Assessment and subject description

Óbuda Universit							
Kandó Kálmán Fa				e of Microelectroni		<u> </u>	
Subject name and code: Electronics II. KEXEL2EBNF					Credits: 4		
Full-time, autum							
Course: Electrica	<u> </u>						
		Pap Andrea Teachi	ng staff:	Horváth Márk			
Prerequisites: Electronics I.							
Contact hours per week:	Lecture: 1Class discussion.: 0Lab hours: 2				Tutorial: 0		
Assessment and evaluation:							
	·	Subject desc	ription				
Aims: to obtain l methods of analys		nding of the princip	oles and	operation of ofte	n used ci	rcuits and	
Lecture topics					Week	Hours	
Active filters with opamps, oscillators theory Voltage references, voltage and current stabilisers with opamps					2.	2	
Multivibrators					4.	2	
Differential amplifiers					6.	2	
3-stage transistor amplifier					8.	2	
Thermal resistance, heatsinks, component packaging and data sheet information					10.	2	
Switching mode DC-DC and AC-DC supplies					12.	2	
Complementary (push-pull) end-stage (power) amplifiers					14	2	
Laboratory topics					Session	Hours	
Tuned analog circuits (active filters, oscillators)					1.	4	
Multivibrators					2.	4	
Symmetric differential amplifiers					3.	4	
Linear applications of operational amplifiers					4.	4	
Complementary power amplifiers					5.	4	
Time for repeating or finishing measurements					6.	4	
Time for repeating or finishing measurements					7.	4	
		Assessment and	evaluat	ion:			

Participation on laboratories is mandatory and lab repors have to be submitted and accepted in order to be eligible for the exam. The laboratory sessions have to be finished and reports submitted before the start of the exam period.

Suggested material:

U.Tietze, Ch.Schenk: Electronic Circuits