

**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

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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  | 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

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| 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.