

Module	Innovative product development
Language	English
Credits	6
Stud. workload	180h, of which 30h online presence and 30h presence (at partner's lab)
Frequency (WS / SS)	Yearly, SS
Contents	<ul style="list-style-type: none"> - Special aspects of innovation and product development process (e.g. sustainability) - Special aspects of sensory consumer studies - Characteristics of sustainable food production - Case studies in the different stages of product development - Case studies on different criteria of sustainable food production and development - Training on multivariate analysis (MVA) and design of software for designing experiments - Project work in laboratory
Qualification targets	<p>Students are able to</p> <ul style="list-style-type: none"> - apply innovative methods to develop sustainable food products - consider and reflect nutritional, environmental, economic and social aspects during product development process - classify problems at the different stages of product development - consider food legislation during product development process - design and conduct appropriate sensory tests at the different stages of product development process - use actual software for design, development and optimization process - evaluate the needs of different consumer groups and apply them for the product development - apply methods how to measure emotions and motivation of consumers for purchase decisions - classify effects of contextual settings on food choice - work in project teams during the process of product development - present and evaluate product concepts - reflect their working process
Literature	<p>MacFie, H. 2007: Consumer-led food product development. Boca Raton, CRC Press. Boston, New York, Washington;</p> <p>Moskowitz, H.; Becklay, J.; Ressurreccion, A.V.A. 2006: Sensory and Consumer Research in Food Product Design and Development. Blackwell Pub. Ames, Iowa.</p>
Learning methods	Enriched-virtual: e-learning (40 contact hours) and final laboratory work (20h)
Examination type	Report 50% and poster presentation 50%
Study system usability	Compulsory module for students with focus on sustainable supply chain, see § 7, Examination Regulations MSc Sustainable Food Systems
Entrance requirements	see § 6, Examination Regulations MSc Sustainable Food Systems