		APPROVED
	I	Director of INDT
		V.N. Borikov
<b>‹</b> ‹	<b>&gt;&gt;</b>	2015

## **COURSE DESCRIPTION**

1. Course name Theory of Electric Circuits	
2. Course code B.M10	
3. Course of GEP <u>11.03.04 Electronics and nanoelectronics</u>	
4. Training profile (specialization, syllabus) <u>Industrial Electronics</u>	
5. Qualification (degree): <u>Bachelor</u>	
6. Department in charge Industrial and Medical Electronics of Institute of Non-Destructive Testing	
7. Lecturer <u>Yaroslavtsev Yevgeny Vitaliyevich</u>	
tel. 3822-419-605 E-mail <u>yaroslavtsev@tpu.ru</u>	
<ul> <li>9.3. Learning outcomes of the Discipline</li> <li>DR1 To solve professional tasks in the field of electric circuits;</li> <li>DR2 To perform complex engineering projects in the field of electric circuits;</li> <li>DR3 To present and to defend the results of engineering activity.</li> </ul>	
10. Course description	
Introduction Section 1. Time- and frequency-domain analysis of passive electric circuits. B concepts and definitions. Section 2. Frequency analysis of simple electrical circuits containing one reac element. Section 3. Frequency analysis of simple electrical circuits containing several reac elements.  Year 2 Semester 4 Number of credits 3	tive
11. Prerequisites <u>«Mathematics»</u> ; <u>«Physics»</u> ; <u>«Electrical Engineering»</u> ; <u>«Vacu Plasma and Solid state Electronics»</u> ; <u>«Materials and Components of Electronics»</u> .	
12. Corequisites <u>«Magnetic Elements of Electronic Devices»</u> ; <u>«Sensing devices metrology»</u> .	and
13. Type of midterm assessment <u>credit test</u>	
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