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| MINISTRY OF EDUCATION AND STAUES OF RUSSIA |
| Federal State Budgetary Educational InstitutionHigher education**MIREA – Russian Technological University****RTU MIREA** |

Department of Nanoelectronics

**Guidelines for the implementation of** **courses**

2021

1. **General Questions**
	1. Coursework is a qualifying work to determine the student's ability to solve specific problems and the ability to work with literature. This is an independent work of the student, which is performed on an individual task.
	2. The task is issued and the teacher leading the practical classes is the head of the work.
	3. In the process of completing the course work, the student can receive advice outside the auditorium time on the days appointed by the head of the work.
2. **Content and design of the course work**
	1. The calculation and explanatory note is the main document of the course work and should contain exhaustive material on the implementation of the task.
* **The explanatory note should include:**
* Title page (printed in the form of a letterhead; see Annex);
* The option number and the full text of the task.
* Theoretical partcontaining *brief and clear* answerstothequestions ofthe task.
* The calculation part, including a *detailed* description of the solution of the problem and a physical analysis of the results obtained;
* List of references;
* Applications (if necessary).
	1. The solution to the problem should be set out clearly and in detail, with all intermediate calculations and transformations. The basic formulas should be numbered. The application includes auxiliary material, which, in the opinion of the author, is necessary to understand the progress of solving the problem, but clutters up the main text of thework.
	2. It should be borne in mind that the design of the course work seriouslybut affects the assessment. **Sloppy workis** **assessedandis unsatisfactory** **regardless of the content.**
* **General requirements for the design of the work:**
	+ - * The calculation and explanatory note for the course work is drawn up on standard white paper of A 4 format (210x297 mm); the textisplaced on one side of each sheet.

 Calculation and explanatory note to the course work

 must be bound or fastened

 Stapler. *(It is also allowed to use*

 *special folders for term papers)*

 The text is printed.

The use of scanned, photocopied, etc. text, formulas, drawings is not allowed.

* + - * Drawings and graphs for the course work should be made personally by the student using standard computer graphics packages (Mathematica, Mathcad, Corel Draw, Origin, etc.). Drawings and graphs should be made taking into account the requirements of GOST. All drawings and graphs should have numbers and explanations.
1. **Links**
	1. References in the text to literary sources are given in the form of an indication of the serial number on the list of references, enclosed in square brackets. For example: "[4]", "[5-9]" or "[1, 4, 18]".
	2. References to formulas indicate the serial number of the formula in parentheses. For example, in formula (3) ...
	3. The list of references should contain a list of sources,

used in the performance of work. It must be issued in accordance with the requirements of GOST.

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| Department of Nanoelectronics |

**COURSEWORK**

**in the discipline \_\_**

(name of discipline)

**Coursework topic \_\_**

**Student \_\_**

 (Name) (signed)

**Group \_\_**

**The work is presented for protection** "\_\_\_\_" \_\_\_\_\_

**Admitted to protection** "\_\_" \_\_\_\_\_\_

Moscow, 20\_\_\_ g

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| Institute of Physics and Technology |
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**Claim**

Deputy. Head of the Department of NE

\_\_\_\_\_

"\_\_\_" \_\_

**Task**

**to perform coursework on discipline**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student: \_\_

Group: \_\_

**Subject \_\_**

**Source data: \_\_**

**List of issues to be developed:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Term of submission to the defense of the course work: to** "\_\_\_" \_\_\_\_\_

Assignment forcourse work

issued "\_\_\_" \_\_\_\_

Assignment for coursework

received "\_\_\_" \_\_\_\_\_\_\_

**Protocol**

protection of coursework

Student(s) \_\_

NAME

in the discipline \_\_

subject \_\_

1. General characteristics of the course work

|  |  |  |  |
| --- | --- | --- | --- |
| **Criterion** | **Yes** | **No** | **Not entirely** |
| 1. Compliance with the theme of work |  |  |  |
| 2. Compliance with the task |  |  |  |
| 3. Completeness of the answer totheoretical questions |  |  |  |
| 4. Completeness of the solutionof the problem |  |  |  |
| 5.Completeness of conclusions |  |  |  |
| 6. Correctness ofthecourse work |  |  |  |

1. Characteristics of answers to questions on the defense

|  |  |  |  |
| --- | --- | --- | --- |
| **Criterion** | **Yes** | **No** | **Not entirely** |
| 1. Completeness of the answer |  |  |  |
| 2. Correctness of the answer |  |  |  |
| 3. Depth of knowledge |  |  |  |
| 4. Clarity of wording |  |  |  |
| 5. Degree of understanding of problems |  |  |  |

**Final rating: satisfactory, good, excellent**

Signatures of the members of the commission: