

**STUDY PLAN**  
**Study year : 1 (2021/2022)**

**I. Compulsatory courses**

| Nr.                         | Courses                                                        | Cod        | Semester 1 (14 weeks) |   |   |    |        |    | Semester 2 (14 weeks) |   |    |       |     |    | Total credits/year |
|-----------------------------|----------------------------------------------------------------|------------|-----------------------|---|---|----|--------|----|-----------------------|---|----|-------|-----|----|--------------------|
|                             |                                                                |            | hours/weeks           |   |   |    |        |    | hours/weeks           |   |    |       |     |    |                    |
|                             |                                                                |            | C                     | S | L | P  | Cr     | FV | C                     | S | L  | P     | Cr. | FV |                    |
| 1                           | Multi-omics applications in biotechnology                      | 0311010101 | 1                     |   | 2 | 1  | 8      | E  |                       |   |    |       |     |    | 8                  |
| 2                           | Microbial biotechnologies                                      | 0311010102 | 2                     |   | 2 |    | 8      | E  |                       |   |    |       |     |    | 8                  |
| 3                           | Genomics                                                       | 0311010103 | 2                     |   | 2 |    | 7      | E  |                       |   |    |       |     |    | 7                  |
| 4                           | Nutritional genomics                                           | 0311010104 | 1                     |   | 1 |    | 4      | E  |                       |   |    |       |     |    | 4                  |
| 5                           | Academic ethics and integrity                                  | 0311010105 | 1                     | 1 |   |    | 3      | V  |                       |   |    |       |     |    | 3                  |
| 6                           | Marker Assisted Selection in Animal Populations                | 0311010106 |                       |   |   |    |        |    | 1                     |   | 1  | 2     | 8   | E  | 8                  |
| 7                           | Embryo biotechnology                                           | 0311010107 |                       |   |   |    |        |    | 2                     |   | 2  |       | 8   | E  | 8                  |
| 8                           | Molecular techniques for food authentication and GMO detection | 0311010108 |                       |   |   |    |        |    | 1                     |   | 2  |       | 7   | E  | 7                  |
| 9                           | Bioinformatics and biostatistics                               | 0311010109 |                       |   |   |    |        |    | 1                     |   | 2  | 1     | 7   | V  | 7                  |
| Total: hours/weeks          |                                                                |            | 7                     | 1 | 7 | 1  |        |    | 5                     | 0 | 7  | 3     |     |    |                    |
| Total: hours /credits /year |                                                                |            | 16                    |   |   | 30 | 4E, 1V | 15 |                       |   | 30 | 3E,1V | 60  |    |                    |

**STUDY PLAN**  
**Study year : 2 (2022/2023)**

**I. Compulsatory courses**

| I. Compulsatory courses                    |                                                                          |            |                       |   |   |   |    |    |                       |   |   |    |     |       |            |    |
|--------------------------------------------|--------------------------------------------------------------------------|------------|-----------------------|---|---|---|----|----|-----------------------|---|---|----|-----|-------|------------|----|
| Nr.                                        | Courses                                                                  | Cod        | Semester 1 (14 weeks) |   |   |   |    |    | Semester 2 (10 weeks) |   |   |    |     |       | Total year |    |
|                                            |                                                                          |            | hours/week            |   |   |   |    |    | hours/weeks           |   |   |    |     |       |            |    |
|                                            |                                                                          |            | C                     | S | L | P | Cr | FV | C                     | S | L | P  | Cr. | FV    |            |    |
| 1                                          | Principles and isolation techniques of metabolites from natural matrices | 0311020101 | 2                     |   | 2 |   | 8  | E  |                       |   |   |    |     |       |            | 8  |
| 2                                          | Biotechnology of fermentative products                                   | 0311020102 | 2                     |   | 2 |   | 8  | E  |                       |   |   |    |     |       |            | 8  |
| 3                                          | Applied biotechnologies in enthomology                                   | 0311020103 | 2                     |   | 2 |   | 8  | E  |                       |   |   |    |     |       |            | 5  |
| 4                                          | Applied bioeconomy and entrepreneurship                                  | 0311020104 | 1                     | 1 |   |   | 6  | E  |                       |   |   |    |     |       |            | 6  |
| 5                                          | Biomaterials - practical application                                     | 0311020105 |                       |   |   |   |    |    | 2                     |   | 2 |    | 7   | E     |            | 7  |
| 6                                          | Biodinamics of natural pigments                                          | 0311020106 |                       |   |   |   |    |    | 2                     |   | 2 |    | 6   | E     |            | 6  |
| 7                                          | Scientific research                                                      | 0311020107 |                       |   |   |   |    |    | 220 hours             |   |   |    | 12  | V     |            | 12 |
| 8                                          | Elaboration of the dissertation thesis                                   | 0311020108 |                       |   |   |   |    |    | 120 hours             |   |   |    | 5   | V     |            | 5  |
| Total: hours/credits/week                  |                                                                          |            | 7                     | 1 | 6 | 0 | 30 | 4E | 4                     |   | 4 |    | 30  | 2E,1V |            |    |
|                                            |                                                                          |            |                       |   |   |   |    |    |                       |   |   |    |     |       |            |    |
| Total / semester /year                     |                                                                          |            | 14                    |   |   |   | 30 | 4E | 8                     |   |   | 30 |     | 60    |            |    |
|                                            |                                                                          |            |                       |   |   |   |    |    | 420 hours             |   |   |    |     |       |            |    |
| II.Dissertation exam                       |                                                                          |            |                       |   |   |   |    |    |                       |   |   |    |     |       |            |    |
| Examination of the graduation dissertation |                                                                          |            |                       |   |   |   |    |    |                       |   |   |    |     |       | 10         |    |