

**“POLITEHNICA” UNIVERSITY OF TIMISOARA, ROMANIA**

**COMPETENCES OF UPT GRADUATE IN:**

**FUNDAMENTAL DOMAIN: ENGINEERING SCIENCES**

**FIELD OF STUDY (Bachelor): ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING**

**PROGRAMME OF STUDY: TELECOMMUNICATION TECHNOLOGIES AND SYSTEMS**

<b>Crt. No.</b>	<b>Competences</b>
1	Understanding and use of fundamentals of mathematics, physics, chemistry, measurement techniques, materials science, technical graphics, mechanical engineering, electrical and electronic engineering, informatics and automatics
2	Use, design and development of applications on telecommunications electronic devices and circuits
3	Use, design and development of applications on processing and analysis of analog and digital signals in telecommunications.
4	Design, implementation, testing and use of electronic circuits and of typical circuits for telecommunication networks and systems
5	Use and development of programs and software applications that are typical for information technology and telecommunication systems
6	To collect and accurately understand relevant data in telecommunications and information technology, to be able to detect, formulate and solve a telecommunications or information technology problem, with the ability to communicate ideas, problems and solutions both to a professional audience and to a nonspecialized one, using techniques that involve qualitative and quantitative information.
7	To identify conflicting problems, to analyze and solve them in beneficial economical conditions and complying with the European legislation
8	Communication, team work, interdisciplinary cooperation and innovation by applying management and marketing fundamentals