

Engenharia Informática



Code 9119

Department Computer Sciences Department

Degree Licenciado (bachelor)

Registry Initial registry:
R/A-Ef 729/2011 from 18-03-2011
Changes registry:
R/A-Ef 729/2011/AL01 de 20-08-2015

Duration 3 year(s)

Regime Daytime

National entrance exams 16 Mathematics

Course director Steven Lopes Abrantes
Sílvia Moreira

Course Secretariat Telephone: +351 232 480 500

sec-di@di.estv.ipv.pt

Curricular structure

1st Year - 1st Semester

| Course unit | Contact hours | | | | ECTS |
|--|---------------|------|----|---|------|
| | T | TP | PL | O | |
| Algebra | 13 | 39 | - | - | 4.5 |
| Algorithms and Programming | 19,5 | 26 | 52 | - | 8 |
| Mathematical Analysis | 19,5 | 39 | - | - | 5.5 |
| Digital Systems | 19,5 | - | 52 | - | 6 |
| Computer Technology | 19,5 | 19,5 | 26 | - | 6 |

T - Theoretical; TP - Theoretical and Practical; PL - Practical and laboratorial; O - Other types

1st Year - 2nd Semester

| Course unit | Contact hours | | | | ECTS |
|--|---------------|------|------|---|------|
| | T | TP | PL | O | |
| Computer Architectures | 19,5 | - | 39 | - | 5.5 |
| Data Structures | 19,5 | 26 | 52 | - | 8 |
| Applied Mathematics | - | 26 | 32,5 | - | 5 |
| Discrete Mathematics | 26 | 32,5 | - | - | 5 |
| Communication Networks I | 19,8 | - | 52 | - | 6.5 |

T - Theoretical; TP - Theoretical and Practical; PL - Practical and laboratorial; O - Other types

2nd Year - 1st Semester

| Course unit | Contact hours | | | | ECTS |
|---|---------------|----|----|---|------|
| | T | TP | PL | O | |
| Systems Analysis | 19,5 | 26 | 26 | - | 6.5 |
| Internet Applications I | 19,5 | - | 52 | - | 6.5 |
| Object Oriented Programming | 19,5 | 26 | 26 | - | 6.5 |
| Operating Systems | 19,5 | - | 39 | - | 5.5 |
| Usability | 19,5 | - | 26 | - | 5 |

T - Theoretical; TP - Theoretical and Practical; PL - Practical and laboratorial; O - Other types

2nd Year - 2nd Semester

| Course unit | Contact hours | | | | ECTS |
|--|---------------|----|----|----|------|
| | T | TP | PL | O | |
| Internet Applications II | 19,5 | - | 39 | - | 5 |
| DataBase Systems I | 19,5 | 26 | 26 | - | 6 |
| Software Engineering I | 19,5 | - | 26 | - | 4.5 |
| Programming for Mobile Devices | 19,5 | - | 39 | - | 5 |
| Integrated Project | - | - | 52 | 26 | 5 |
| Communication Networks II | 19,5 | - | 26 | - | 4.5 |

T - Theoretical; TP - Theoretical and Practical; PL - Practical and laboratorial; O - Other types

3rd Year - 1st Semester

| Course unit | Contact hours | | | | ECTS |
|--|---------------|----|----|---|------|
| | T | TP | PL | O | |
| DataBase Systems II | 19,5 | - | 52 | - | 6 |
| Complements of Operating Systems | 19,5 | - | 39 | - | 5 |
| Communication Networks III | 19,5 | - | 26 | - | 4.5 |
| ICT Security | 19,5 | - | 26 | - | 4.5 |
| Distributed Systems | 19,5 | - | 39 | - | 5 |
| Embedded Systems | 19,5 | - | 39 | - | 5 |

T - Theoretical; **TP** - Theoretical and Practical; **PL** - Practical and laboratorial; **O** - Other types

3rd Year - 2nd Semester

| Course unit | Contact hours | | | | ECTS |
|--|---------------|----|----|------|------|
| | T | TP | PL | O | |
| Entrepreneurship and Business Management | - | 26 | - | - | 3 |
| Software Engineering II | 19,5 | - | 52 | - | 6 |
| Artificial Intelligence | 19,5 | - | 26 | - | 5 |
| Project Work | - | - | - | 45,5 | 16 |

T - Theoretical; **TP** - Theoretical and Practical; **PL** - Practical and laboratorial; **O** - Other types

Scientific areas

| Areas | ECTS |
|-------------------------------|------------|
| Computer Science | 151 |
| Electronics and Automation | 6 |
| Management and Administration | 3 |
| Mathematics | 20 |
| Total | 180 |