

**STUDY PLAN**  
**3 Semesters Master Programme**

**Master title: Advanced Microelectronics (AM)**

**1st Academic year – 1st Semester (Semester 9)**

Course Code	Course Title	1st Semester 14 weeks					Assessment (E/V/P)
		C	S	L	P	c.p.	
04.S.09.O.041	IC Processes Integration and Basic Analog Building Blocks (transistor level)	3		1		4	E
04.S.09.O.042	Basic Digital Blocks	3		1		4	E
04.S.09.O.043	CAD for Integrated Circuits Design	2		2		4	E
04.S.09.O.044	Microcontrollers and Embedded Systems	2		2		4	E
04.S.09.O.045	Invited course. 2009/10 proposed course: Automotive Electronics: An Industrial View, Infineon	2				2	E
04.S.09.O.046	Research activity	12 hours/week				12	V
	<b>Total</b>	<b>12</b>		<b>6</b>		<b>30</b>	

**1st Academic year – 2nd Semester (Semester 10)**

Course Code	Course Title	2nd Semester 14 weeks					Assessment (E/V/P)
		C	S	L	P	c.p.	
04.S.10.O.051	Basic Analog Functional Blocks	2		2		4	E
04.S.10.O.052	Advanced electronics for cars	2		1		3	E
04.S.10.O.053	Technology CAD	2		2		4	E
04.S.10.O.054	Power Electronic Circuits	2		1		3	E
04.S.10.O.055	Digital System Design: Project				2	2	E
04.S.10.O.056	Invited course. 2009/10 proposed course: Automotive Sensors, Infineon	2				2	E
04.S.10.O.057	Research activity	12 hours/week				12	V
	<b>Total</b>	<b>10</b>		<b>6</b>	<b>2</b>	<b>30</b>	

**2nd Academic year – 1st Semester (Semester 11)**

Course Code	Course Title	3rd Semester 14 weeks					Assessment (E/V/P)
		C	S	L	P	c.p.	
04.S.11.O.061	Advanced Analog Functional Blocks	3		1		4	E
04.S.11.O.062	Digital and Analog HDL and Synthesis	2		2		4	E
04.S.11.O.063	Invited course. 2010/11 proposed course: Special Topics in Analog and Smart Power Design, Infineon	2				2	E
04.S.11.O.064	Master Thesis	20 hours/week				20	V
	<b>Total</b>	<b>7</b>		<b>3</b>		<b>30</b>	

RECTOR,  
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