

APPROVED
Director of INDT
V.N. Borikov
« ____ » _____ 2016

COURSE DESCRIPTION

1. Course name Circuit Technique
2. Course code B.M12.1
3. Course of GEP 11.03.04 Electronics and nanoelectronics
4. Training profile (specialization, syllabus)
Industrial Electronics
5. Qualification (degree): Bachelor
6. Department in charge Industrial and Medical Electronics
of Institute of Non-Destructive Testing
7. Lecturer Yaroslavtsev Yevgeny Vitaliyevich
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9.3. Learning outcomes of the Discipline

- DR1 To solve professional tasks in the field of electric circuits;
DR2 To perform complex engineering projects in the field of electric circuits;
DR3 To present and to defend the results of engineering activity.

10. Course description

Introduction

Section 1. Electronic amplifiers of electric signals

Section 2. Feedback in electronic amplifiers

Section 3. Special types of electronic amplifiers

Section 4. Sine wave generators

11. Year 3 Semester 5 Number of credits 6

12. Prerequisites «Mathematics», «Physics», «Information technologies», «Electrical Engineering», «Vacuum, Plasma and Solid state Electronics», «Materials and Components of Electronics», «Metrology, Standardization and Certification», «Components of electronic devices», «Sensing devices and metrology, «Electronics», «Electronic and Electromechanical devices».

13. Corequisites «CAD and additive technologies», «Nanoelectronics», «Quantum and optical electronics», «Microelectronics 1.1», «Fundamentals of the theory of signals».

14. Type of midterm assessment Credit Test, Exam

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