Project Winter Semester 2018/ 19

Project 1

Title of the project	**Colour-Changing Yarns**
Project supervisor	**Prof. Dr. Anne Schwarz-Pfeiffer;** **M.Sc. Marina Normann**
General meeting day/ time with Project supervisor	Fridays, tba
1. Meeting	Friday October 05th, 2018 at 08h15 am Room W 112
Content of project work	This technical project addresses the development of yarns that can change their colour when they are stretched. The colour change is based on structural colour principles that are inspired by nature. There are several animals like the morpho butterfly, the chameleon or the octopus that are able to change their colours. The structural colour principle can be transferred onto textiles by special pigments and dyestuffs as well as by applying multiple, very thin polymeric layers onto a textile surface.
Aim of the project	- Coating experiments with different polymers, pigments and metals to mimick a colour change on a yarn when it is stretched - Characterizing the yarn - Presenting and discussing your results by writing a scientific journal paper

Project 2

Title of the project	**Biotechnology and Textiles**
Project supervisor	**Dr. Sabrina Kolbe**
General meeting day/ time with Project supervisor	Fridays, 08h15
1. Meeting	Friday October 05th, 2018 at 08h15 am Room W 112
Content of project work	Scientific analysis of enzymes used in the textile chain up to reprocessing. For this purpose, after detailed theory parts several biotechnological methods will be worked out in collaboration with the supervisor. Scientific experimental design, performance, analysis and documentation will be focused. A scientific report will be generated at the end of the course.
Aim of the project	Deeper knowledge of biotechnology 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

Title of the project	**How to internationalize a fashion brand - preparation of a checklist based on success- and failure analysis**
Project supervisor	**Prof. Dr. Uwe Schlick**
General meeting day/ time with Project supervisor	Fridays, 10h00 – 11h30
1. Meeting	Friday October 05th, 2018 at 08h15 am Room W 112
Content of project work	Identification of general strategies to internationalize fashion brands. Analysis of companies which internationalized successfully and of those which failed in their internationalization. Interview or questionnaire with or for 1-2 companies Identification of the parameters for failure and success. Preparation of a checklist of what´s to do to internationalize successfully.
Aim of the project	Get to know general strategies for internationalization. Learn about the major drivers of successful internationalization. Transfer the identified parameters into a checklist get into contact with an internationalized company