### Syllabus MSc Agrofood Chain

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>MODULES</th>
<th>Number of ECTS credits</th>
<th>Format of the course (in hours of class lecture L, tutored work TW, personal work PW, visits V)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First year M1 Semester 1</strong></td>
<td><strong>Discovery of a food supply chain: French wine making</strong></td>
<td>2</td>
<td>2 L + 15 TW + V</td>
</tr>
<tr>
<td>(Sept – Dec)</td>
<td><strong>Introduction to the analysis of agrofood chains: concepts and methods</strong></td>
<td>4</td>
<td>18 L + 12 TW</td>
</tr>
<tr>
<td><strong>30 ECTS credits</strong></td>
<td><strong>System analysis, sustainability and case study of an agrofood chain</strong></td>
<td>5</td>
<td>8 L + 27 TW + V</td>
</tr>
<tr>
<td></td>
<td><strong>Methodology (Level I)</strong></td>
<td>3</td>
<td>35 TW</td>
</tr>
<tr>
<td></td>
<td><strong>Fundamentals of agronomy</strong></td>
<td>2</td>
<td>25 L + 15 PW</td>
</tr>
<tr>
<td></td>
<td><strong>Fundamentals of ecology</strong></td>
<td>2</td>
<td>25 L + 15 PW</td>
</tr>
<tr>
<td></td>
<td><strong>Fundamentals of economics</strong></td>
<td>2</td>
<td>25 L + 15 PW</td>
</tr>
<tr>
<td></td>
<td><strong>Fundamentals of molecular biology and food safety</strong></td>
<td>2</td>
<td>25 L + 15 PW</td>
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<tr>
<td></td>
<td><strong>Multidisciplinary problem resolution project</strong></td>
<td>4</td>
<td>8 L + 20 TW + 30 PW + V</td>
</tr>
<tr>
<td></td>
<td><strong>Communication in English (Level I)</strong></td>
<td>2</td>
<td>15 TW + 10 PW</td>
</tr>
<tr>
<td></td>
<td><strong>Communication in French (Level I)</strong></td>
<td>2</td>
<td>15 TW + 10 PW</td>
</tr>
<tr>
<td></td>
<td><strong>Organization, governance and performances of agrofood chains</strong></td>
<td>4</td>
<td>20 L + 20 TW + 35 PW + V</td>
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<tr>
<td></td>
<td><strong>Rural development and local agrofood chains</strong></td>
<td>4</td>
<td>40 L + 35 TW + V</td>
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<tr>
<td></td>
<td><strong>Agroecology</strong></td>
<td>4</td>
<td>40 L + 35 PW + V</td>
</tr>
<tr>
<td></td>
<td><strong>Value enhancement of plant biotic resources</strong></td>
<td>4</td>
<td>40 L + 35 TW</td>
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<tr>
<td></td>
<td><strong>Methodology (Level II) and global seminar</strong></td>
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<td>55 TW + 20 PW</td>
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<tr>
<td>Course</td>
<td>Credits</td>
<td>Hours</td>
<td></td>
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<tr>
<td>-----------------------------------------------------------------------</td>
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<td></td>
</tr>
<tr>
<td>Communication in English (Level II)</td>
<td>2</td>
<td>15 TW + 10 PW</td>
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</tr>
<tr>
<td>Communication in French (Level II)</td>
<td>2</td>
<td>15 TW + 10 PW</td>
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<tr>
<td>2-month internship in enterprise or research lab / OR / Research essay, in May-June Oral defense first week of July</td>
<td>6</td>
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<tr>
<td>Food safety and the management of risk and uncertainty in agrofood chains</td>
<td>4</td>
<td>30 L + 20 TW + 25 PW</td>
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<tr>
<td>Nutrition and sustainable food systems</td>
<td>4</td>
<td>30 L + 20 TW + 25 PW</td>
<td></td>
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<tr>
<td>Advanced course in microbiology</td>
<td>3</td>
<td>25 L + 20 TW</td>
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<tr>
<td>Advanced course in agroecology</td>
<td>3</td>
<td>25 L + 20 TW + V</td>
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<tr>
<td>Advanced course in agricultural economics</td>
<td>3</td>
<td>25 L + 20 TW + V</td>
<td></td>
</tr>
<tr>
<td>Methodology (Level III)</td>
<td>2</td>
<td>25 TW</td>
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<tr>
<td>Multidisciplinary research project</td>
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<td>4 L + 35 PW</td>
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<tr>
<td>Project management</td>
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<tr>
<td>Group tutored project</td>
<td>6</td>
<td>8 L + 45 TW + V</td>
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<tr>
<td>5-month internship in enterprise or research lab / OR / Research essay, from beginning of January to end of June Oral defense first week of July</td>
<td>30</td>
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