

Curriculum for the Master's Degree in Computer Science

Thesis Track

The requirements for obtaining the Master's Degree in Computer Science (Thesis Track) consist of (33) credit hours distributed as follows:

A. Obligatory Courses (15) Credit Hours:

| Course Number | Course Title | Credit Hours | Learning Mode | Prerequisite |
|---------------|---|--------------|---------------|--------------|
| 1501721 | Advanced Computer Networks | 3 | Face-to-Face | — |
| 1501731 | Advanced Database Systems | 3 | Face-to-Face | — |
| 1501751 | Applied Algorithms | 3 | Face-to-Face | — |
| 1501781 | Applications of Artificial Intelligence | 3 | Online | — |
| 1503711 | Research Methodology | 3 | Online | — |

B. Elective Courses (9) Credit Hours: the student chooses them from the following:

| Course Number | Course Title | Credit Hours | Learning Mode | Prerequisite |
|---------------|---|--------------|---------------|--------------|
| 1501722 | Advanced Topics in Wireless Networks | 3 | Blended | — |
| 1501732 | Advanced Operating Systems | 3 | Blended | — |
| 1501741 | Advanced Cloud Computing | 3 | Blended | — |
| 1501754 | Biological Computations | 3 | Blended | — |
| 1501782 | Machine Learning | 3 | Blended | — |
| 1501783 | Computer Vision | 3 | Blended | — |
| 1501785 | Data Mining | 3 | Blended | — |
| 1501786 | Natural Language Processing | 3 | Blended | — |
| 1501788 | Advanced Topics in Information Technology | 3 | Blended | — |
| 1503731 | Software Project Management | 3 | Blended | — |
| 1503735 | Advanced Software Modeling | 3 | Blended | — |
| 1506723 | Cybersecurity Risk Management | 3 | Blended | — |
| 1506735 | Advanced Network Security | 3 | Blended | — |
| 1506768 | Blockchain | 3 | Blended | — |

C. Thesis (9) Credit Hours:

| Course Number | Course Title | Credit Hours | Learning Mode | Prerequisite |
|---------------|--------------------|--------------|---------------|--------------|
| 1501000 | Thesis In Progress | 0 | Face-to-Face | — |
| 1501799 | Thesis | 9 | Face-to-Face | — |