

# BIKANER TECHNICAL UNIVERSITY, BIKANER



**SCHEME**

**B. TECH.**

**ARTIFICIAL INTELLIGENCE**  
**Effective From Session: 2020-21**

**Teaching & Examination Scheme**  
**B. Tech.: Artificial Intelligence**  
**2<sup>nd</sup> Year - III Semester**

| THEORY                |                |                     |  |                  |          |           |          |            |            |             |             |
|-----------------------|----------------|---------------------|--|------------------|----------|-----------|----------|------------|------------|-------------|-------------|
| SN                    | Category       | Course              |  | Contact hrs/week |          |           | Marks    |            |            |             | Cr          |
|                       |                | Code                | Title  | L                | T        | P         | Exam Hrs | IA         | ETE        | Total       |             |
|                       |                |                     |  |                  |          |           |          |            |            |             |             |
| 1                     | BSC            | 3AI2-01             | Probability theory for Computer Scientists                                   | 3                | 0        | 0         | 3        | 30         | 120        | 150         | 3           |
| 2                     | HSMC           | 3AI1-02/<br>3AI1-03 | Technical Communication/<br>Managerial Economics and<br>Financial Accounting | 2                | 0        | 0         | 2        | 20         | 80         | 100         | 2           |
| 3                     | ESC            | 3AI3-04             | Digital Electronics  | 3                | 0        | 0         | 3        | 30         | 120        | 150         | 3           |
| 4                     | PCC            | 3AI4-05             | Data Structures and Algorithms   | 3                | 0        | 0         | 3        | 30         | 120        | 150         | 3           |
| 5                     |                | 3AI4-06             | Concepts in Artificial Intelligence  | 3                | 0        | 0         | 3        | 30         | 120        | 150         | 3           |
| 6                     |                | 3AI4-07             | Principles of Imperative Computation   | 3                | 0        | 0         | 3        | 30         | 120        | 150         | 3           |
|                       |                |                     | <b>Sub Total</b>   | <b>17</b>        | <b>0</b> | <b>0</b>  |          | <b>170</b> | <b>680</b> | <b>850</b>  | <b>17</b>   |
| PRACTICAL & SESSIONAL |                |                     |  |                  |          |           |          |            |            |             |             |
| 7                     | PCC<br><br>ESC | 3AI4-21             | Data Structures and Algorithms Lab   | 0                | 0        | 3         |          | 45         | 30         | 75          | 1.5         |
| 8                     |                | 3AI4-22             | Principles of Imperative Computation Lab                                     | 0                | 0        | 3         |          | 45         | 30         | 75          | 1.5         |
| 9                     |                | 3AI4-23             | Artificial Intelligence Lab  | 0                | 0        | 3         |          | 45         | 30         | 75          | 1.5         |
| 10                    |                | 3AI4-24             | Digital Electronics Lab  | 0                | 0        | 3         |          | 45         | 30         | 75          | 1.5         |
| 11                    | PSIT           | 3AI7-30             | Industrial Training  | 0                | 0        | 1         |          | 0          | 0          | 50          | 1           |
| 12                    | SODE<br>CA     | 3AI8-00             | Social Outreach,<br>Discipline & Extra<br>Curricular Activities              |                  |          |           |          |            |            | 25          | 0.5         |
|                       |                |                     | <b>Sub- Total</b>  | <b>0</b>         | <b>0</b> | <b>13</b> |          | <b>180</b> | <b>120</b> | <b>375</b>  | <b>7.5</b>  |
|                       |                |                     | <b>TOTAL OF III SEMESTER</b>   | <b>17</b>        | <b>0</b> | <b>13</b> |          | <b>350</b> | <b>800</b> | <b>1225</b> | <b>24.5</b> |

**L:** Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

**ETE:** End Term Exam, **IA:** Internal Assessment

**Teaching & Examination Scheme**  
**B. Tech.: Artificial Intelligence**  
**2nd Year - IV Semester**

| THEORY                       |            |                     |  |                  |          |           |          |            |            |             |             |
|------------------------------|------------|---------------------|--|------------------|----------|-----------|----------|------------|------------|-------------|-------------|
| SN                           | Category   | Course              |  | Contact hrs/week |          |           | Marks    |            |            |             | Cr          |
|                              |            | Code                | Title  | L                | T        | P         | Exam Hrs | IA         | ETE        | Total       |             |
|                              |            |                     |  |                  |          |           |          |            |            |             |             |
| 1                            | BSC        | 4AI2-01             | Discrete Mathematics Structure   | 3                | 0        | 0         | 3        | 30         | 120        | <b>150</b>  | 3           |
| 2                            | HSMC       | 4AI1-03/<br>4AI1-02 | Managerial Economics and Financial Accounting /Technical Communication | 2                | 0        | 0         | 2        | 20         | 80         | <b>100</b>  | 2           |
| 3                            | ESC        | 4AI3-04             | Modern Regression  | 3                | 0        | 0         | 3        | 30         | 120        | <b>150</b>  | 3           |
| 4                            | PCC        | 4AI4-05             | Database Management System   | 3                | 0        | 0         | 3        | 30         | 120        | <b>150</b>  | 3           |
| 5                            |            | 4AI4-06             | Human Information Processing and Artificial Intelligence               | 3                | 0        | 0         | 3        | 30         | 120        | <b>150</b>  | 3           |
| 6                            |            | 4AI4-07             | Introduction to Computer System  | 3                | 0        | 0         | 3        | 30         | 120        | <b>150</b>  | 3           |
| <b>Sub Total</b>             |            |                     |  | <b>17</b>        | <b>0</b> | <b>0</b>  |          | <b>170</b> | <b>680</b> | <b>850</b>  | <b>17</b>   |
| PRACTICAL & SESSIONAL        |            |                     |  |                  |          |           |          |            |            |             |             |
| 7                            | PCC        | 4AI4-21             | Python Programming Lab   | 0                | 0        | 3         |          | 45         | 30         | <b>75</b>   | 1.5         |
| 8                            |            | 4AI4-22             | Database Management System Lab   | 0                | 0        | 3         |          | 45         | 30         | <b>75</b>   | 1.5         |
| 9                            |            | 4AI4-23             | Open CV Lab  | 0                | 0        | 3         |          | 45         | 30         | <b>75</b>   | 1.5         |
| 10                           |            | 4AI4-24             | Modern Regression Lab  | 0                | 0        | 3         |          | 45         | 30         | <b>75</b>   | 1.5         |
| 11                           | SODE<br>CA | 4AI8-00             | Social Outreach, Discipline & Extra Curricular Activities              |                  |          |           |          |            |            | <b>25</b>   | 0.5         |
| <b>Sub- Total</b>            |            |                     |  | <b>0</b>         | <b>0</b> | <b>12</b> |          | <b>180</b> | <b>120</b> | <b>325</b>  | <b>6.5</b>  |
| <b>TOTAL OF IV SEMEESTER</b> |            |                     |  | <b>17</b>        | <b>0</b> | <b>12</b> |          | <b>350</b> | <b>800</b> | <b>1175</b> | <b>23.5</b> |

**L:** Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

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