INFORMAČNÝ LIST PREDMETU

Vysoká škola: Trenčianska univerzita Alexandra Dubčeka v Trenčíne

Fakulta: Fakulta špeciálnej techniky

Kód predmetu: KSTM/3-77/d/17	**Názov predmetu:** Computer Aided Design in Catia II

Druh, rozsah a metóda vzdelávacích činností:
 Forma výučby: Prednáška / Cvičenie / Laboratórne cvičenie
 Odporúčaný rozsah výučby (v hodinách):
 Týždenný: 0 / 0 / 2 **Za obdobie štúdia:** 0 / 0 / 24
 Metóda štúdia: prezenčná

Počet kreditov: 6

Odporúčaný semester/trimester štúdia:

Stupeň štúdia: N

Podmieňujúce predmety:

Podmienky na absolvovanie predmetu:
 100% participation in laboratory exercises, completion of set tasks (max. 2 excused absences), individual work for non-participation in seminars, passing a credit test in the form of modeling based on given examples, successful completion of at least 60% of total points.
 Final evaluation: Final testing in the form of 3D modeling of selected components. Of the total number of 100% points, at least (E) - 55%, (D) - 65%, (C) / 75%, (B) - 85%, (A) - 95%

Výsledky vzdelávania:
 The course focuses on practical understanding of computer-aided engineering. Acquire knowledge and practical skills in the application of advanced features of solid modeling in CAE system CATIA V5R20.

Stručná osnova predmetu:
 Creation of surface and solid geometry in CAE in CATIA V5R20 system in modules: Sketcher, Part Design, Assembly Design, Drafting, Generative Shape Design.
 Course contents: Effects of Features on the design intent, Specification tree, Rendering styles, Developmental stages of volume geometry creation, Reference planes, Sketched geometry creation, Geometric and dimensional constraints, Dimensional constraint adjustment, Basic and complementary Features in Part Design, Model investigation , Model Construction History, Features Activation and Deactivation, Transform Tools, Sketch Analysis, Subelements in Sketch, Importance of Proper Order of Features, Dress-up Features, Edit Features, Reorder Features, Features Features, Parent-Child Relationships, Disintegration Features , Data reuse, Duplication Features, Pattern breakage, Removing individual elements in the Pattern, Holding specifications, Working with catalogs, Working with reports, Drafting - drawing documentation creation.

Odporúčaná literatúra:

Jazyk, ktorého znalosť je potrebná na absolvovanie predmetu:
 English

Poznámky:
 The subject is provided to Erasmus students. The subject is selective.

Hodnotenie predmetov
 Celkový počet hodnotených študentov: 11

A	B	C	D	E	Fx
100.0	0.0	0.0	0.0	0.0	0.0

Vyučujúci: doc. Ing. Jozef Majerík, PhD.

Dátum poslednej zmeny: 27.09.2022

Schválil: