

**Research Master - M2**  
**Applied Plant Biology and Environment**  
**2026-2027**

| <b>Semester 3</b> | Course  |   |           |            |           |            |
|-------------------|---|---|-----------|------------|-----------|------------|
|                   | Code  | Title   | Credits   | C          | TS        | Hours      |
|                   | Common Courses  |   |           |            |           |            |
|                   | APBE 500  | Plant Stress Resistance                           | 4         | 28         |           | 28         |
|                   | APBE 501  | Biostatistics                                     | 3         | 21         |           | 21         |
|                   | APBE 502  | Environmental Biology                             | 3         | 21         |           | 21         |
|                   | RMSE 500  | Research Methodology and Scientific English       | 2         |            | 24        | 24         |
|                   | Option : Phyto-ecology : Resources, Security and Applications |   |           |            |           |            |
|                   | PHTE 500  | Phyto-ecology: succession and restoration         | 3         | 21         |           | 21         |
|                   | PHTE 510  | Cultural practices in plants                      | 3         | 21         |           | 21         |
|                   | PHTE 512  | Environmental Legislation                         | 3         | 21         |           | 21         |
|                   | PHTE 513  | Biological Agriculture                            | 3         | 21         |           | 21         |
|                   | PHTE 514  | Eco-friendly Materials : Approach and Application | 3         | 21         |           | 21         |
|                   | PHTE 515  | Phyto-Technologies                                | 3         | 21         |           | 21         |
|                   | <b>Total</b>  |   | <b>30</b> | <b>196</b> | <b>24</b> | <b>220</b> |
|                   | Option : Applied Plant Biotechnology                          |   |           |            |           |            |
|                   | APLB 501  | Plant metabolic engineering                       | 4         | 28         |           | 28         |
|                   | APLB 504  | Molecular markers and selection                   | 5         | 35         |           | 35         |
|                   | APLB 508  | Advanced plant tissue culture and plant breeding  | 4         | 28         |           | 28         |
|                   | APLB 512  | Advanced Plant Genomics                           | 2         | 14         |           | 14         |
|                   | APLB 513  | Proteomics and Transcriptomics in Plant Science   | 3         | 21         |           | 21         |
|                   | <b>Total</b>  |   | <b>30</b> | <b>196</b> | <b>24</b> | <b>220</b> |

| <b>Semester 4</b> | Course               |                      |           |   |    |       |
|-------------------|----------------------|----------------------|-----------|---|----|-------|
|                   | Code                 | Title                | Credits   | C | TS | Hours |
|                   | PHTE 580<br>APLB 580 | <b>Master Thesis</b> | 30        |   |    |       |
|                   | <b>Total</b>         |                      | <b>30</b> |   |    |       |