

## Course units for the doctoral programme in P0719D130002 Nanotechnology and Advanced Materials

Course units are selected in accordance with Article 36 of the Study and Examination Regulations of TBU in Zlín.

Courses	Name of Subject	Lecturer
<b>Compulsory course units</b>		
CJV/DTAW	Academic Writing (bez zk.) *	doc. Ing. Anežka Lengálová, Ph.D.
CJV/DTTP	Technical Presentation *	doc. Ing. Anežka Lengálová, Ph.D.
<b>Basic compulsory elective course units:</b>		
<b>Student shall select a minimum of 3 course units from the basic compulsory elective course units</b>		
TCPM/TWEIM	Instrumental Methods in Analysis and Testing of Materials	doc. Ing. Michal Sedlačík, Ph.D.
TCPM/TWEKN	Composite and Nanocomposite Materials	doc. Ing. Jarmila Vilčáková, Ph.D.
TCPM/TWENN	Nanomaterials and Nanotechnology	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph.D.
TCPM/TWEPM	Advanced Materials and Technologies	doc. Ing. Tomáš Sedláček, Ph.D.
TUTTK/TWEPK	Advances in Colloid Chemistry	doc. Ing. Marián Lehocký, Ph.D.
<b>Other compulsory elective course units:</b>		
<b>Student shall select one of the other compulsory elective course units.</b>		
TCPM/TWEEM	Electric and Magnetic Properties of Nanomaterials	doc. Natalia Kazanstseva, MSc., Ph.D. doc. Ing. Jarmila Vilčáková, Ph.D.
TUVI/TWEFP	Polymer Physics	prof. Ing. Berenika Hausnerová, Ph.D.
TCPM/TWEMI	Microscopic Analyses	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph.D.
TCPM/TWENS	Nanotechnology for Sensors	prof. Ing. Petr Slobodian, Ph.D.
TUVI/TWENK	Theory of Metallic Materials	prof. Ing. Karel Kocman, DrSc.
TUTTK/TWEPF	Advances in Physical Chemistry	doc. Ing. Marián Lehocký, Ph.D.
TCPM/TWERD	Rheology of Dispersed Systems	doc. Ing. Michal Sedlačík, Ph.D.
TCPM/TWEST	Special Techniques of Nanomaterials Synthesis	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph.D. Raghendra Singh Yadav, M.Sc., Ph.D.
TUFMI/ TWESV	Structure and Characteristics of Solids	doc. RNDr. Petr Ponižil, Ph.D.
TCPM/TWEUS	Fatigue and Aging of Materials	prof. Ing. Petr Slobodian, Ph.D.

\*) Course units CJV/DTAW and CJV/DTTP merged together form 1 compulsory course unit, jointly referred to as Technical Communication in English in the Individual Curriculum

**Student shall select a minimum of 4 course units, which shall include a minimum of 3 compulsory selective course units and a minimum of one of the other compulsory selective course units, that help improve or broaden knowledge in the specialization depending on the particular topic of the student's doctoral thesis. The course units shall be selected with respect to the multidisciplinary character of the degree course. The course unit Technical Communication in English is prescribed as compulsory.**

**In compliance with the Study and Examinations Rules (SER) of TBU in Zlín, students are allowed to choose also other elective course units upon request by the supervisor and upon approval by the relevant Doctoral Programme Board.**