, Wood
成績評価の方法及び基準 Grading Policy	
日	End-of-term evaluation Examination methods in case of periodic evaluation during the first examination period: Written Examination Examination methods in case of periodic evaluation during the second examination period: Written Examination Examination
英	End-of-term evaluation Examination methods in case of periodic evaluation during the first examination period: Written Examination Examination methods in case of periodic evaluation during the second examination period: Written Examination Examination
留意事項等 Point to consider	
日	Teaching language is English. Intensive course
英	Teaching language is English. Intensive course