

<b>Name of the course</b>	<b>Adhesive processes and systems</b>
Number of instruction hours	20
Outline of course/module content	The science of interfaces. The phenomena of wetting and contact angle. Factors affecting the contact angle. Contact angle hysteresis. Determination of surface and interfacial tension. Theories and mechanisms of adhesion. Prerequisites for optimal adhesion. Adhesive materials. Adhesively bonded joint and joint design. Physical and chemical mechanisms of adhesive curing. Formulation engineering of adhesive products (adhesives, sealants, coatings). Characterization of adhesive materials. Destructive and non-destructive testing of adhesive materials. Stability of the adhesive joints under the influence of the environment. Environmentally sustainable adhesive products.
Description of instruction methods	Lectures and seminar
Description of course/module requirements	Seminar and oral exam