Master Program: Electronics and Nanoelectronics

Field of Studies: Electronic devices

Years of Studies: 2

Language of Training: Russian

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| --- | --- | --- | --- | --- |
| № | Subject | Semester | Hours | Credits |

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| --- | --- | --- | --- | --- |
| М.1.1.1 | Mathematical modeling of devices and systems | 1 | 144 | 4 |
| М.1.1.2 | [Basics of Scientific Research](https://www.multitran.com/m.exe?s=Basics+of+Scientific+Research&l1=1&l2=2) |  2 | 108  |  3 |
| М.1.1.3 | CAD in electronics | 3 | 108 | 3 |
| М.1.1.4 | Securing information networks | 3 | 108 | 3 |
| М.1.1.5 | Commercialization of research and development results | 3 | 72 | 2 |
| М.1.1.6 | Foreign Language for research |  72 | 2  | 2  |
| М.1.2.1 | Business communication language |  1 | 72  | 2  |
| М.1.2.2 | Lighting electronic devices | 1 | 180 | 5 |
| М.1.2.3 | Sensors in electronic devices |  2 | 180  | 5  |
| М.1.2.4 | Design of electronic component base |  1 | 180  | 5  |
| М.1.2.5 | Quantum and optoelectronic devices | 2  | 180  | 5  |
| М.1.2.6 | Microprocessor technology |  3 | 108  | 3  |
| М.1.2.7 | Development and application of x-ray devices and accelerators | 3 | 108 | 3 |
| M.1.2.8 | Actual problems of modern electronics and nanoelectronics | 3 | 144 | 4 |
| М.1.3.1.1 | Measurements in Electronics | 1 | 180 | 5 |
| М.1.3.1.2 | Reliability of electronic devices | 1 | 180 | 5 |
| М.1.3.2.1 | Vacuum and plasma devices | 2 | 216 | 2 |
| М.1.3.2.2 | Processes of micro and nanotechnology | 2 | 216 | 2 |
| М.2.1.1. | Research work |  1-4 |  1188 | 33 |
| М.1.3.2.2 | Teaching training | 2 | 216 | 6 |
| М.1.3.2.2 | Manufacturing practice  | 4 | 216 | 6 |
| М.1.3.2.2 | Undergraduate practice | 4 | 216 | 6 |
|  | **Total** |  | **4320** | **120** |