**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS**

**M.Sc. DATA & BUSINESS ANALYTICS**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Course Work -Subject Area** | **Break Down of Credits** |
| 1 | Data and Business Analytics Core | 19 |
| 2 | Data and Business Analytics Electives | 12 |
| 3 | Skill Enhancement Core | 27 |
| 4 | Value Added Core | 2 |
| 5 | Capstone Project /Dissertation | 20 |
|  | **Total Credit** | **80** |

**Course Curriculum Semester Wise**

|  |
| --- |
| **SEMESTER I** |
| **Course Codes** | **Courses**  | **L** | **T** | **P** | **Credits** | **Type** |
| 25M31CA111 | Business Analytics using R | 2 | 0 | 0 | 2 | SEC |
| 25M35CA111 | Business Analytics using R (Lab) | 0 | 0 | 2 | 2 | SEC |
| 25M31CA112 | Business Statistics using Excel | 2 | 0 | 0 | 2 | SEC |
| 25M35CA112 | Business Statistics using Excel (Lab) | 0 | 0 | 2 | 2 | SEC |
| 25M31CA113 | Data Mining Tools & Techniques | 3 | 1 | 0 | 4 | PCC |
| 25M31CA114 | Design Thinking and Innovation | 2 | 0 | 0 | 2 | PCC |
| 25M31CA115 | Business Communication | 3 | 0 | 0 | 3 | SEC |
| 25M31CA116 | Introduction to Data Science | 3 | 0 | 0 | 3 | PCC |
|   | **Total Credits** |  |  |  | **20** |  |
| **Semester II** |
| **Course Codes** | **Courses** | **L** | **T** | **P** | **Credits** |   |
| XXXXXXXXX | Research Methods in Business  | 3 | 1 | 0 | 4 | PCC |
| XXXXXXXXX | Big Data and Data Visualization | 1 | 0 | 0 | 1 | SEC |
| XXXXXXXXX | Big Data and Data Visualization (Lab) | 0 | 0 | 2 | 2 | SEC |
| XXXXXXXXX | Data Management using SQL  | *2* | *0* | *0* | 2 | SEC |
| XXXXXXXXX | Data Management using SQL (Lab) | *0* | *0* | *2* | 2 | SEC |
| XXXXXXXXX | Digital Technology and Strategic Management | 3 | 0 | 0 | 3 | PCC |
| XXXXXXXXX | Elective 1 | 3 | 0 | 0 | 3 | PEC |
| XXXXXXXXX | Elective 2 | 3 | 0 | 0 | 3 | PEC |
|   | **Total Credits** |  |  |  | **20** |   |
| **Semester III** |
| **Course Codes** | **Courses** | **L** | **T** | **P** | **Credits** |   |
| XXXXXXXXX | Data Analytics using Python | 2 | 0 | 0 | 2 | SEC |
| XXXXXXXXX | Data Analytics using Python (Lab) | 0 | 0 | 1 | 1 | SEC |
| XXXXXXXXX | Predictive Analytics | 2 | 1 | 0 | 3 | PCC |
| XXXXXXXXX | Employability Skills | 2 | 0 | 0 | 2 | VAC |
| XXXXXXXXX | Elective 3 | 3 | 0 | 0 | 3 | PEC |
| XXXXXXXXX | Elective 4 | 3 | 0 | 0 | 3 | PEC |
| XXXXXXXXX | Corporate Internship |  |  |  | 6 | SEC |
|   | **Total Credits** |  |  |  | **20** |   |
| **Semester IV** |
| **Course Codes** | **Courses** | **L** | **T** | **P** | **Credits** |   |
| XXXXXXXXX | Capstone Project/Dissertation | 0 | 0 | 0 | 12 | Project |
| XXXXXXXXX | Term Paper | 0 | 0 | 0 | 8 |  |
|   | **Total Credits** |  |  |  | **20** |   |
|   | **Total Program Credits** |  |  |  | **80** |   |

**List of Electives**

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| --- | --- |
| * Marketing Analytics
 | * Supply Chain Analytics
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| * Big Data Analytics
 | * HR Analytics
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| * Financial Modeling
 | * Text Analytics
 |
| * Investment Banking Analytics
 | * Financial Management
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