

COURSE OUTLINE
of the class 2022 - 2026

Transilvania University of Braşov

*Bachelor's degree
study programme*

INDUSTRIAL DESIGN (in English)

Fundamental field

ENGINEERING SCIENCES

Bachelor's degree study field

INDUSTRIAL ENGINEERING

Faculty

PRODUCT DESIGN AND ENVIRONMENT

Duration of studies:

4 YEARS

Form of education:

Full-time (IF)

1. EDUCATIONAL OBJECTIVES AND COMPETENCES

General objective of the study programme: training of Industrial Design engineers, with skills in the design and development of products through design (design specifications, conceptual design, embodiment design), prototyping, promotion, implementation, exploitation and decommissioning.

The objectives and the profile of competencies developed in accordance with the needs identified on the labour market and with the national qualifications framework are summarized below and detailed in the syllabi of the curriculum.

Objectives

To provide the set of general knowledge and skills in the field of engineering sciences, and those applied in product design and development.

To provide the theoretical and practical toolkit for identifying, interpreting and solving problems in the field of industrial engineering and, in particular, in product design and development.

To provide professional and transversal competencies necessary to the Industrial Design engineer, which ensure a quick insertion of the graduates on the national and / or international labour market and skills of action in a social context.

To ensure the quality of learning processes and outcomes in compliance with current national legislation, norms and standards.

Professional competences

To perform calculations, demonstrations and applications, to solve tasks specific to industrial engineering based on knowledge from fundamental sciences

To associate knowledge, principles and methods from the technical sciences of the field with graphic representations for solving specific tasks

To use software applications and digital technologies to solve tasks specific to industrial engineering, in general, and industrial design, in particular

To associate industrial design knowledge in order to harmonize functional, constructive, technological aspects with aesthetic, ergonomic and ecological aspects

To apply creativity techniques in the development of new products and management of the product throughout its life cycle

To associate industrial design knowledge with classical and digital techniques of artistic creation for product promotion

Transversal competences

To apply the values and ethics of the engineering profession and the responsible execution of professional tasks under conditions of limited autonomy and qualified assistance. To promote logical, convergent and divergent reasoning, practical applicability of evaluation and self-evaluation in decision-making

To carry out the activities and exercise the specific team work roles on different hierarchical levels. To promote the spirit of initiative, dialogue, cooperation, positive attitude and respect for others, diversity and multiculturalism and the continuous improvement of one's own activity

To self-assess objectively the need for continuous professional training under the purpose of insertion on the labour market and adaptation to the dynamics of its requirements and for personal and professional development. To use effectively language skills, information knowledge and communication technology.

2. STRUCTURE PER WEEKS OF THE ACADEMIC YEAR

Number of semesters: 2

Number of credits per semester: 30

Number of hours of teaching activities /week: 26-28

Number of weeks: 14

| | Teaching activities | | Exam sessions | | | Internship | Holidays | | |
|----------|---------------------|---------|---------------|--------|---------|------------|----------|--------|--------|
| | Sem. I | Sem. II | Winter | Summer | Retakes | | Winter | Spring | Summer |
| Year I | 14 | 14 | 4 | 4 | 2 | - | 3 | 1 | 10 |
| Year II | 14 | 14 | 4 | 4 | 2 | 3 | 3 | 1 | 10 |
| Year III | 14 | 14 | 4 | 4 | 2 | 3 | 3 | 1 | 10 |
| Year IV | 14 | 10 | 3 | 3 | 1 | 4 | 3 | 1 | - |

Depending on the specifics of the study programme, the internship is organized all together and / or along the semesters.

3. PROVISION OF EDUCATION FLEXIBILITY. CONDITIONINGS

The flexibilization of the study programme is ensured by optional disciplines and facultative disciplines. The **disciplines at choice (optional)** are proposed starting with the second semester and are grouped into **optional subjects or optional packages**, which completes the student's specialization route. The choice of the route is made by the student in the academic year prior to the conduct of the optional subjects or packages (except the options for the second semester, which are expressed in the first semester).

The courses of the **facultative disciplines** are organized through the *Centre for Continuing Education* (CFC). In the curriculum of each bachelor's study programme, only the modules and the corresponding number of hours are recorded; the name of the discipline is to be entered in the academic record according to the student's option. The facultative disciplines proposed by the faculties or the disciplines of other study programmes chosen by the student are grouped into 5 modules:

- Module A (socio-humanistic disciplines)
- Module B (Romanian and other modern languages)
- Module C (computer-science disciplines, TIC)
- Module D (technical disciplines)
- Module E (sports disciplines).

The procedure for conducting teaching activities within the facultative disciplines and for registering the grades / qualifiers in the Diploma Supplement is presented in the *Regulations on students' professional activity* and in the *Instruction Initiation and conduct of facultative disciplines*. The credits for the facultative disciplines are allocated after taking the course graduation colloquium. The credits obtained in the facultative subjects do not replace the credits for compulsory and optional subjects.

4. CONDITIONS FOR PASSING IN THE FOLLOWING STUDY YEAR. CONDITIONS FOR PASSING A STUDY YEAR

The conditions for being enrolled in the following year, the conditions for attending course modules in advance, the conditions for passing are included in *Regulations on students' professional activity*.

5. BACHELOR'S DEGREE FINAL EXAMINATION

Period of drafting the bachelor's degree project: starting with the penultimate semester of studies.

Completion of the bachelor's degree project: in the last semester of studies.

Period of defending the bachelor's degree project: in the session June-July of the last study year.

Number of credits for defending the bachelor's degree project: 10 credits (in addition to the 240).

6. PREPARATION FOR FILLING BY COMPETITION A TEACHING POSITION

In order to fill by competition a vacancy in education, the graduate has to **hold the Certificate of Graduation of the Psycho-pedagogical Training Programme - 1st level** for secondary education and the **Certificate of Graduation of the Psycho-pedagogical Training Programme - 2nd level** for high school, post-high school or higher education. The 1st and 2nd level psycho-pedagogical training programmes are organized and coordinated by the Teacher Training Department (DPPD) according to the legislation in force.

The certification of competences for the teaching profession can be obtained at two levels, respectively:

- **1st level** (initial) – which grants university graduates the right to fill teaching positions in secondary education, provided that they accumulate a minimum of 30 transferable credits from the psycho-pedagogical training programme;
- **2nd level** (advanced) – which grants university graduates the right to fill teaching positions in high school, post-high school or higher education, provided they meet two conditions:
 - accumulation of a minimum of 60 transferable credits from the psycho-pedagogical training programme;
 - graduation of a master's programme in the field of bachelor's degree diploma.

The 1st and 2nd level psycho-pedagogical training programmes are completed with a graduation exam for each certification level.

7. STUDY DISCIPLINES PER YEARS

Transilvania University of Braşov
 Faculty: Product Design and Environment
 Bachelor's degree study programme: Industrial Design (in English)
 Fundamental field: Engineering Sciences
 Bachelor's degree field: Industrial Engineering
 Duration of studies: 4 years
 Form of education: Full-time

Ministry of Education
 Valid in the academic year 2022-2023

Aprobat în şedinţa
 Senatului Universităţii Transilvania
 din Braşov din data de
 24 septembrie 2022

YEAR I

| No. | Discipline | C ₁ * | C ₂ ** | Code of discipline | Semester I | | | | | | | Semester II | | | | | | | | |
|-------------------------------|--|------------------|-------------------|--------------------|------------|---|---|---|-----|--------|--------|-------------|----|---|---|----|-----|--------|--------|----------|
| | | | | | C | S | L | P | SI# | V | Cr | C | S | L | P | SI | V | Cr | | |
| 1. | Mathematical Analysis | FC | CPC | MAT1 | 2 | 2 | | | 44 | E | 4 | | | | | | | | | |
| 2. | Chemistry | FC | CPC | CHIM | 2 | | 1 | | 58 | E | 4 | | | | | | | | | |
| 3. | Technical Drawing and Computer Graphics I | FC | CPC | DTIF | 2 | | 2 | | 44 | E | 4 | | | | | | | | | |
| 4. | Computer Programming and Programming Languages I | FC | CPC | IDPC1 | 2 | | 2 | | 44 | C | 4 | | | | | | | | | |
| 5. | Descriptive Geometry | FC | CPC | GEOD | 2 | | 1 | | 58 | C | 4 | | | | | | | | | |
| 6. | Physics | FC | CPC | FIZ1 | 2 | | 2 | | 44 | E | 4 | | | | | | | | | |
| 7. | Industrial Design Fundamentals I | DC | CPC | IDDI | 1 | 1 | | | 47 | C | 3 | | | | | | | | | |
| 8. | Materials Science and Engineering I | DC | CPC | STMA | | | | | | | | 4 | | 2 | | 66 | E | 6 | | |
| 9. | Linear Algebra, Analytical and Differential Geometry | FC | CPC | MAT2 | | | | | | | | 2 | 2 | | | 44 | E | 4 | | |
| 10. | Technical Drawing and Computer Graphics II | FC | CPC | DTI2 | | | | | | | | 2 | | 2 | | 44 | C | 4 | | |
| 11. | Computer Programming and Programming Languages II | FC | CPC | IDPC2 | | | | | | | | 2 | | 2 | | 44 | E | 4 | | |
| 12. | Mechanics | DC | CPC | MEC1 | | | | | | | | 3 | 2 | | | 80 | E | 6 | | |
| 13. | Artistic Drawing | SC | CPC | IDDS | | | | | | | | | | 2 | | 47 | C | 3 | | |
| 14. | French | CC | CPC | LF01/ LF02 | 1 | 1 | | | 47 | C | 3 | 1 | 1 | | | 47 | C | 3 | | |
| | German | | | LG01/LG02 | | | | | | | | | | | | | | | | |
| | Spanish | | | LS01/LS02 | | | | | | | | | | | | | | | | |
| 15. | Physical education and sports I, II | CC | CPC | EF01/EF02 | | 1 | | | 11 | A/R | 1 | | 1 | | | 11 | A/R | 1 | | |
| Total | | | | | 14 | 5 | 8 | 0 | 397 | E 4 | C 4 | 30 +1 | 14 | 6 | 8 | 0 | 383 | E 4 | C 3 | 30 +1 |
| Total teaching hours per week | | | | | 27 | | | | | | | 28 | | | | | | | | |

FACULTATIVE DISCIPLINES

| No. | Facultative disciplines | C ₁ | C ₂ ** | Code | Semester I | | | | | | | Semester II | | | | | | |
|-----|-----------------------------|----------------|-------------------|------|------------|---|---|---|----|---|----|-------------|---|---|---|----|---|----|
| | | | | | C | S | L | P | SI | V | Cr | C | S | L | P | SI | V | Cr |
| 1. | MODULE A (socio-humanities) | SC | NCPC | | 2 | 1 | | | 33 | C | 3 | | | | | | | |

| | | | | | | | | | | | | | | | | | | |
|----|-----------------------------|----|------|--|---|---|--|--|----|---|---|---|---|---|--|----|---|---|
| 2. | MODULE B (modern languages) | CC | NCPC | | 2 | 1 | | | 33 | C | 3 | 2 | 1 | | | 33 | C | 3 |
| 3. | MODULE C (computer science) | SC | NCPC | | | | | | | | | 2 | | 1 | | 33 | C | 3 |
| 4. | MODULE D (technical) | SC | NCPC | | | | | | | | | 2 | | 1 | | 33 | C | 3 |
| 5. | MODULE E (sports) | CC | NCPC | | | 2 | | | 22 | C | 2 | | 2 | | | 22 | C | 2 |

Legend:

C_1^* = criterion of content:

FC –fundamental course

DC – courses in the field (where applicable)

SC – specialized course

CC – complementary courses

C_2^{**} = criterion of obligation:

CPC – compulsory subjects (imposed)

EC –optional disciplines

NCPC –facultative disciplines

SI = individual study hours

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Coordinator of study programme

Transilvania University of Braşov
Faculty: Product Design and Environment
Bachelor's degree study programme: Industrial Design (in English)
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Bachelor's degree field: Industrial Engineering
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Form of education: Full-time

Ministry of Education
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YEAR II

| No. | Discipline | C ₁ * | C ₂ ** | Code of discipline | Semester III | | | | | | | Semester IV | | | | | | | | |
|-------------------------------|---|------------------|-------------------|--------------------|--------------|---|---|---|-----|--------|--------|-------------|----|---|---|----|-----|--------|--------|----------|
| | | | | | C | S | L | P | SI# | V | Cr | C | S | L | P | SI | V | Cr | | |
| 1. | Special Mathematics | FC | CPC | MASP | 2 | 2 | | | 44 | E | 4 | | | | | | | | | |
| 2. | Measurement Techniques and Systems | DC | CPC | TOCD | 2 | | 2 | | 44 | E | 4 | | | | | | | | | |
| 3. | Strength of Materials I | DC | CPC | REZ1 | 2 | 2 | 1 | | 55 | E | 5 | | | | | | | | | |
| 4. | Industrial Design Fundamentals II | DC | CPC | BDP | 1 | | 1 | | 47 | C | 3 | | | | | | | | | |
| 5. | Technical Drawing and Computer Graphics III | FC | CPC | IDMODE | 2 | | 2 | | 44 | C | 4 | | | | | | | | | |
| 6. | Communication Skills-Ethics | CC | CPC | IDCOM | 1 | 1 | | | 22 | C | 2 | | | | | | | | | |
| 7. | Strength of Materials II | DC | CPC | REZ2 | | | | | | | | 3 | 1 | 1 | | 30 | E | 4 | | |
| 8. | Fluid Mechanics | DC | CPC | MEFM | | | | | | | | 2 | | 2 | | 19 | E | 3 | | |
| 9. | Machine Elements I | DC | CPC | IDORM1 | | | | | | | | 2 | | 1 | 1 | 44 | E | 4 | | |
| 10. | Numerical Methods | FC | CPC | IDMNI | | | | | | | | 2 | | 2 | | 44 | E | 4 | | |
| 11. | Mechanisms I | DC | CPC | IDMECA | | | | | | | | 3 | | 1 | 2 | 41 | E | 5 | | |
| 12. | Practical work 90 hours | DC | CPC | IDPr04 | | | | | | | | | | | | 10 | C | 4 | | |
| 13. | (O1) Electrical Engineering | DC | EC | ELEA | 2 | | 2 | | 69 | E | 5 | | | | | | | | | |
| | (O1) Electrical Machines and Actuators | DC | EC | MAEID | | | | | | | | | | | | | | | | |
| 14. | (O2) Industrial Management | DC | EC | IDMANF | | | | | | | | 1 | 1 | | | 47 | C | 3 | | |
| | (O2) Quality Management | DC | EC | IDMC | | | | | | | | | | | | | | | | |
| 15. | French | CC | CPC | LF03/ LF04 | 1 | 1 | | | 47 | C | 3 | 1 | 1 | | | 47 | C | 3 | | |
| | German | | | LG03/LG04 | | | | | | | | | | | | | | | | |
| | Spanish | | | LS03/LS04 | | | | | | | | | | | | | | | | |
| 16. | Physical education and sports III, IV | CC | CPC | EF03/EF04 | | 1 | | | 11 | A/R | 1 | | 1 | | | 11 | A/R | 1 | | |
| Total | | | | | 13 | 7 | 8 | 0 | 383 | E 4 | C 4 | 30 +1 | 14 | 4 | 7 | 3 | 293 | E 4 | C 4 | 30 +1 |
| Total teaching hours per week | | | | | 28 | | | | | | | 28 | | | | | | | | |

FACULTATIVE DISCIPLINES

| No. | Facultative disciplines | C ₁ * | C ₂ ** | Code | Semester I | | | | | | | Semester II | | | | | | |
|-----|-------------------------|------------------|-------------------|------|------------|---|---|---|----|---|----|-------------|---|---|---|----|---|----|
| | | | | | C | S | L | P | SI | V | Cr | C | S | L | P | SI | V | Cr |

| | | | | | | | | | | | | | | | | | | |
|----|-----------------------------|----|------|--|---|---|--|--|----|---|---|---|---|---|--|----|---|---|
| 1. | MODULE A (socio-humanities) | SC | NCPC | | 2 | 1 | | | 33 | C | 3 | | | | | | | |
| 2. | MODULE B (modern languages) | CC | NCPC | | 2 | 1 | | | 33 | C | 3 | 2 | 1 | | | 33 | C | 3 |
| 3. | MODULE C (computer science) | SC | NCPC | | | | | | | | | 2 | | 1 | | 33 | C | 3 |
| 4. | MODULE D (technical) | SC | NCPC | | | | | | | | | 2 | | 1 | | 33 | C | 3 |
| 5. | MODULE E (sports) | CC | NCPC | | | 2 | | | 22 | C | 2 | | 2 | | | 22 | C | 2 |

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Coordinator of study programme

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Bachelor's degree study programme: Industrial Design (in English)
Fundamental field: Engineering Sciences
Bachelor's degree field: Industrial Engineering
Duration of studies: 4 years
Form of education: Full-time

Ministry of Education
Valid in the academic year 2024-2025

YEAR III

| No. | Discipline | C ₁ * | C ₂ ** | Code of discipline | Semester III | | | | | | | Semester IV | | | | | | | | |
|-------------------------------|--|------------------|-------------------|--------------------|--------------|---|---|---|-----------------|--------|--------|-------------|----|---|---|----|-----|--------|--------|----|
| | | | | | C | S | L | P | SI [#] | V | Cr | C | S | L | P | SI | V | Cr | | |
| 1. | Manufacturing Technologies and Cutting Tools | DC | CPC | IDTASA | 2 | | 1 | | 33 | C | 3 | | | | | | | | | |
| 2. | Machine Elements II | DC | CPC | IDORM2 | 2 | 1 | 1 | 2 | 66 | E | 6 | | | | | | | | | |
| 3. | Heat Engineering and Thermal Machines | DC | CPC | TERM | 2 | | 1 | | 33 | E | 3 | | | | | | | | | |
| 4. | Materials Science and Engineering II (Special Materials) | DC | CPC | IDMS05 | 1 | | 2 | | 33 | C | 3 | | | | | | | | | |
| 5. | Conceptual Design I | DC | CPC | IDSPD5 | 2 | | | 2 | 69 | C | 5 | | | | | | | | | |
| 6. | Finite Element Analysis | DC | CPC | IDMEF5 | 2 | | 2 | | 69 | E | 5 | | | | | | | | | |
| 7. | Aesthetics and Ergonomics | SC | CPC | IDEE05 | 2 | | | 2 | 69 | E | 5 | | | | | | | | | |
| 8. | Computer Aided Shape Modelling in Design | SC | CPC | ID MAF06 | | | | | | | | 2 | | 1 | 1 | 44 | E | 4 | | |
| 9. | Mechanisms II (Computer Aided Modelling) | DC | CPC | MAS06 | | | | | | | | 3 | | 2 | 1 | 66 | E | 6 | | |
| 10 | Form-giving in Design I (Mock-up making) | SC | CPC | IDMa06 | | | | | | | | 2 | | 1 | | 33 | C | 3 | | |
| 11 | Conceptual Design II | DC | CPC | IDDC06 | | | | | | | | 2 | | 1 | | 33 | E | 3 | | |
| 12. | Conceptual Design II project | DC | CPC | IDDC06P | | | | | | | | | | | 2 | 22 | C | 2 | | |
| 13. | Practical work 90 hours | SC | CPC | IDPr06 | | | | | | | | | | | | 10 | C | 4 | | |
| 14. | (O3) Study of Colour for Design | SC | EC | IDCDP6 | | | | | | | | 2 | | 3 | | 55 | E | 5 | | |
| | (O3) Sustainable Product Design | SC | EC | IDDD06 | | | | | | | | | | | | | | | | |
| 15. | (O4) Design (semiotics) | DC | EC | IDDS06 | | | | | | | | 2 | | 1 | | 33 | C | 3 | | |
| | (O4) Tribology | DC | EC | IDTR06 | | | | | | | | | | | | | | | | |
| Total | | | | | 13 | 1 | 7 | 6 | 372 | E 4 | C 3 | 30 | 13 | 0 | 9 | 4 | 296 | E 4 | C 4 | 30 |
| Total teaching hours per week | | | | | 27 | | | | | | | 26 | | | | | | | | |

FACULTATIVE DISCIPLINES

| No. | Facultative disciplines | C ₁ * | C ₂ ** | Code | Semester I | | | | | | | Semester II | | | | | | |
|-----|-----------------------------|------------------|-------------------|------|------------|---|---|---|----|---|----|-------------|---|---|---|--------|---|----|
| | | | | | C | S | L | P | SI | V | Cr | C | S | L | P | SI | V | Cr |
| 1. | MODULE A (socio-humanities) | SC | NCPC | | 2 | 1 | | | 33 | C | 3 | | | | | | | |
| 2. | MODULE B (modern languages) | CC | NCPC | | 2 | 1 | | | 33 | C | 3 | 2 | 1 | | | 3 3 | C | 3 |
| 3. | MODULE C (computer science) | SC | NCPC | | | | | | | | | 2 | | 1 | | 3 3 | C | 3 |
| 4. | MODULE D (technical) | SC | NCPC | | | | | | | | | 2 | | 1 | | 3 3 | C | 3 |
| 5. | MODULE E (sports) | CC | NCPC | | | 2 | | | 22 | C | 2 | | 2 | | | 2 2 | C | 2 |

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Transilvania University of Braşov
Faculty: Product Design and Environment
Bachelor's degree study programme: Industrial Design (in English)
Fundamental field: Engineering Sciences
Bachelor's degree field: Industrial Engineering
Duration of studies: 4 years
Form of education: Full-time

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YEAR IV

| No. | Discipline | C ₁ * | C ₂ ** | Code of discipline | Semester III | | | | | | | Semester IV | | | | | | |
|-----|--|------------------|-------------------|--------------------|--------------|---|---|---|-----|---|----|-------------|---|---|---|----|---|----|
| | | | | | C | S | L | P | SI# | V | Cr | C | S | L | P | SI | V | Cr |
| 1. | Actuation, Command and Control of Mechanical Systems | SC | CPC | IDACC7 | 3 | | 3 | | 91 | E | 7 | | | | | | | |
| 2. | Embodiment Design | SC | CPC | DC07 | 2 | | | | 47 | E | 3 | | | | | | | |
| 3. | Embodiment Design - project | SC | CPC | DC07Pr | | | | 2 | 22 | C | 2 | | | | | | | |
| 4. | Design of Mechatronic Products | SC | CPC | IDMDP7 | 2 | | | 2 | 44 | C | 4 | | | | | | | |
| 5. | Product Design for Solar Energy Conversion | SC | CPC | CFD07 | 2 | | 1 | | 33 | C | 4 | | | | | | | |
| 6. | Graphic Design | SC | CPC | IDDG7 | 2 | | | 1 | 33 | E | 3 | | | | | | | |
| 7. | Project Management (10 weeks) | SC | CPC | MP08 | | | | | | | | 1 | 1 | | | 30 | C | 2 |
| 8. | Creativity and Innovation in Design (10 weeks) | SC | CPC | CID08 | | | | | | | | 2 | | 1 | | 45 | E | 3 |
| 9. | Innovation Management in Product Design (10 weeks) | SC | CPC | MINOVID | | | | | | | | 2 | | | 2 | 35 | E | 3 |
| 10. | Virtual Prototyping (10 weeks) | SC | CPC | PV08 | | | | | | | | 2 | | 1 | 2 | 50 | E | 4 |
| 11. | Web-design (10 weeks) | SC | CPC | CDP08 | | | | | | | | 2 | | 1 | | 45 | C | 3 |
| 12. | Detail Design (10 weeks) | SC | CPC | PD08 | | | | | | | | 2 | | | 2 | 60 | C | 4 |
| 13. | Elaboration of the Diploma Project (14 weeks x 4 hours) | SC | CPC | IDPRD | | | | | | | | | | | 4 | 44 | C | 4 |
| 14. | Practical Work for the Elaboration of the Diploma Project (4 weeks.x 24 hours) | SC | CPC | Pr08 | | | | | | | | | | | | 4 | C | 4 |
| 15. | (05) Object Design | SC | EC | DO07 | 1 | | 2 | | 58 | C | 3 | | | | | | | |
| | (05) Form-giving in Design II | SC | EC | CES07 | | | | | | | | | | | | | | |
| 16. | (06) Eco-design and Product Recycling | SC | EC | RP07 | 2 | | 2 | | 44 | E | 4 | | | | | | | |
| | (06) Quality in Product Design | SC | EC | WD07 | | | | | | | | | | | | | | |

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GENERAL BALANCE SHEET I

| No. | Disciplines | No of hours | | | | Total | | ARACIS Standard * |
|--------------|-------------|-------------|------------|------------|------------|----------------|------------------|-------------------|
| | | Year I | Year II | Year III | Year IV | ore | % | |
| 1 | Compulsory | 770 | 790 | 720 | 642/606 | 2922/2886 | 89,91% | <90% |
| 2 | Optional | 0 | 84 | 112 | 128 | 324 | 10,09 % | >10% |
| TOTAL | | | 770 | 874 | 832 | 770/734 | 3246/3210 | 100% |
| 3 | Facultative | 266 | 266 | 266 | 222 | 1020 | 31,42% | >10% |

GENERAL BALANCE SHEET II

| No. | Disciplines | No of hours | | | | Total | | ARACIS Standard * |
|--------------|----------------|-------------|------------|------------|------------------|--------------------|-------------|-------------------|
| | | Year I | Year II | Year III | Year IV | hours | % | |
| 1 | fundamental | 476 | 168 | 0 | 0 | 644 | 20,06% | >17% |
| 2 | field-specific | 182 | 594 | 518 | 0 | 1294 | 40,31% | >38% |
| 3 | specialized | 28 | 0 | 314 | 770 / 734 | 1112 / 1076 | 33,52% | >25% |
| 4 | complementary | 84 | 112 | 0 | 0 | 196 | 6,11% | <8% |
| TOTAL | | 770 | 874 | 832 | 770 / 734 | 3246 / 3210 | 100% | |

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