**APPROVED**

**TheSenate meetingdated**

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**PRESIDENT OF THE SENATE**

**Assoc. Prof. Nicolae BRÎNZEA**

**CURRICULUM**

**the academic year2014-2015**

**University of Pitesti**

|  |  |
| --- | --- |
| ***Master's degree program*** | **Modeling, SimulationandDesign ofElectromechanical Systems(MSDES)** |
| ***Domeniul fundamental*** | **Engineering Sciences** |
| ***Domeniul de master*** | **Electrical Engineering** |
| ***Faculty*** | **ELECTRONICS, COMUNICATIONS AND COMPUTER SCIENCE** |
| ***Duration*** | **3 semesters** |
| ***Form of teaching:*** *frequency(F) /low frequency(IFR) /distance(ID)* | **frequency(F)** |

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| **UNIVERSITY OF PITESTI** | |  | |  | | **APPROVED** | | | |  | |  | |  |  |  |
| **ELECTRONICS, COMUNICATIONS AND COMPUTER SCIENCE FACULTY** | | | |  | | **TheSenate meetingdated** | | | | | | | | |  |  |
| **Field of study: ELECTRICAL ENGINEERING** | |  | |  | |  | |  | |  | |  | |  |  |  |
| **Master: Modeling, SimulationandDesign ofElectromechanical Systems(MSDES)** | |  | |  | | **PRESIDENT OF THE SENATE,** | | | | | | | | |  |  |
|  |  |  | |  | | **Assoc.Prof. Nicolae BRÎNZEA** | | | | | | | | |  |  |
|  | **CURRICULUM** | | | | | | | | | | | | | |  |  |
|  |  |  | *Academic year: 2014-2015* | | | | | | | | | | | |  |  |
|  | **Anul:** | **I** | **Semester:** | | | | | | | | **I (1)** | | /14 week. | |  |  |
| **Nr. crt.** | **Discipline** | | **Hours/week** | | | | | | | | **PC** | | **Eval. form.** | | Indiv. study. total | Discipline type |
| **Name** | **Code** | **C** | | **S** | | **L** | | **P** | |
| 1 | *Complements of Mathematics* | 36.04.F1.O.16.01 | 2 | | 1 | |  | |  | | 5 | | E | | 28 | Depth Study |
| 2 | *Special Aspects of Electrotechnics* | 36.04.S1.O.16.02 | 2 | | 1 | |  | |  | | 7 | | E | | 56 | Depth Study |
| 3 | *Programmable Electronic Systems* | 36.04.D1.O.16.03 | 1 | |  | | 2 | |  | | 6 | | V | | 42 | Advancedknowledge |
| 4 | *Modeling and simulation ofelectromechanical systems* | 36.04.S1.O.16.04 | 2 | |  | | 1 | |  | | 8 | | E | | 70 | Depth Study |
| 5 | *Management of Research and Scientific Communication* | 36.04.S1.O.16.05 | 1 | |  | |  | | 1 | | 4 | | C | | 28 | Synthesis |
| **TOTAL** | | | **8** | | **2** | | **3** | | **1** | | **30** | |  | | **224** |  |
|  | **Totalhours per week:** | | **14** | |  | |  | |  | |  | |  | |  |  |
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|  | **Anul:** | **I** | **Semester:** | | | | | | | | **II (2)** | | /14 week | |  |  |
| **Nr. crt.** | **Discipline** | | **Hours/week** | | | | | | | | **PC** | | **Eval. form.** | | Indiv. study. total | Discipline type |
| **Name** | **Code** | **C** | |  | |  | |  | |
| 6 | *Electricactuators* | 36.04.S2.O.16.06 | 2 | |  | | 1 | |  | | 7 | | E | | 56 | Depth Study |
| 7 | *Computer aided designof electrical machines* | 36.04.S2.O.16.07 | 2 | |  | | 1 | | 1 | | 8 | | E | | 56 | Advancedknowledge |
| 8 | *Computer aided designofmechatronic systems* | 36.04.S2.O.16.08 | 2 | |  | | 1 | | 1 | | 8 | | E | | 56 | Synthesis |
| 9 | *AutomaticDrivingArchitectures* | 36.04.S2.O.16.09 | 2 | |  | | 1 | |  | | 7 | | E | | 56 | Depth Study |
| **TOTAL** | | | **8** | | **0** | | **4** | | **2** | | **30** | |  | | **224** |  |
|  | **Totalhours per week:** | | **14** | |  | |  | |  | |  | |  | |  |  |
|  |  |  |  | |  | |  | |  | |  | |  | |  |  |
|  |  |  | *Academic year: 2014-2015* | | | | | | | | | | | |  |  |
|  | **Anul:** | **II** | **Semester:** | | | | | | | | **I (3)** | | /14 week | |  |  |
| **Nr. crt.** | **Discipline** | | **Hours/week** | | | | | | | | **PC** | | **Eval. form.** | | Indiv. study. total | Discipline type |
| **Name** | **Code** | **C** | |  | |  | |  | |
| 10 | *Artificial IntelligenceinElectromechanical System Control* | 36.04.S3.O.16.10 | 1 | |  | | 1 | |  | | 7 | | E | | 70 | Synthesis |
| 11 | *CADinElectrical Engineering* | 36.04.S3.O.16.11 | 1 | |  | | 1 | |  | | 6 | | E | | 56 | Depth Study |
| 12 | *Industrial Software* | 36.04.S3.O.16.12 | 2 | |  | | 2 | |  | | 7 | | E | | 42 | Synthesis |
| 13 | *Renewable Energy Sources* | 36.04.D3.O.16.13 | 2 | |  | | 2 | |  | | 7 | | E | | 42 | Advancedknowledge |
| 14 | *Dissertation Research Design Development Activity* | 36.04.D3.O.16.14 |  | |  | |  | | 2 | | 3 | | C | | 14 | Synthesis |
| **TOTAL** | | | **6** | | **0** | | **6** | | **2** | | **30** | |  | | **224** |  |
|  | **Totalhours per week:** | | **14** | |  | |  | |  | |  | |  | |  |  |
|  |  |  |  | |  | |  | |  | |  | |  | |  |  |
| Rector, | | Dean, |  | |  | |  | | DepartmentDirector, | | | | | | |  |
| Prof. Ionel DIDEA | | Prof. Nicu BIZON | | |  | |  | | Prof. Dr. Ing. Ioan LITA | | | | | | |  |
|  | |  | | |  | |  | | ECTS Coordinator  Assoc. Prof.  Eugen. DIACONESCU | | | | | | |  |

### **GENERALBALANCE SHEETI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Nr. crt.** | **Discipline** | **Total** | | | |
| **An I** | **An II** | **hours** | **%** | |
| 1 | Required | 392 | 196 | 588 | 100 | |
| **TOTAL** | | **392** | **196** | **588** | 100 | |

### **GENERALBALANCE SHEETII**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Nr. crt.** | **Discipline** | **Total** | | | |
| **An I** | **An II** | **hours** | **%** |
| 1 | Depth Study | 210 | 28 | 238 | 40% |
| 2 | Advancedknowledge | 98 | 56 | 154 | 26% |
| 3 | Synthesis | 84 | 112 | 196 | 34% |
| **TOTAL** | | **392** | **196** | **588** | **100%** |

RECTOR, DEAN,

Prof. Ionel DIDEA Prof. Nicu BIZON

DEPARTAMENT DIRECTOR, STUDIESPROGRAMCOORDINATOR,

Prof. Ioan LIŢĂ Assoc. Prof. Eugen DIACONESCU