

**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)  
**Teaching and Examination Scheme (For Students Admitted in A.Y. 2024-25 & onwards)**  
**B.Tech\_Computer Science and Engineering (IOT)**

| B.Tech. III Year (Semester V) |     |      |      |                                             |                                                             |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        |       |
|-------------------------------|-----|------|------|---------------------------------------------|-------------------------------------------------------------|----------|----------------------------------------------------|---|----------------------------------------------|------------------------------------------------------------------------|-----------|---------------------------------|-----|-----|--------|-------|
| Sr. No.                       | Br. | YEAR | SEM. | Course Code                                 | Course Name                                                 | Category | Teaching & Learning Scheme                         |   |                                              |                                                                        | Exam Hrs. | Marks                           |     |     | Credit |       |
|                               |     |      |      |                                             |                                                             |          | Classroom Instruction (CI) (in hours per semester) |   | Lab Instruction (LI) (in hours per semester) | Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester) |           | Total no. of Hours per semester | CIE | SEE |        | Total |
|                               |     |      |      |                                             |                                                             |          | L                                                  | T | P                                            | SL                                                                     |           |                                 |     |     |        |       |
| 1                             | IOT | III  | V    | CIUL501                                     | Embedded System Design                                      | ESC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 2                             | IOT | III  | V    | CIUL502/ CSUL502/ CAUL502/ CDUL502/ ITUL502 | Machine Learning                                            | PCC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 3                             | IOT | III  | V    | CIUL503/ CAUL503/ CDUL503                   | Automata Theory and Compiler Design                         | PCC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 4                             | IOT | III  | V    | CIUL504/ CSUL404/ CDUL504/ ITUL404          | Artificial Intelligence                                     | PCC      | 30                                                 | 0 | 0                                            | 30                                                                     | 60        | 3                               | 40  | 60  | 100    | 2     |
| 5                             | IOT | III  | V    | CIUL511/ CSUL511/ CDUL614/ CAUL614          | DevOps Practices and Principles                             | PEC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
|                               |     |      |      | CIUL512/ CSUL503/ CAUL512/ CDUL512/ ITUL511 | Cryptography and Network Security                           |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        |       |
| 6                             | IOT | III  | V    |                                             | Open Elective                                               | OEC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 7                             | IOT | III  | V    | CIUP520                                     | Embedded System Design Lab                                  | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 8                             | IOT | III  | V    | CIUP521                                     | Machine Learning Lab                                        | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 9                             | IOT | III  | V    | CIUP522                                     | Compiler Design Lab                                         | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 10                            | IOT | III  | V    | CIUP523                                     | Programming for Problem Solving-I Lab                       | PSIT     | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 11                            | IOT | III  | V    | CIUT530                                     | Industrial Training                                         | PSIT     | 30                                                 | 0 | 0                                            | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 2     |
| 12                            | IOT | III  | V    | CIUA500                                     | Social Outreach, Discipline and Extra Curricular Activities | SODECA   | -                                                  | - | -                                            |                                                                        |           | -                               | -   | -   | 100    | 0.5   |
| 13                            | IOT | III  | V    | NU99.6/ NU99.7                              | Audit Course                                                |          | -                                                  | - | -                                            |                                                                        |           | 3                               | 60  | 40  | 100    | 0     |
| Total Credit                  |     |      |      |                                             |                                                             |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        | 23.5  |

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**B.Tech\_Computer Science and Engineering (IOT)**

| B.Tech. III Year (Semester VI) |     |      |      |                                             |                                                             |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        |       |
|--------------------------------|-----|------|------|---------------------------------------------|-------------------------------------------------------------|----------|----------------------------------------------------|---|----------------------------------------------|------------------------------------------------------------------------|-----------|---------------------------------|-----|-----|--------|-------|
| Sr. No.                        | Br. | YEAR | SEM. | Course Code                                 | Course Name                                                 | Category | Teaching & Learning Scheme                         |   |                                              |                                                                        | Exam Hrs. | Marks                           |     |     | Credit |       |
|                                |     |      |      |                                             |                                                             |          | Classroom Instruction (CI) (in hours per semester) |   | Lab Instruction (LI) (in hours per semester) | Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester) |           | Total no. of Hours per semester | CIE | SEE |        | Total |
|                                |     |      |      |                                             |                                                             |          | L                                                  | T | P                                            | SL                                                                     |           |                                 |     |     |        |       |
| 1                              | IOT | III  | VI   | CIUL601/ CSUL501/ CAUL501/ CDUL501/ ITUL501 | Design and Analysis of Algorithms                           | PCC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 2                              | IOT | III  | VI   | CIUL602/ CSUL701/ CDUL602/ CAUL602/ ITUL701 | Internet of Things                                          | PCC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 3                              | IOT | III  | VI   | CIUL603                                     | IoT with Cloud Computing                                    | PCC      | 30                                                 | 0 | 0                                            | 30                                                                     | 60        | 3                               | 40  | 60  | 100    | 2     |
| 4                              | IOT | III  | VI   | CIUL611/ CDUL603/ CSUL603/ CAUL603/ ITUL611 | Deep Learning                                               | PEC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
|                                |     |      |      | CIUL612/ CSUL612/ CAUL612/ CDUL612/ ITUL512 | Parallel and Distributed Computing                          |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        |       |
| 5                              | IOT | III  | VI   | CIUL613/ CSUL512/ ITUL614                   | Wireless Networks                                           | PEC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
|                                |     |      |      | CIUL614/ CSUL614/ CAUL511/ CDUL511          | Social Network Analysis                                     |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        |       |
| 6                              | IOT | III  | VI   |                                             |                                                             | OEC      | 45                                                 | 0 | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100    | 3     |
| 7                              | IOT | III  | VI   | CIUP620                                     | Design and Analysis of Algorithms Lab                       | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 8                              | IOT | III  | VI   | CIUP621                                     | Internet of Things Lab                                      | PCC      | 0                                                  | 0 | 45                                           | -                                                                      | 45        | 3                               | 60  | 40  | 100    | 1.5   |
| 9                              | IOT | III  | VI   | CIUP622                                     | Deep Learning Lab                                           | PCC      | 0                                                  | 0 | 45                                           | -                                                                      | 45        | 3                               | 60  | 40  | 100    | 1.5   |
| 10                             | IOT | III  | VI   | CIUP623                                     | Advance Java Lab                                            | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 11                             | IOT | III  | VI   | CIUP624                                     | Programming for Problem Solving-II Lab                      | PCC      | 0                                                  | 0 | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100    | 1     |
| 12                             | IOT | III  | VI   | CSUA600                                     | Social Outreach, Discipline and Extra Curricular Activities | SODECA   | -                                                  | - | -                                            |                                                                        |           | -                               | -   | -   | 100    | 0.5   |
| 13                             | IOT | III  | VI   | NU99.6/ NU99.7                              | Audit Course                                                |          | -                                                  | - | -                                            |                                                                        |           | 3                               | 60  | 40  | 100    | 0     |
| Total Credit                   |     |      |      |                                             |                                                             |          |                                                    |   |                                              |                                                                        |           |                                 |     |     |        | 23.5  |