

**ENGINEERING SCHOOL**  
**Academic year 2010-2011**

**SEMESTER 9**

**Water sustainable management in urban area Option (GEDEMU)**

MODULES	SUBJECTS	LECTURE	CONFERENCE	TUTORIALS	PROJECT (h)	VISITE (h)	ASSESSMENT	TOTAL (h)	ECTS credits
<b>PERSONAL DEVELOPMENT MODULE</b>	Attendance & participation								1
	Communication & human relation			21				21	
	Management sociology	3						3	
	Bibliography and engineering thesis presentation			1				1	
	Employment information		1						
	Seminar employment preparation (optional end S10)			35				35	
	<b>total</b>	<b>3</b>	<b>36</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>3</b>
<b>LAW, ECONOMICS, MANAGEMENT MODULE</b>	Engineering and works	15		4			1	20	
	Economic intelligence and firm strategy	6		9			1	16	
	Sustainable development tools	9		8				17	
	Financial engineering	3		2	16			21	
	Management of public utilities	6		11				17	
		<b>total</b>	<b>39</b>	<b>0</b>	<b>34</b>	<b>16</b>	<b>0</b>	<b>2</b>	<b>91</b>
<b>SCIENCES &amp; ENGINEERING TOOLS MODULE</b>	Data analysis	9		12				21	
	SGBD	9		12				21	
	SIG	6		9				15	
	Data treatment	2			24			26	
	Topography	4		12				16	
	Remote sensing	3		4				7	
		<b>total</b>	<b>33</b>	<b>0</b>	<b>49</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>106</b>
<b>NETWORKS MODULE</b>	Water facilities modelling	3		16				19	
	3D Computer modelling	3		16				19	
	Instrumentation (in english)		2	4				6	
	Water facilities construction	18				3		21	
		<b>total</b>	<b>24</b>	<b>2</b>	<b>36</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>65</b>
<b>WORKS DESIGN</b>	Civil engineering	12						12	
	Works design project				20	4	1	25	
		<b>total</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>4</b>	<b>1</b>	<b>37</b>
<b>TECHNOLOGICAL PROCESS MODULE</b>	Drinking water treatment	6			14			20	
	Water treatment - advanced technology	6		4				10	
	Technological project				20		4	24	
		<b>total</b>	<b>12</b>	<b>0</b>	<b>4</b>	<b>34</b>	<b>0</b>	<b>4</b>	<b>54</b>
<b>TOTAL</b>		<b>123</b>	<b>38</b>	<b>145</b>	<b>94</b>	<b>7</b>	<b>7</b>	<b>414</b>	<b>30</b>