

**Faculty of Science and Technology**

**Programme Structure**

For

First Year

**Bachelor of Technology (Artificial Intelligence and Data Science)**

Programme Code: BTECAD

Pattern 2024

With Effect from Academic Year 2025 – 2026

1. Title: Artificial Intelligence and Data Science Programme Structure Form No: IQAC-101

SEM-I

|  |  |  |  |
| --- | --- | --- | --- |
| **Faculty** | ***Science and Technology*** | **Pattern**  | 2024 |
| **Department** | **Engineering Sciences** | **Date (w.e.f.)** |  |
| **Programme** | **B.Tech (Artificial Intelligence and Data Science) (BTECAD)** |  |  |
| **Course Type** | **Course Code** | **Course Name** | **Teaching Scheme****(Hours/Week)** | **Credit** | **Examination Scheme and Marks** |
|  |  |  | **L** | **T** | **P** | **C** | **CIE** | **ESE** | **Total** |
| BSC | BTECAD24101 | Applied Mathematics | 3 | 1 | 0 | 4 | 60 | 40 | 100 |
| ESC | BTECAD24102 | Fundamental of Electronics | 3 | 0 | 0 | 3 | 60 | 40 | 100 |
| BSC | BTECAD24103 | Computer Organization | 2 | 0 | 0 | 2 | 50 | 00 | 50 |
| ESC | BTECAD24104 | Introduction to Computer Programming | 3 | 0 | 0 | 3 | 60 | 40 | 100 |
| ESC | BTECAD24105 | Fundamental of Electronics Lab | 0 | 0 | 2 | 1 | 15 | 10 | 25 |
| ESC | BTECAD24106 | Introduction to Computer Programming Lab | 0 | 0 | 2 | 1 | 15 | 10 | 25 |
| VSEC | BTECAD24107 | Web Technology Lab | 1 | 0 | 2 | 2 | 30 | 20 | 50 |
| CC | BTECAD24108 | Capstone Project - I | 0 | 0 | 4 | 2 | 50 | 00 | 50 |
|  | BTECAD24109 | Induction Training |  |  | 1\* | 0 |  |  | 00 |
| IKS | IKS24AI01 | Indian Knowledge System Concepts and Applications in Engineering | 2 | 0 | 0 | 2 | 50 | 00 | 50 |
|  |  | Total | 16 | 01 | 06 | 20 | 390 | 160 | 550 |
| **Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit** |

SEM-II

|  |  |  |  |
| --- | --- | --- | --- |
| **Faculty** | ***Science and Technology*** | **Pattern**  | 2024 |
| **Department** | **Engineering Sciences** | **Date (w.e.f.)** |  |
| **Programme** | **B.Tech (Artificial Intelligence and Data Science) (BTECAD)** |  |  |
| **Course Type** | **Course Code** | **Course Name** | **Teaching Scheme****(Hours/Week)** | **Credit** | **Examination Scheme and Marks** |
|  |  |  | **L** | **T** | **P** | **C** | **CIE** | **ESE** | **Total** |
| AEC | BTECAD24201 | Corporate Communication | 1 | 1 | 0 | 2 | 50 | 00 | 50 |
| ESC | BTECAD24201 | Prompt Engineering | 2 | 0 | 0 | 2 | 50 | 00 | 50 |
| BSC | BTECAD24202 | Linear Algebra andStatistics | 3 | 1 | 0 | 4 | 60 | 40 | 100 |
| BSC | BTECAD24203 | Processor Architecture | 3 | 0 | 0 | 3 | 60 | 40 | 100 |
| PCC | BTECAD24204 | LogicDevelopment and Programming | 2 | 0 | 0 | 2 | 30 | 20 | 50 |
| PCC | BTECAD24205 | Logic Development andProgramming Lab | 0 | 0 | 2 | 1 | 15 | 10 | 25 |
| BSC | BTECAD24206 | Processor Architecture Lab | 0 | 0 | 2 | 1 | 15 | 10 | 25 |
| VSEC | BTECAD24207 | Introduction to Microcontroller Programming Lab | 1 | 0 | 2 | 2 | 30 | 20 | 50 |
| ESC | BTECAD24208 | Technical Skill Development Lab-1(OOP using C++) | 0 | 0 | 2 | 1 | 15 | 10 | 25 |
| CC | BTECAD24209 | Capstone Project - II | 0 | 0 | 4 | 2 | 50 | 00 | 50 |
| AEC | AE24AI01 |  Corporate Communication | 1 | 1 | 0 | 2 | 50 | 00 | 50 |
|  |  | Total | 12 | 04 | 08 | 20 | 375 | 150 | 525 |
| **Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit** |

Head of the Department Dean

----------------------------------------------------------------------------------------------------------------------------------------------------------

ERP to provide document upload facility for evidencing – BoS meeting MoM, AC MoM, final approved grid with BoS chairman signature, etc.