MINISTRY OF SCIENCE AND HIGHER EDUCATION OF RUSSIAN FEDERATION

**ITMO University**

**DETAILED SEMINAR OUTLINE**

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

*(seminar title according to the curriculum, without numerical code)*

| **Seminar type** |   |
| --- | --- |
|  *(project seminar/research seminar)*  |
| **Subject area(s)** |   |
|  |  *(code and name of the subject area(s))* |   |
| **Graduate’s degree** |   |   |
|  *(Bachelor’s/Master’s)*  |   |
| **Educational program** |  |   |
|   |  *(name of educational program, without numerical code)* |   |
| **Form of studies** | intramural |   |
|  |   |

| **Course workload** | **Semester** | **Assessment format****(exam, graded pass/fail test, or pass/fail test)** | **In-class hours** | **Lab classes (hours)** | **Practical****classes (hours)** | **Individual study (hours)** |
| --- | --- | --- | --- | --- | --- | --- |
| **credits** | **hours** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**St. Petersburg**

**202X**

**DETAILED SEMINAR OUTLINE**

Developed by:

structural unit

*(the name of the structural unit that developed the seminar outline)*

Full name, degree, academic title (if applicable), signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Full name, degree, academic title (if applicable), signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1. SEMINAR GOALS**

The goal of the seminar is to achieve the following learning outcomes:

| **Name and code of competency** | **Competency assessment indicator(s) and their code(s)** | **Projected results of training** |
| --- | --- | --- |
| *Choose suitable competencies for this subject from the general description of the educational program* | *Name at least one indicator*  | *List the knowledge, competencies, and skills associated with each chosen indicator*Knowledge:- …;Competencies:- …;Skills:- … |
| *CC-1* | *CC-1.1**CC-1.2**CC-1.3* | *Knowledge:**Competencies:**Skills:**Knowledge:**Competencies:**Skills:**Knowledge:**Competencies:**Skills:* |
| … | … |  |

**2. SEMINAR STRUCTURE AND CONTENTS**

| **Seminar section No.** | **Seminar section name** | **Allocated time (hours)** |
| --- | --- | --- |
| **In-class hours** | **Lab classes** | **Practical classes** | **Individual study** | **Total**  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **TOTAL:** |  |  |  |  |  |

| **Seminar section no.** | **Seminar section name** | **Contents***(key topics studied as part of this section)* |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |
| … |  |  |
|  |  |  |

**3. SEMINAR MATERIALS**

References:

1. …
2. …
3. …

*(name two or three sources from digital library systems, such as Lan, Yurait, etc., that are available at ITMO University)* [*http://books.ifmo.ru/*](http://books.ifmo.ru/) *;* [*https://lib.ifmo.ru/*](https://lib.ifmo.ru/)

*Example:*

*1. Теоретические основы электротехники. Нелинейные электрические цепи. Электромагнитное поле [Электронный ресурс]: учеб. пособие / Г.И. Атабеков [и др.]. — Электрон. дан. — Санкт-Петербург: Лань, 2014. — 432 с. — Режим доступа: https://e.lanbook.com/book/644. — Загл. с экрана.*

**4. PROJECT IMPLEMENTATION**

**Description of project implementation:**

* project type (individual/group project)
* topic selection procedure

*Possible project topics:*

*Topic 1 \_\_\_*

*Topic 2 \_\_\_*

*Topic 3 \_\_\_*

*…*

*Topic X \_\_\_*

**Project implementation outline:**

| **Stage** | **Description** | **Time period (weeks)** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Project requirements:**

| **Requirements** | **Yes/No** |
| --- | --- |
| 1. The project’s contents correspond to its objectives |  |
| 2. The project is coherent and of high quality |  |
| 3. The project was implemented autonomously, the topic is covered thoroughly, and recommended sources were used |  |
| 4. The conclusions are reasonable and substantiated |  |

The project should correspond to no less than three requirements.

*Other suitable requirements can be added*

**5. PROJECT DEFENSE**

*Project defense procedure*

***Requirements for the contents and structure of the presentation***

1. *Format*
2. *Volume*
3. *Contents of title page*
4. *Presentation of information*
5. *Requirements for illustration captions*
6. *Conclusions*

**Evaluation criteria:**

| **Grade** | **Criteria** |
| --- | --- |
| «5» (excellent) | 1. Research was done autonomously, is scientific and practical, and presents novel ideas.
2. The student has demonstrated their familiarity with relevant theory, has analytical skills, can substantiate their point of view, and make conclusions.
3. The information is well-put, logical, and consistent.
4. The presentation corresponds to the requirements.
5. During the defense, the student presented their research results briefly and comprehensively, as well as answered questions adequately.
 |
| «4» (good) | 1. Research was done autonomously, is scientific and practical, and presents novel ideas.
2. The student has demonstrated their familiarity with relevant theory but was not fully successful in proving their analytical skills, as well the ability to substantiate their point of view and make conclusions.
3. Not all the information is well-put and logical.
4. There are minor problems with the design of the presentation.
5. During the defense, the student presented their research results briefly and comprehensively but had problems answering questions.
 |
| «3» (satisfactory) | 1. Research doesn’t include any new ideas.
2. The student doesn’t quite comprehend the relevant theory and has problems analyzing, supporting their point of view, and making conclusions.
3. Not all the information is well-put and logical.
4. There are minor problems with the design of the presentation.
5. During the defense, the student had problems presenting research results and answering questions.
 |
| «2» (unsatisfactory) | 1. The research was not carried out in full / its results were not fully analyzed / etc.
2. No conclusions were made or they were made incorrectly.
3. The presentation doesn’t correspond to the requirements.
4. The student failed to answer questions.
 |

*Other suitable requirements can be added*