

|              |           |                |             |                  |                                                                                             |                   |                   |                     |          | ECTS per semester |      |      |      |
|--------------|-----------|----------------|-------------|------------------|---------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------|----------|-------------------|------|------|------|
|              |           |                |             |                  |                                                                                             |                   |                   |                     |          | 120               |      |      |      |
|              |           |                |             |                  |                                                                                             |                   |                   |                     |          | 30                | 30   | 30   | 30   |
| Module       | Unit CRAE | Coef unit CRAE | Unit CROSTH | Coef unit CROSTH | Unit title                                                                                  | Teacher           | Course hours CRAE | Course hours CROSTH | ECTS     | ECTS              | ECTS | ECTS | ECTS |
| <b>MTC1</b>  |           |                |             |                  |                                                                                             |                   | <b>84</b>         | <b>84</b>           | <b>7</b> |                   |      |      |      |
|              | MTC1.1-AE | 0.4            |             |                  | Ceramics                                                                                    | HDE               | 24                |                     |          |                   |      |      |      |
|              | MTC1.2-AE | 0.3            | MTC1.2-STH  | 0.5              | Organic materials - animal fibers                                                           | CAL               | 20                | 20                  |          |                   |      |      |      |
|              | MTC1.3-AE | 0.0            | MTC1.3-STH  | 0.0              | Naturalia                                                                                   | Cuisin            | 8                 | 8                   |          |                   |      |      |      |
|              |           |                | MTC1.1-STH  | 0.0              | Conservation of objects used in public transport                                            | Meyer zu Bargholz |                   | 8                   |          |                   |      |      |      |
|              | MTC1.4-AE | 0.3            |             |                  | Society, objects and collections                                                            | Waldvogel         | 24                |                     |          |                   |      |      |      |
|              |           |                | MTC1.4-STH  | 0.5              | History of sciences and techniques                                                          | JBO               |                   | 40                  |          |                   |      |      |      |
|              | MTC1.5-AE | 0.0            | MTC1.5-STH  | 0.0              | Conservation issues in Museum exhibitions: from showcases design to installation of objects | Vasquez J.        | 8                 | 8                   |          |                   |      |      |      |
| <b>MTC2</b>  |           |                |             |                  |                                                                                             |                   | <b>52</b>         | <b>52</b>           | <b>5</b> |                   |      |      |      |
|              | MTC2.1    | -              | MTC2.1      | -                | Research skills for conservation-restoration - preparatory work                             | CDE               | 12                | 12                  |          |                   |      |      |      |
|              | MTC2.2    | 1.0            | MTC2.2      | 1.0              | Research skills for conservation-restoration                                                | CDE               | 32                | 32                  |          |                   |      |      |      |
|              | MTC2.3    | -              | MTC2.3      | -                | Research skills for conservation-restoration - final assessment                             | CDE               | 8                 | 8                   |          |                   |      |      |      |
| <b>MWP1</b>  |           |                |             |                  |                                                                                             |                   | <b>120</b>        | <b>124</b>          | <b>5</b> |                   |      |      |      |
|              | MWP1.1-AE | 1.0            |             |                  | Ceramics 1                                                                                  | HDE               | 120               |                     |          |                   |      |      |      |
|              |           |                | MWP1.1-STH  | 1.0              | Technical and scientific objects 1                                                          | GRA               |                   | 84                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | TSC               |                   | 32                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | JBO               |                   | 8                   |          |                   |      |      |      |
| <b>MWP2</b>  |           |                |             |                  |                                                                                             |                   | <b>108</b>        | <b>100</b>          | <b>5</b> |                   |      |      |      |
|              | MWP2.1-AE | 0.5            |             |                  | Ceramics 2                                                                                  | Tissier           | 48                |                     |          |                   |      |      |      |
|              | MWP2.2-AE | 0.5            | MWP2.2-STH  | 0.7              | Colour and retouching                                                                       | ANG               | 36                | 36                  |          |                   |      |      |      |
|              |           |                | MWP2.1-STH  | 0.3              | Infography                                                                                  | ANG               |                   | 16                  |          |                   |      |      |      |
|              | MWP2.3-AE | 0.0            | MWP2.3-STH  | 0.0              | Conservation and restoration in geosciences                                                 | RJE               |                   | 24                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | Jurassica         | 24                | 24                  |          |                   |      |      |      |
| <b>MWP3</b>  |           |                |             |                  |                                                                                             |                   | <b>116</b>        | <b>116</b>          | <b>5</b> |                   |      |      |      |
|              | MWP3.1-AE | 0.9            |             |                  | Organic materials - animal fibers                                                           | CAL               | 60                |                     |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | Bonnot-Diconne    |                   | 40                  |          |                   |      |      |      |
|              |           |                | MWP3.1-STH  | 0.9              | Technical and scientific objects 2                                                          | GRA               |                   | 92                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | TSC               |                   | 8                   |          |                   |      |      |      |
|              | MWP3.2-AE | 0.1            | MWP3.2-STH  | 0.1              | Microanalysis - materials characterisation                                                  | EJO               | 16                | 16                  |          |                   |      |      |      |
| <b>MWP10</b> |           |                |             |                  |                                                                                             |                   | <b>40</b>         | <b>40</b>           | <b>3</b> |                   |      |      |      |
|              | MWP10.1   | 0.5            | MWP10.1     | 0.5              | Cleaning techniques                                                                         | HDE               | 20                | 20                  |          |                   |      |      |      |
|              | MWP10.2   | 0.5            | MWP10.2     | 0.5              | Complexing agents in CR                                                                     | EJO               | 20                | 20                  |          |                   |      |      |      |
| <b>MTC4</b>  |           |                |             |                  |                                                                                             |                   | <b>52</b>         | <b>52</b>           | <b>5</b> |                   |      |      |      |
|              | MTC4.1    | -              | MTC4.1      | -                | Managing Conservation-Restoration Projects - preparatory work                               | Guillod           | 12                | 12                  |          |                   |      |      |      |
|              | MTC4.2    | 1.0            | MTC4.2      | 1.0              | Managing Conservation-Restoration Projects                                                  | Guillod           | 32                | 32                  |          |                   |      |      |      |
|              | MTC4.3    | -              | MTC4.3      | -                | Managing Conservation-Restoration Projects - final assessment                               | Guillod           | 8                 | 8                   |          |                   |      |      |      |
| <b>MTC5</b>  |           |                |             |                  |                                                                                             |                   | <b>38</b>         | <b>60</b>           | <b>5</b> |                   |      |      |      |
|              | MTC5.1-AE | 0.8            | MTC5.1-STH  | 0.4              | Metals and alloys                                                                           | VBO               | 20                | 20                  |          |                   |      |      |      |
|              |           |                |             |                  | Metals and alloys                                                                           | Schröter          | 2                 | 2                   |          |                   |      |      |      |
|              |           |                |             |                  | Mineral fibers identification                                                               | Rast              | 4                 |                     |          |                   |      |      |      |
|              |           |                |             |                  | Numismatic                                                                                  | Frey              | 4                 |                     |          |                   |      |      |      |
|              | MTC5.2-AE | 0.2            | MTC5.2-STH  | 0.1              | Modern alloys                                                                               | CDE               | 8                 | 8                   |          |                   |      |      |      |
|              |           |                | MTC5.3-STH  | 0.5              | Horological / electrical objects                                                            | TSC               |                   | 30                  |          |                   |      |      |      |
| <b>MTC7</b>  |           |                |             |                  |                                                                                             |                   | <b>48</b>         | <b>48</b>           | <b>5</b> |                   |      |      |      |
|              | MTC7.1    | 0.4            | MTC7.1      | 0.4              | Scientific analysis in conservation                                                         | CDE               | 24                | 24                  |          |                   |      |      |      |
|              | MTC7.2    | 0.3            | MTC7.2      | 0.3              | Microscopy                                                                                  | CDE               | 8                 | 8                   |          |                   |      |      |      |
|              |           |                |             |                  | Microscopy                                                                                  | Scherrer          | 8                 | 8                   |          |                   |      |      |      |
|              | MTC7.3    | 0.3            | MTC7.3      | 0.3              | Crystallography / metallography                                                             | CDE               | 8                 | 8                   |          |                   |      |      |      |
| <b>MTH1</b>  |           |                |             |                  |                                                                                             |                   | <b>12</b>         | <b>12</b>           | <b>5</b> |                   |      |      |      |
|              | MTH1      | 1.0            | MTH1        | 1.0              | Master's thesis 1                                                                           | RJE/LBR/TSC       | 12                | 12                  |          |                   |      |      |      |
| <b>MWP4</b>  |           |                |             |                  |                                                                                             |                   | <b>172</b>        | <b>162</b>          | <b>5</b> |                   |      |      |      |
|              | MWP4.1-AE | 1.0            | MWP4.1-STH  | -                | Metals and alloys 1                                                                         | VBO               | 126               | 12                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | RJE               | 6                 | 6                   |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | CDE               | 16                |                     |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | à déf. (RBE)      | 16                |                     |          |                   |      |      |      |
|              | MWP4.2-AE | 0.0            | MWP4.2-STH  | 0.0              | Hammering                                                                                   | a Marca           | 8                 | 8                   |          |                   |      |      |      |
|              |           |                | MWP4.3-STH  | 1.0              | Horology 1                                                                                  | TSC               |                   | 104                 |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | Expert à déf.     |                   | 24                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | à déf. (RBE)      |                   | 8                   |          |                   |      |      |      |
| <b>MWP5</b>  |           |                |             |                  |                                                                                             |                   | <b>144</b>        | <b>160</b>          | <b>5</b> |                   |      |      |      |
|              | MWP5.1-AE | 1.0            |             |                  | Metals and alloys 2                                                                         | VBO               | 144               |                     |          |                   |      |      |      |
|              |           |                | MWP5.1-STH  | 0.8              | Horology 2                                                                                  | TSC               |                   | 82                  |          |                   |      |      |      |
|              |           |                | MWP5.2-STH  | 0.2              | Electrical objects                                                                          | Fontaine          |                   | 48                  |          |                   |      |      |      |
|              |           |                |             |                  |                                                                                             | GRA               |                   | 30                  |          |                   |      |      |      |

| Module      | Unit CRAE | Coef unit CRAE | Unit CROSTH | Coef unit CROSTH | Unit title                                                                                             | Teacher                                    | Course hours CRAE | Course hours CROSTH | ECTS S1 | ECTS S2 | ECTS S3   | ECTS S4 |
|-------------|-----------|----------------|-------------|------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|---------------------|---------|---------|-----------|---------|
| <b>MTC6</b> |           |                |             |                  | <b>Theory of conservation-restoration 6 - Common course</b>                                            |                                            | <b>52</b>         | <b>52</b>           |         |         | <b>5</b>  |         |
|             | MTC6.1    | -              | MTC6.1      | -                | Principles to Practice: The Role of the Conservator-Restorer - preparatory work                        | VBO                                        | 12                | 12                  |         |         |           |         |
|             | MTC6.2    | -              | MTC6.2      | -                | Principles to Practice: The Role of the Conservator-Restorer - course                                  | VBO                                        | 32                | 32                  |         |         |           |         |
|             | MTC6.3    | 1.0            | MTC6.3      | 1.0              | Principles to Practice: The Role of the Conservator-Restorer - final assessment                        | VBO                                        | 8                 | 8                   |         |         |           |         |
| <b>MTC9</b> |           |                |             |                  | <b>Theory of conservation-restoration 9</b>                                                            |                                            | <b>48</b>         | <b>36</b>           |         |         | <b>5</b>  |         |
|             | MTC9.1-AE | 3.0            | MTC9.1-STH  | 0.2              | Glasses                                                                                                | HDE                                        | 24                | 8                   |         |         |           |         |
|             | MTC9.2-AE | 1.0            | MTC9.2-STH  | 0.4              | Ancient mosaics and pavements 2                                                                        | Terrapon ?                                 | 8                 |                     |         |         |           |         |
|             |           |                | MTC9.4-STH  | 0.4              | Organic materials - plant fibers<br>Horology history and styles / Functional description of mechanisms | Goron<br>TSC                               | 16<br>12          | 16                  |         |         |           |         |
| <b>MWP6</b> |           |                |             |                  | <b>Conservation-restoration workshop 6</b>                                                             |                                            | <b>80</b>         | <b>94</b>           |         |         | <b>5</b>  |         |
|             | MWP6.1-AE | 1.0            |             |                  | Glasses 1                                                                                              | HDE                                        | 80                |                     |         |         |           |         |
|             |           |                | MWP6.1-STH  | 1.0              | Technical and scientific objects 3                                                                     | GRA<br>TSC<br>Expert à déf.                |                   | 40<br>32<br>22      |         |         |           |         |
| <b>MWP7</b> |           |                |             |                  | <b>Conservation-restoration workshop 7</b>                                                             |                                            | <b>40</b>         | <b>64</b>           |         |         | <b>5</b>  |         |
|             | MWP7.1-AE | 1.0            |             |                  | Glasses 2                                                                                              | Fiol                                       | 40                |                     |         |         |           |         |
|             |           |                | MWP7.1-STH  | 1.0              | Technical and scientific objects 4                                                                     | GRA<br>Sauter<br>Braekman                  |                   | 24<br>24<br>16      |         |         |           |         |
| <b>MWP8</b> |           |                |             |                  | <b>Conservation-restoration workshop 8</b>                                                             |                                            | <b>112</b>        | <b>88</b>           |         |         | <b>5</b>  |         |
|             | MWP8.1-AE | 1.0            |             |                  | Organic materials - plant fibers 1                                                                     | Goron                                      | 84                |                     |         |         |           |         |
|             |           |                | MWP8.1-STH  | 1.0              | Technical and scientific objects 5                                                                     | Cuendet<br>GRA<br>RJE<br>Meyer zu Bargholz | 28                | 48<br>8<br>32       |         |         |           |         |
| <b>MWP9</b> |           |                |             |                  | <b>Conservation-restoration workshop 9</b>                                                             |                                            | <b>84</b>         | <b>60</b>           |         |         | <b>5</b>  |         |
|             | MWP9.1    | 0.3            | MWP9.1      | 0.5              | Introduction to electrochemical treatments in conservation                                             | ? (CDE)                                    | 32                | 32                  |         |         |           |         |
|             | MWP9.2    | 0.2            | MWP9.2      | 0.3              | Polymers                                                                                               | Ramel                                      | 8                 | 8                   |         |         |           |         |
|             | MWP9.3-AE | 0.2            |             |                  | Preservation of painted layers                                                                         | ANG                                        | 12                | 12                  |         |         |           |         |
|             | MWP9.4-AE | 0.1            |             |                  | Conservation on site                                                                                   | Tissier                                    | 16                |                     |         |         |           |         |
|             |           |                | MWP9.3-STH  | 0.1              | Stone, mortar, mural painting, rock art 1                                                              | Guyot                                      | 16                |                     |         |         |           |         |
| <b>MTC8</b> |           |                |             |                  | <b>Theory of conservation-restoration 8 - Common course</b>                                            |                                            | <b>52</b>         | <b>52</b>           |         |         | <b>5</b>  |         |
|             | MTC8.1    | -              | MTC8.1      | -                | Introduction to tribology in CR                                                                        | TSC                                        |                   | 8                   |         |         |           |         |
|             | MTC8.2    | 1.0            | MTC8.2      | 1.0              | Sustainability in CR practise: Cleaning                                                                | EJO                                        | 32                | 32                  |         |         |           |         |
|             | MTC8.3    | -              | MTC8.3      | -                | Sustainability in CR practise: Cleaning - final assessment                                             | EJO                                        | 8                 | 8                   |         |         |           |         |
| <b>MTH2</b> |           |                |             |                  | <b>Master's thesis 2</b>                                                                               |                                            | <b>0</b>          | <b>0</b>            |         |         | <b>25</b> |         |
|             | MTH2      | 1.0            | Thesis      | 1.0              |                                                                                                        | RJE, LBR, VBO, TSC                         | 0                 | 0                   |         |         |           |         |

CRAE : archaeological and ethnological objects

CROSTH : scientific, technical and horological objects

1 course hour = 60 minutes, 5 ECTS = about 150 Student Working Hours

All courses but the scientific platform (MWPx- PFS) are evaluated on a regular basis (written or oral examinations, written documentations, exercises and laboratories or presence)