

**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

**Teaching and Examination Scheme-2024-25**

**B.Tech\_Computer Science and Engineering-Artificial Intelligence**

| Sr. No. | Br. | YEAR | SEM. | Course Code                                 | Course Name                                                             | Category | Teaching Scheme |   |   | Exam Hrs. | Marks               |     |       | Credit      |
|---------|-----|------|------|---------------------------------------------|-------------------------------------------------------------------------|----------|-----------------|---|---|-----------|---------------------|-----|-------|-------------|
|         |     |      |      |                                             |                                                                         |          | L               | T | P |           | CIE                 | SEE | Total |             |
| 1       | AI  | II   | III  | HSUL301/HSUL302                             | Managerial Economics and Financial Accounting / Technical Communication | HSMC     | 1               | 0 | 0 | 3         | 40                  | 60  | 100   | 1           |
| 2       | AI  | II   | III  | MAUL301                                     | Statistics and Probability Theory                                       | BSC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 3       | AI  | II   | III  | CAUL301/ CSUL301/ CDUL301/ CIUL301/ ITUL301 | Data Structures and Algorithms                                          | PCC      | 3               | 1 | 0 | 3         | 40                  | 60  | 100   | 4           |
| 4       | AI  | II   | III  | CAUL302                                     | Foundation of Artificial Intelligence                                   | PCC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 5       | AI  | II   | III  | CAUL303/ CSUL303/ CDUL303/ CIUL303/ ITUL303 | Software Engineering and Project Management                             | PCC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 6       | AI  | II   | III  | CSUL304/ CAUL304/ CDUL304/ CIUL304/ ITUL304 | Digital Electronics                                                     | ESC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 7       | AI  | II   | III  | CAUP320                                     | Data Structures and Algorithms Lab                                      | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 8       | AI  | II   | III  | CAUP321                                     | Programming in Java Lab                                                 | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 9       | AI  | II   | III  | CAUP322                                     | Logic Programming Lab                                                   | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 10      | AI  | II   | III  | CAUP323                                     | Digital Electronics Lab                                                 | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 11      | AI  | II   | III  | CAUT330                                     | Industrial Training                                                     | PSIT     | 0               | 0 | 1 | 2         | 60                  | 40  | 100   | 1           |
| 12      | AI  | II   | III  | CAUA300                                     | Social Outreach, Discipline and Extra Curricular Activities             | SODECA   | -               | - | - | -         | -                   | -   | 100   | 0.5         |
| 13      | CSE | II   | III  | NU99.4/ NU99.5                              | Technical Training/ Soft Skills Training                                |          | -               | - | - | 3         | 60                  | 40  | 100   | 0           |
|         |     |      |      |                                             |                                                                         |          |                 |   |   |           | <b>Total Credit</b> |     |       | <b>24.5</b> |

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|---------|-----|------|------|---------------------------------------------|-------------------------------------------------------------------------|----------|-----------------|---|---|-----------|---------------------|-----|-------|-------------|
|         |     |      |      |                                             |                                                                         |          | L               | T | P |           | CIE                 | SEE | Total |             |
| 1       | AI  | II   | IV   | HSUL401/HSUL402                             | Managerial Economics and Financial Accounting / Technical Communication | HSMC     | 1               | 0 | 0 | 3         | 40                  | 60  | 100   | 1           |
| 2       | AI  | II   | IV   | MAUL402                                     | Discrete Mathematics and Linear Algebra                                 | BSC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 3       | AI  | II   | IV   | CAUL401/ CSUL401/ CDUL401/ CIUL401/ ITUL401 | Database Management System                                              | PCC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 4       | AI  | II   | IV   | CAUL402/ CDUL402                            | Full Stack Development                                                  | PCC      | 2               | 0 | 0 | 3         | 40                  | 60  | 100   | 2           |
| 5       | AI  | II   | IV   | CAUL403/ CSUL403/ CDUL403/ CIUL403/ ITUL403 | Computer Networks                                                       | PCC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 6       | AI  | II   | IV   | CAUL404/ CSUL302/ CDUL404/ CIUL404/ ITUL302 | Operating System                                                        | PCC      | 3               | 0 | 0 | 3         | 40                  | 60  | 100   | 3           |
| 7       | AI  | II   | IV   | CSUL405/ CAUL405/ CDUL405/ CIUL405/ ITUL405 | Computer Architecture & Microprocessor                                  | ESC      | 2               | 0 | 0 | 3         | 40                  | 60  | 100   | 2           |
| 8       | AI  | II   | IV   | CAUP420                                     | Database Systems Lab                                                    | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 9       | AI  | II   | IV   | CAUP421                                     | Full Stack Development Lab                                              | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 10      | AI  | II   | IV   | CAUP422                                     | Microprocessor Lab                                                      | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 11      | AI  | II   | IV   | CAUP423                                     | Data Analytics and Visualization Lab                                    | PCC      | 0               | 0 | 3 | 3         | 60                  | 40  | 100   | 1.5         |
| 12      | AI  | II   | IV   | CAUA400                                     | Social Outreach, Discipline and Extra Curricular Activities             | SODECA   | -               | - | - | -         | -                   | -   | 100   | 0.5         |
| 13      | CSE | II   | IV   | NU99.4/ NU99.5                              | Technical Training/ Soft Skills Training                                |          | -               | - | - | 3         | 60                  | 40  | 100   | 0           |
|         |     |      |      |                                             |                                                                         |          |                 |   |   |           | <b>Total Credit</b> |     |       | <b>23.5</b> |