Projects Summer Semester 2020

Project 1	**3D-Printing and its Potential for Functional Textiles**
Project supervisors	**Prof. Dr. M. Muth, (A. Glogowsky)**
General meeting day/ time	Tuesdays, 16h15, tbd
1. Meeting	Friday, 24th April 2020 at 09h00 in room GE 04
Content of project work	• Literature research regarding 3D printing and functional textiles • Brainstorming regarding an idea for a 3D-printed product • Product development of a functional 3D printed functional textile from the idea to a prototype • Development of a marketing concept for the chosen product, incl. market analysis, SWOT analysis, marketing plan, etc. • Evaluation of a suitable test method for the product • Writing a scientific project report, preparing a final presentation and presenting the results
Aim of the project	• Knowledge of 3D printing technology in theory and practice • Learning possibilities and limitations of 3D printing • Target-oriented work in a small group by making use of individual strengths • Learning and improving project management skills

Project 2	**Applied Plasma Functionalization**
Project supervisor	**Dr. Esther Rohleder**
General meeting day/ time	Fridays, 09h15 – 11h45
1. Meeting	Friday, 24th April 2020 at 09h00 in room GE 04
Content of project work	• Analysis of plasma processes and their effects on textiles • After detailed theory parts several plasma methods will be worked out in collaboration with the supervisor • Focus on scientific experimental design, performance, analysis and documentation A scientific report will be generated at the end of the course.
Aim of the project	• Deeper knowledge of possibilities for plasma processes in the textile process chain • Improvement of scientific work and scientific documentation of results (e.g. as preparation for the master thesis)

Project 3	**Occupational Safety and Health: Labor Finishing**
Project supervisors	**Prof. Dr. Monika Eigenstetter, Prof. Dr. Maike Rabe**
General meeting day/ time	Fridays, 09h00 – 11h00, tbd
1. Meeting	Friday, 24th April 2020 at 09h00 in room GE 04
Content of project work	• Definition of the goals and the economic benefits of Occupational Safety and Health (OSH) • Study of ISO Standards, German Regulation (ArbSchG, ASiG) and guidelines on OSHA.org • Ways of implementation and control of work safety (Safety Management System): Measures of Occupational Safety and Health (OSH) • Hazard analysis in selected technical departments of the university (spinning, finishing, sewing) with reporting • Development of appropriate improvements
Aim of the project	• Knowledge of safety assessments and the relevant standards for selected processes in the textile production chain • Safety risk management • Documentation • Report and presentation

Project 4	**International Sourcing Strategies in different industries and market segments**
Project supervisor	**Prof. Dr. Uwe Schlick**
General meeting day/ time	Fridays, 10h00 – 11h30
1. Meeting	Friday, 24th April 2020 at 09h00 in room GE 04
Content of project work	• Description and comparison of sourcing strategies in theory (f. e. single/dual/multiple; unit/modular; domestic/ local/global, contractual/platform; on stock/demand tailored; insourced/outsourced) • Theoretical analysis of advantages/disadvantages • Definition of industries/companies to analyse (f.e. textile retailers, car, tech) • Definition of market segments/companies to analysis (f. e. luxury, mass market, discount) • Practical analysis of the main sourcing strategies in different internationalized industries and segments • Creating of a table which strategy suites the different industries/market segments best and why
Aim of the project	• Get to know the different sourcing strategies in theory • Get familiar with sourcing strategies being in practice in different industries and market segments • Get the understanding why different sourcing strategies are chosen in different industries • Create a checklist/diagram which strategy to choose

Project 5	**Women at Work in Textile Sector** **Global and Regional Realities and Challenges**
Project supervisor	**RA. Ulrike Wenzel-Daugsch**
General meeting day/ time	Fridays, 08h15 – 12h15
1. Meeting	Friday, 24th April 2020 at 09h00 in room GE 04
Content of project work	A. How They Work -The Actual Situation of Women Workers in Textile Sector Labor contracts - Traditional Work- Informal Employment Forced Labour - Migrant Workers - Slavery ..... B. Remedies /Achievements Actual Legal Standards - Social Regulations- Organizations B. Outlook Activities- Ideas- Recommendations
Aim of the project	We will Investigate, Identify, Analyze and Describe • Varieties of work • Social aspects • Gender- related disadvantages Discrimination - Payment-Gap - Family care .... • Legal Protection..... in Different Countries We elaborate possible ways out, e.g. • Necessity of economic, social and legal empowerment etc. Suggestion Protective Measures.....