

**Faculty of Science and Technology**

**Programme Structure**

For

Second 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-III

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Faculty** | | ***Science and Technology*** | | | | **Pattern** | | | | | 2024 | | |
| **Department** | | **Artificial Intelligence** | | | | **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** |
| PCC | BTECAD24301 | | Statistical Data Analysis | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| PCC | BTECAD24302 | | Statistical Data Analysis Lab | 0 | 0 | | 2 | 1 | 15 | 10 | | 25 |
| PCC | BTECAD24303 | | Data Structures | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| PCC | BTECAD24304 | | Data Structures Lab | 0 | 0 | | 2 | 1 | 15 | 10 | | 25 |
| HSSM | BTECAD24305 | | Financial Literacy and Banking | 2 | 0 | | 0 | 2 | 50 | 0 | | 50 |
| CEP/FP | BTECAD24306 | | Project Based Learning - Python | 0 | 0 | | 4 | 2 | 30 | 20 | | 50 |
| VEC | VE24AI01 | | Environmental Science-I | 2 | 0 | | 0 | 2 | 50 | 0 | | 50 |
| MC | MT24AI01A | | Discrete Structures | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| OE | OE24AI01 | | Ubiquitous Computing | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
|  |  | | Total | **16** | **0** | | **8** | **20** | **400** | **200** | | **600** |
| **Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit** | | | | | | | | | | | | |

Double Minor

|  |  |
| --- | --- |
| MT24AI01B | Cyber Security and Cyber Laws |

SEM-IV

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| **Faculty** | | ***Science and Technology*** | | | | **Pattern** | | | | | 2024 | |
| **Department** | | **Artificial Intelligence** | | | | **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** |
| PCC | BTECAD24401 | | Decision Support System | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| PCC | BTECAD24402 | | Decision Support System Lab | 0 | 0 | | 2 | 1 | 15 | 10 | | 25 |
| PCC | BTECAD24403 | | Database Management System | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| PCC | BTECAD24404 | | Database Management System Lab | 0 | 0 | | 2 | 1 | 15 | 10 | | 25 |
| VSEC | BTECAD24405 | | Technical Skill development Lab-2 (Java) | 1 | 0 | | 2 | 2 | 30 | 20 | | 50 |
| HSSM | BTECAD24406 | | Project Management | 2 | 0 | | 0 | 2 | 50 | 0 | | 50 |
| AEC | BTECAD24407 | | From Campus to Corporate – I | 2 | 0 | | 0 | 2 | 50 | 0 | | 50 |
| VEC | VE24AI02 | | Environmental Science-II | 2 | 0 | | 0 | 2 | 50 | 0 | | 50 |
| MC | MT24AI02A | | Theory of Computation | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
| OE | OE24AI02 | | Fundamentals of Data warehousing | 3 | 0 | | 0 | 3 | 60 | 40 | | 100 |
|  |  | | Total | **19** | **0** | | **6** | **22** | **450** | **200** | | **650** |
|  |  | |  |  |  | |  |  |  |  | |  |
| **Instructions, if any: 1 Theory/Tutorial Hour = 1 Credit, 2 Practical hours = 1 Credit** | | | | | | | | | | | | |

**Double Minor**

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| MT24AI02B | Information and Application Security |

Head of the Department Dean

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