

# Galgotias University

## School of Computer Applications & Technology

### Curriculum M.Sc Data Science

#### Semester 1

| S<br>No. | Name of the Course                                |   |   |   |           |
|----------|---|---|---|---|-----------|
|          |   | L | T | P | C         |
| 1        | Mathematics for Data Science and Machine Learning | 3 | 0 | 0 | 3         |
| 2        | Programming for Data Science and ML               | 3 | 0 | 2 | 5         |
| 3        | Data Analytics and Visualisation                  | 3 | 0 | 2 | 5         |
| 4        | Cloud Computing and Big Data Fundamentals         | 3 | 0 | 0 | 3         |
| 5        | Deep Learning                                     | 3 | 0 | 2 | 5         |
|          | <b>Total Credits</b>                              |   |   |   | <b>21</b> |

#### Semester II

| SI No | Name of the Course                |          |          |          |           |
|-------|-----------------------------------|----------|----------|----------|-----------|
|       |                                   | L        | T        | P        | C         |
| 1     | Advanced ML                       | 3        | 0        | 2        | 5         |
| 2     | Natural Language Processing (NLP) | 3        | 0        | 2        | 5         |
| 3     | Advanced Analytics                | <b>3</b> | <b>0</b> | <b>2</b> | <b>5</b>  |
| 4     | Gen AI for Data Analysis          | 3        | 0        | 2        | 5         |
|       | <b>Total Credits</b>              |          |          |          | <b>20</b> |

#### Semester III

| SI No | Name of the Course            |   |   |   |           |
|-------|-------------------------------|---|---|---|-----------|
|       |                               | L | T | P | C         |
| 1     | Business Analytics Essentials | 3 | 0 | 0 | 3         |
| 2     | AI Ethics                     | 2 | 0 | 0 | 2         |
| 3     | Capstone Project              | 0 | 0 | 5 | 5         |
| 4     | Pre-Dissertation              | 3 | 0 | 0 | 3         |
| 5     | Research Methodology          | 3 | 0 | 3 | 3         |
| 6     | Indian Knowledge System       | 3 | 0 | 0 | 3         |
|       | <b>Total Credits</b>          |   |   |   | <b>19</b> |

#### Semester IV

| SI No | Name of the Course   |   |   |    |           |
|-------|----------------------|---|---|----|-----------|
|       |                      | L | T | P  | C         |
| 1     | Desertation          | 0 | 0 | 20 | 20        |
|       | <b>Total Credits</b> |   |   |    | <b>20</b> |