EC – Expression and Communication

LE03 Practical English and TOEIC

C	14
TD	28
TP	21
THE	57

AUTUMN
SPRING

6 CREDITS

Prerequisites :
LE02 ou équivalent

OBJECTIVES:

- Use of English for communicating in a working environment, intercultural awareness and preparation for TOEIC exam.

SYLLABUS:

- Written communication: tools for work (covering letters, CVs, reports)
- Oral communication: work and leisure situations (participating and chairing meetings, individual and group presentations, job interviews)
- Grammar: verb tenses and forms, articles, complex sentences

LE07 English for Technology and Industry

TD	28
TP	14
THE	38

AUTUMN
SPRING

4 CREDITS

OBJECTIVES:

- Acquire keyword vocabulary for industry.
- Introduction to technical descriptions: project, equipment, process.
- Roleplay industrial activities.

SYLLABUS:

- Working in industry
- Figures, measurements, graphs and diagrams
- Describing a piece of equipment, a system, a process

LE09 — English for oral communication

TD 28
TP 14
THE 38

AUTUMN
SPRING

4 CREDITS

Prerequisite : LE03

OBJECTIVES:
- Give students the techniques and methods for preparing and giving an effective presentation.

SYLLABUS:
- What makes a good speaker?
- The three parts: audience, presentation and speaker.
- The speaker's signals
- Preparation: generating ideas and identifying priorities
- Structure: 3 golden rules
- Key skills: the three Vs: Visual, Vocal, Verbal
- How to keep the audience's attention
- Reading a text
- Listening
- Dealing with questions

LS02 — Spanish Level II

TD 28
TP 14
THE 38

AUTUMN
SPRING

4 CREDITS

Prerequisites : LS01 ou équivalent

OBJECTIVES:
- Consolidate students'knowledge from different sources by reviewing fundamental language skills.
- Learn to manage different situations.

SYLLABUS:
- The world of work, clothes, business
- Work, employment
- The home, where we live
- Food, restaurants
- Travel, advice, accidents
- Shops
- Tourism, transport
- Working with colleagues
- The State
- Youth (past and present)
- Automobile industry
- Leisure
- Messages and letters
- Progressive verbs, revising the basics, frequently used nuances

LS03 — Practical Spanish and International Exam

TD 42
TP 21
THE 57

AUTUMN
SPRING

6 CREDITS

Prerequisites : LS 02 ou équivalent

OBJECTIVES:
- Improve language skills acquired in previous course credits.
- Be more at ease while communicating.
- Preparation of international exam.
- Presentations.

SYLLABUS:
- Companies, the workplace
- Intercultural awareness in companies
- Women and managerial positions
- Emigration
- Tourism industry
- Education, culture and television
- Sport
- Cuba
- Sustainable development and the environment
- Learning to be an entrepreneur
- Technology in everyday life
- The Spanish–speaking world and the United States

	▸ Written and oral communication (presentations) ▸ Grammar: consolidating and mastering more subtle ways of expression

SL02	Independent Language Study in Spanish
THE 80 AUTUMN SPRING 4 CREDITS	**OBJECTIVES:** ▸ Allow students to consolidate skills by carrying out individual work with the help of a tutor. ▸ Develop and produce a project. **SYLLABUS:** ▸ Joint definition of a subject by student and teacher.

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

C (1)	TD (2)	TP (3)	THE (4)	Language (9)		ECTS (8)	DIC (7) / EIC (6)
32	28	18	42		SPRING	6 CREDITS	*DIC *EIC Prerequisite CP80 (5)

OBJECTIVES:

- Gain awareness in the modelling of complex shapes.
- Students should be able to model objects and their associated interfaces using ergonomic and aesthetic criteria.

SYLLABUS:

- Impact of aesthetic, ergonomic, material and manufacturing constraints on product shape
- CAD surfaces in advanced software
- Mathematics applied to geometry (splines, Bézier curves, Nurbs')
- A-class complex surfaces