University of Pitesti **APPROVED**

Faculty of Electronics, Communications and Computers **In Senate session**

Bachelor degree program: Applied Electronics  **Date ................................**

Fundamental domain: Engineering Sciences

Field of License: Electronics and Telecommunications Engineering **PRESIDENT OF THE SENATE**

Duration: 4 years **Conf.univ.dr. Nicolae BRINZEA**

The form of education: **F**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CURRICULUM** Available in academic year 2015/2016 | | | | | | | |  |
|  | **Year:** | **I** | **Semester:** | | | | **I (1)** | 14 Weeks | |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 1 | Mathematical Analysis | 36.04.F.1.O.2.01 | 2 | 2 |  |  | 5 | E | 64 |
| 2 | Linear Algebra, Analitical and Differential Geometry | 36.04.F.1.O.2.02 | 2 | 2 |  |  | 4 | E | 40 |
| 3 | Computer Assisted Graphics | 36.04.F.1.O.2.03 | 1 | 1 | 2 |  | 3 | V | 16 |
| 4 | Physics | 36.04.F.1.O.2.04 | 2 | 2 | 1 |  | 5 | E | 50 |
| 5 | Applied Informatics | 36.04.F.1.O.2.05 | 2 |  | 2 |  | 4 | E | 40 |
| 6 | Materials for Electronics | 36.04.D.1.O.2.06 | 2 |  | 1 |  | 5 | E | 78 |
| 7 | Phisical Education I | 36.04.C.1.O.2.07 |  | 1 |  |  | 1 | V | 10 |
| **TOTAL compulsory discipline(O)** | | | **11** | **8** | **6** |  | **27** |  | **298** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 7 | English Language I | 36.04.C.1.A.2.08 |  | 1 |  |  | 3 | V | 58 |
| 8 | French Language I | 36.04.C.1.A.2.09 |
| **TOTAL optional disciplines(A)** | | |  | **2** |  |  | **3** |  | **58** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **11** | **9** | **6** |  | **30** |  | **356** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| 9 | Matlab Programming | 36.04.S.1.L.2.10 | 1 |  | 2 |  | 3 | C | 30 |
| **TOTAL Free choice disciplines(L)** | | | **1** |  | **2** |  | **3** |  | **30** |
|  | **Year:** | **I** | **Semester:** | | | | **II (2)** | 14 Weeks | |
|  |  |  |  |  |  |  |  |  |  |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 11 | Advanced Matematics for Engineers | 36.04.F.2.O.2.11 | 2 | 2 |  |  | 4 | E | 40 |
| 12 | Numerical methods | 36.04.F.2.O.2.12 | 2 |  | 2 |  | 4 | E | 40 |
| 13 | Computer programming and programming languages | 36.04.F.2.O.2.13 | 2 |  | 2 | 1 | 5 | E | 50 |
| 14 | Basics of Electrotechnics | 36.04.D.2.O.2.14 | 2 | 1 | 1 |  | 4 | E | 40 |
| 15 | Pasive Components and Circuits | 36.04.D.2.O.2.15 | 2 |  | 1 |  | 4 | E | 54 |
| 16 | Statistics andexperimental data | 36.04.F.2.O.2.16 | 1 |  | 1 |  | 3 | V | 44 |
| 17 | Electrochemistry | 36.04.F.2.O.2.17 | 1 |  | 1 |  | 2 | V | 20 |
| 18 | Phisical Education II | 36.04.C.2.O.2.18 |  | 1 |  |  | 1 | V | 10 |
| **TOTAL compulsory discipline(O)** | | | **12** | **4** | **8** | **1** | **27** |  | **298** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 19 | English Language II | 36.04.C.2.A.2.19 |  | 1 |  |  | 3 | V | 58 |
| 20 | French Language II | 36.04.C.2.A.2.20 |
| **TOTAL optional disciplines(A)** | | |  | **1** |  |  | **3** |  | **58** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **12** | **5** | **8** | **1** | **30** |  | **356** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| 21 | European Projects | 36.04.C.2.A.2.21 |  | 1 |  |  | 2 | V | 34 |
| **TOTAL Free choice disciplines(L)** | | |  | **1** |  |  | **2** |  | **34** |

RECTOR, DEAN, DIRECTOR OF DEPARTMENT

Prof. univ. dr. Sebastian PARLAC Prof. univ. dr. ing. Nicu BIZON Prof. univ. dr. ing. Ioan LIŢĂ

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Faculty of Electronics, Communications and Computers **In Senate session**

Bachelor degree program: Applied Electronics  **Date ................................**

Fundamental domain: Engineering Sciences

Field of License: Electronics and Telecommunications Engineering **PRESIDENT OF THE SENATE**

Duration: 4 years **Conf.univ.dr. Nicolae BRINZEA**

The form of education: **F**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CURRICULUM** | | | Available in academic year 2016-2017 | | | | | |
|  |  |  |  |  |  |  |  |  |  |
|  | **Year:** | **II** | **Semester:** | | | | **I (3)** | 14 Weeks | |
|  |  |  |  |  |  |  |  |  |  |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 22 | Theory of Electromagnetic Field | 36.04.D.3.O.2.22 | 2 | 1 | 1 |  | 5 | E | 64 |
| 23 | Object Oriented Programming | 36.04.D.3.O.2.23 | 2 |  | 1 |  | 3 | E | 30 |
| 24 | Electronic Devices | 36.04.D.3.O.2.24 | 2 | 1 | 1 |  | 5 | E | 64 |
| 25 | Semnals and Systems | 36.04.D.3.O.2.25 | 2 | 1 | 1 |  | 4 | E | 40 |
| 26 | Information transmission theory | 36.04.D.3.O.2.26 | 2 |  | 1 |  | 4 | E | 54 |
| 27 | CAD techniques for implementing electronic modules | 36.04.D.3.O.2.27 | 2 |  | 2 |  | 3 | V | 16 |
| 28 | Labview Programming | 36.04.S.3.O.2.28 | 1 |  | 1 |  | 3 | V | 44 |
| **TOTAL compulsory discipline(O)** | | | **13** | **3** | **8** |  | **27** |  | **312** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 29 | CAD foradvanced graphics processing | 36.04.F.3.A.2.29 | 1 |  | 1 |  | 3 | V | 44 |
| 30 | Descriptive geometry | 36.04.F.3.A.2.30 |
| **TOTAL optional disciplines(A)** | | | **1** |  | **1** |  | **3** |  | **44** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **14** | **3** | **9** |  | **30** |  | **356** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| 31 | Mechatronics | 36.04.S.3.L.2.31 | 1 |  | 1 |  | 3 | C | 44 |
| 32 | Phisical Education III | 36.04.C.3.L.2.32 |  | 1 |  |  | 1 | V | 10 |
| 33 | English Language III | 36.04.C.3.L.2.33 |  | 2 |  |  | 2 | V | 20 |
| 34 | French Language III | 36.04.C.3.L.2.34 |  | 2 |  |  | 2 | V | 20 |
| **TOTAL Free choice disciplines(L)** | | | **1** | **5** | **1** |  | **8** |  | **94** |
|  |  |  |  |  |  |  |  |  |  |
|  | **Year:** | **II** | **Semester:** | | | | **II (4)** | 14 Weeks | |
|  |  |  |  |  |  |  |  |  |  |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 35 | Measurements in Electronics and Telecommunications | 36.04.D.4.O.2.35 | 2 |  | 2 |  | 4 | E | 40 |
| 36 | Fundamental Electronic Circuits | 36.04.D.4.O.2.36 | 2 |  | 2 | 1 | 5 | E | 50 |
| 37 | Digital Integrated Circuits | 36.04.D.4.O.2.37 | 2 |  | 1 | 1 | 5 | E | 64 |
| 38 | Desion and Estimation on Information Processing | 36.04.D.4.O.2.38 | 2 | 1 |  |  | 3 | E | 30 |
| 39 | SPICE models | 36.04.D.4.O.2.39 | 2 |  | 1 |  | 3 | V | 30 |
| 40 | Analysis and Synthesis of Circuits | 36.04.D.4.O.2.40 | 2 | 1 | 1 |  | 4 | E | 40 |
| 41 | Practice II | 36.04.D.4.O.2.41 | 120hours | | | | 3 | C | 12 |
| **TOTAL compulsory discipline(O)** | | | **12** | **2** | **7** | **2** | **27** |  | **266** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 42 | Database | 36.04.D.4.A.2.42 | 1 |  | 2 |  | 3 | V | 30 |
| 43 | Operating systems | 36.04.D.4.A.2.43 |
| **TOTAL optional disciplines(A)** | | | **1** |  | **2** |  | **3** |  | **30** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **13** | **2** | **9** | **2** | **30** |  | **296** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| 44 | Phisical Education IV | 36.04.C.4.L.2.44 |  | 1 |  |  | 1 | V | 10 |
| 45 | English Language IV | 36.04.C.4.L.2.45 |  | 2 |  |  | 2 | V | 20 |
| 46 | French Language IV | 36.04.C.4.L.2.46 |  | 2 |  |  | 2 | V | 20 |
| **TOTAL Free choice disciplines(L)** | | |  | **5** |  |  | **5** |  | **50** |

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Faculty of Electronics, Communications and Computers **In Senate session**

Bachelor degree program: Applied Electronics  **Date ................................**

Fundamental domain: Engineering Sciences

Field of License: Electronics and Telecommunications Engineering **PRESIDENT OF THE SENATE**

Duration: 4 years **Conf.univ.dr. Nicolae BRINZEA**

The form of education: **F**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **CURRICULUM** | Available in academic year 2017-2018 | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
|  | **Year:** | **III** | **Semester:** | | | | **I (5)** | 14 Weeks | |
|  |  |  |  |  |  |  |  |  |  |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 47 | Analog Integrated Circuits | 36.04.D.5.O.2.47 | 2 |  | 2 |  | 5 | E | 64 |
| 48 | Architecture of Microprocessors | 36.04.D.5.O.2.48 | 2 |  | 2 |  | 6 | E | 88 |
| 49 | Electronicmeasurement systems | 36.04.S.5.O.2.49 | 2 |  | 2 |  | 4 | E | 40 |
| 50 | Java Programming | 36.04.S.5.O.2.50 | 1 |  | 1 |  | 3 | V | 44 |
| 51 | Power Electronics | 36.04.D.5.O.2.51 | 2 |  | 2 |  | 4 | E | 40 |
| **TOTAL compulsory discipline(O)** | | | **9** |  | **9** |  | **22** |  | **276** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 52 | Systems Theory | 36.04.S.5.A.2.52 | 2 |  | 2 |  | 4 | E | 40 |
| 53 | Basics of Robotics | 36.04.S.5.A.2.53 |
| 54 | Analog and Digital Communications | 36.04.S.5.A.2.54 | 2 |  | 2 |  | 4 | E | 40 |
| 55 | Communication Techniques | 36.04.S.5.A.2.55 |
| **TOTAL optional disciplines(A)** | | | **4** |  | **4** |  | **8** |  | **80** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **13** |  | **13** |  | **30** |  | **356** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| 56 | Transducers | 36.04.S.6.L.2.56 | 2 |  | 2 |  | 3 | V | 16 |
| 57 | Bioinformatics | 36.04.S.5.L.2.57 | 2 |  | 2 |  | 3 | V | 16 |
| **TOTAL Free choice disciplines(L)** | | | **4** |  | **4** |  | **6** |  | **32** |
|  |  |  |  |  |  |  |  |  |  |
|  | **Year:** | **III** | **Semester:** | | | | **II (6)** | 14 Weeks | |
|  |  |  |  |  |  |  |  |  |  |
| **No.** | **Discipline** | | **Hours / Week** | | | | **PC** | **Eval.** | **Study time total** |
| **Title** | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | |  |
| 58 | Automation in Electronics and Telecommunications | 36.04.D.6.O.2.58 | 2 |  | 1 |  | 3 | E | 30 |
| 59 | Microsystems with microprocessors and microcontrollers | 36.04.S.6.O.2.59 | 2 |  | 2 | 1 | 5 | E | 64 |
| 60 | Basics of Data Acquisition System | 36.04.D.6.O.2.60 | 2 |  | 2 | 1 | 5 | E | 64 |
| 61 | Television | 36.04.D.6.O.2.61 | 2 |  | 2 |  | 4 | E | 40 |
| 62 | Communication Systems | 36.04.D.6.O.2.62 | 2 |  | 2 |  | 4 | E | 40 |
| 63 | Microwaves | 36.04.D.6.O.2.63 | 2 |  | 1 |  | 3 | E | 30 |
| 64 | Practice III | 36.04.D.6.O.2.64 | 120 hours | | | | 3 | C | 12 |
| **62** | | | **12** |  | **10** | **2** | **27** |  | **280** |
| **Optional disciplines(A)** | | | | | | | | |  |
| 65 | Management and organization of company | 36.04.C.6.A.2.65 | 1 | 1 |  |  | 3 | V | 44 |
| 66 | Economy | 36.04.C.6.A.2.66 |
| **TOTAL optional disciplines(A)** | | | **1** | **1** |  |  | **3** |  | **44** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | **13** | **1** | **10** | **2** | **30** |  | **324** |
| **TOTAL hours per week** | | | **26** | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | |  |
| **TOTAL Free choice disciplines(L)** | | |  |  |  |  |  |  |  |

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The form of education: **F**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **CURRICULUM** Available in academic year 2018/2019 | | | | | | | |  | |
|  | **Year:** | | **IV** | **Semester:** | | | | **I (7)** | 14 Weeks | | |
|  |  | |  |  |  |  |  |  |  | |  |
| **No.** | **Discipline** | | | **Hours / Week** | | | | **PC** | **Eval.** | | **Study time total** |
| **Title** | | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | | | |  |
| 67 | Optoelectronics | | 36.04.D.7.O.2.67 | 2 |  | 1 |  | 4 | E | | 54 |
| 68 | Intelligent Controll Systems | | 36.04.S.7.O.2.68 | 2 |  | 1 |  | 4 | E | | 54 |
| 69 | Software Engineering for Industrial Process Control | | 36.04.S.7.O.2.69 | 2 |  | 2 |  | 4 | E | | 40 |
| 70 | Medical Electronics | | 36.04.S.7.O.2.70 | 2 |  | 1 |  | 4 | C | | 54 |
| 71 | Electronic power converters | | 36.04.S.7.O.2.71 | 2 |  | 2 | 1 | 4 | E | | 26 |
| 72 | Reconfigurablecircuits | | 36.04.S.7.O.2.72 | 2 |  | 2 |  | 4 | P | | 40 |
| 73 | Design activity | | 36.04.S.7.O.2.73 |  |  |  | 2 | 3 | P | | 44 |
| **TOTAL compulsory discipline(O)** | | | | **12** |  | **9** | **3** | **27** |  | | **312** |
| **Optional disciplines(A)** | | | | | | | | | | |  |
| 74 | Quality Engineering for Electronics | | 36.04.S.7.A.2.74 | 1 | 1 |  |  | 3 | V | | 58 |
| 75 | Reliability of electronic systems | | 36.04.S.7.A.2.75 |
| **TOTAL optional disciplines(A)** | | | | **1** |  | **1** |  | **3** |  | | **58** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | | **13** | **1** | **9** | **3** | **30** |  | | **370** |
| **TOTAL hours per week** | | | | **26** | | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | | | |  |
| 76 | Automotive electronics | | 36.04.S.7.L.2.76 | 2 |  | 2 |  | 3 | V | | 16 |
| **TOTAL Free choice disciplines(L)** | | | | **2** |  | **2** |  | **3** |  | | **16** |
|  |  | |  |  |  |  |  |  |  | |  |
|  | **Year:** | | **IV** | **Semester:** | | | | **II (8)** | 14 Weeks | | |
| **No.** | **Discipline** | | | **Hours / Week** | | | | **PC** | **Eval.** | | **Study time total** |
| **Title** | | **Code** | **C** | **S** | **L** | **P** |
| **Compulsory discipline(O)** | | | | | | | | | | |  |
| 77 | Programmable logic controllers | | 36.04.S.8.O.1.77 | 2 |  | 2 |  | 4 | E | | 40 |
| 78 | Industrial Power Converters | | 36.04.S.8.O.1.78 | 2 | 1 | 2 |  | 4 | E | | 40 |
| 79 | Industrial robotics | | 36.04.S.8.O.1.79 | 2 |  | 2 |  | 4 | E | | 40 |
| 80 | Economic and industrial legislation | | 36.04.C.8.O.1.80 | 1 |  |  |  | 1 | V | | 10 |
| 81 | Design-research activity | | 36.04.S.7.O.2.81 |  |  |  | 4 | 3 | P | | 72 |
| 82 | Practice for graduation project preparation | | 36.04.S.8.O.1.82 | 60 hours (2 Weeks) | | | | 6 | P | | 40 |
|  | | | | **7** | **1** | **6** | **4** | **22** |  | | **262** |
| **Optional disciplines(A)** | | | | | | | | | | |  |
| 83 | Design and Technology for Electronic Systems | | 36.04.S.8.A.2.83 | 2 |  | 2 |  | 4 | V | | 40 |
| 84 | Protection techniques to the electromagnetic perturbation | | 36.04.S.8.A.2.84 |
| 85 | Sensors and actuators | | 36.04.S.8.A.1.85 | 3 |  | 1 |  | 4 | V | | 40 |
| 86 | Electrical Machines | | 36.04.S.8.A.1.86 |
| **TOTAL optional disciplines (A)** | | | | **5** |  | **3** |  | 8 |  | | **80** |
| **TOTAL compulsory discipline(O) and optional disciplines(A)** | | | | **12** | **1** | **9** | **4** | **30** |  | | **342** |
| **TOTAL hours per week** | | | | **26** | | | | | | |  |
| **Free choice disciplines(L)** | | | | | | | | | | |  |
| 87 | Graduation exam | | 36.04.S.8.L.1.087 | 10 | | | | 10 | E | | 230 |
| **TOTAL Free choice disciplines(L)** | | | |  |  |  |  | **10** |  | | **230** |

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