


## EX – Extra-Curricular Activities

▶ ST10				Industrial Training Period			
C	TD	TP	THE		AUTUMN SPRING	6 CREDITS	
0	0	0	140				
<b>OBJECTIVES:</b> <ul style="list-style-type: none"> <li>▶ Give students a first professional experience.</li> <li>▶ During the training period the student will work at a work station and carry out a production task.</li> </ul>				<b>SYLLABUS:</b> <ul style="list-style-type: none"> <li>▶ During the semester preceding the training period:                             <ul style="list-style-type: none"> <li>▶ Preparation in TD (applying for training periods, CV preparation, covering letters, presentations)</li> <li>▶ Four-week training period during inter-semester vacation (February or July)</li> </ul> </li> <li>Following semester:                             <ul style="list-style-type: none"> <li>▶ Presentations on training period experience, debates on company structure, report correction</li> </ul> </li> <li>▶ All students wishing to carry out an training period must complete the health and safety course.</li> </ul>			

## Glossary of Online UV consultation

**Prerequisite** : Some UVs require that previous UVs must have been successfully completed. Some UVs have several prerequisites.

**ACM** : Actuators and Mechatronic Control Systems Specialisation.

**C** : Lecture

**Category** : Each UV is classed in one of the following categories:

- CS Scientific Knowledge;
- TM Techniques and Methods;
- EC Expression and Communication;
- CG General Education;
- RN Revision;
- EX Exterior.

**CDP** : Product Design and Development Specialisation

**CIM** : Design and Material Innovation Specialisation

**UV Code** : Code designating a UV

**ECTS Credit** : The value of a UV in the ECTS system (European Credit Transfer System)

**CSM** : Mechatronic System Design Specialisation

**CSP** : Production Systems Design Specialisation

**Department** : Teaching Department

**Dept.** Teaching Department

**DIC** : Industrial Design Specialisation

**EDD** : Energy and Sustainable Development Specialisation.

**EDIM** : Ergonomics, Design and Mechanical Engineering Department

**EIC** : Ergonomics, Design and Innovation Specialisation

**EnE** : Energy and Environment Specialisation.

**ESE** : Electronics and On-Board Systems Specialisation

**Specialisation** : Specialisation within a department

**GESC** : Electrical Engineering and Control Systems Department

**UV Guide** : The UV Guide catalogues all UVs taught at UTBM during an academic year.

**HUMA** : Humanities Department

**IIRV** : Image, Interaction and Virtual Reality Specialisation

**ILC** : Software and Knowledge Engineering Specialisation

**IMAP** : Manufacturing Management and Engineering Department

**INFO** : Computer Science Department

**IP** : Product Industrialisation Specialisation

**Language (teaching)** : Language in which a UV is taught in.

**LEIM** : On-Board Software and Mobile Computing Specialisation

**MC** : Mechanical Engineering and Design Department

**MOM** : Numerical Modelling in Mechanics.

**MPL** : Management of Production and Logistics Specialisation

**Level** : Level of UV within degree courses. From 01 to 06

**Basket** : Contains the UVs chosen by a user to create a personalised catalogue

**PISP** : Managing and Computerising Production Systems Specialisation

**Recognition** : Level of recognition within a specialisation or department (0, 1 or 2) for a UV :

- 0: the UV has no link with the specialisation. It does not count as part of the department's degree course, but rather as an additional UV.
- 1 or \*: the UV is related to the department's degree course but is not part of the group of key skills to be acquired for the specialisation.
- 2 or \*\*: the UV is part of the group of key skills to be acquired for the specialisation.

**R&T** : Networks and Telecoms Specialisation

**Semester** : Indicates during which semester a UV is taught

**Timetable Organisation** : The way in which a UV is divided up into its constituent parts (TD, TP, Lecture, THE)

**TC** : Common core. Equivalent to first two years of an Engineering Degree

**TD** : Tutorials

**THE** : Unsupervised work. The number of hours of personal work necessary to complete a UV


**TP** : Practicals

**TSE** : Transport and Drive Systems Specialisation.

**UV (Course Credit)** : Course taught at UTBM. A Course Credit is taught within a department or department specialisation

# Key

- 1 C : Lecture
- 2 TD : Tutorials
- 3 TP : Practicals
- 4 THE : Unsupervised work. The number of hours of personal work necessary to complete a UV.
- 5 Prerequisite : Some UVs require that previous UVs must have been successfully completed. Some UVs have several prerequisites.
- 6 EIC : Ergonomics, Design and Innovation Specialisation
- 7 DIC : Industrial Design Specialisation
- 8 ECTS Credit : The value of a UV in the ECTS system (European Credit Transfer System)
- 9 Language (teaching) : Language in which a UV is taught in.

▶ CP92		Design and Dimensioning of Complex Shapes			
1 32	2 28	3 18	4 42	5 42	6 42
			SPRING	8 6 CREDITS	7 *DIC *EIC 8 Prerequisite CP80
<b>OBJECTIVES:</b> <ul style="list-style-type: none"> <li>▶ Gain awareness in the modelling of complex shapes.</li> <li>▶ Students should be able to model objects and their associated interfaces using ergonomic and aesthetic criteria.</li> </ul>			<b>SYLLABUS:</b> <ul style="list-style-type: none"> <li>▶ Impact of aesthetic, ergonomic, material and manufacturing constraints on product shape</li> <li>▶ CAD surfaces in advanced software</li> <li>▶ Mathematics applied to geometry (splines, Bézier curves, Nurbs')</li> <li>▶ A-class complex surfaces</li> </ul>		