

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

**B.Tech. Civil Engineering**

**B.Tech. II Year (Semester III)**

| B.Tech. II Year (Semester III) |       |      |      |                  |                                                                        |          |                                                    |                                              |                                                                        |                                 |           |       |     |       |         |      |
|--------------------------------|-------|------|------|------------------|------------------------------------------------------------------------|----------|----------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|---------------------------------|-----------|-------|-----|-------|---------|------|
| Sr. No.                        | Br.   | Year | Sem. | Course Code      | Course Name                                                            | Category | Teaching & Learning Scheme                         |                                              |                                                                        |                                 | Exam Hrs. | Marks |     |       | Credits |      |
|                                |       |      |      |                  |                                                                        |          | 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    |
| 1                              | CE    | II   | III  | HSUL301/ HSUL302 | Managerial Economics and Financial Accounting/ Technical Communication | HSMC     | 15                                                 | 0                                            | 0                                                                      | 15                              | 30        | 3     | 40  | 60    | 100     | 1    |
| 2                              | CE    | II   | III  | MAUL305          | Advanced Engineering Mathematics-I                                     | BSC      | 45                                                 | 15                                           | 0                                                                      | 60                              | 120       | 3     | 40  | 60    | 100     | 4    |
| 3                              | CE    | II   | III  | CEUL301          | Strength of Materials                                                  | PCC      | 45                                                 | 15                                           | 0                                                                      | 60                              | 120       | 3     | 40  | 60    | 100     | 4    |
| 4                              | CE    | II   | III  | CEUL302          | Surveying                                                              | PCC      | 45                                                 | 0                                            | 0                                                                      | 45                              | 90        | 3     | 40  | 60    | 100     | 3    |
| 5                              | CE    | II   | III  | CEUL303          | Building Materials and Construction                                    | PCC      | 45                                                 | 0                                            | 0                                                                      | 45                              | 90        | 3     | 40  | 60    | 100     | 3    |
| 6                              | CE    | II   | III  | CEUL304          | Engineering Geology                                                    | ESC      | 30                                                 | 0                                            | 0                                                                      | 30                              | 60        | 3     | 40  | 60    | 100     | 2    |
| 7                              | CE    | II   | III  | CEUP320          | Surveying Lab                                                          | PCC      | 0                                                  | 0                                            | 45                                                                     | -                               | 45        | 3     | 60  | 40    | 100     | 1.5  |
| 8                              | CE    | II   | III  | CEUP321          | Professional Development Lab                                           | PCC      | 0                                                  | 0                                            | 30                                                                     | -                               | 30        | 3     | 60  | 40    | 100     | 1    |
| 9                              | CE    | II   | III  | CEUP322          | Geology Lab                                                            | ESC      | 0                                                  | 0                                            | 30                                                                     | -                               | 30        | 3     | 60  | 40    | 100     | 1    |
| 10                             | CE    | II   | III  | CEUP323          | Building Planning and Drafting Lab-I                                   | ESC      | 0                                                  | 0                                            | 45                                                                     | -                               | 45        | 3     | 60  | 40    | 100     | 1.5  |
| 11                             | CE    | II   | III  | CEUP324          | Building Material Testing Lab                                          | PCC      | 0                                                  | 0                                            | 30                                                                     | -                               | 30        | 3     | 60  | 40    | 100     | 1    |
| 12                             | CE    | II   | III  | CEUT330          | Industrial Training                                                    | PSIT     | 0                                                  | 0                                            | 30                                                                     | -                               | 30        | 3     | 60  | 40    | 100     | 1    |
| 13                             | CE    | II   | III  | CEUA300          | Social Outreach, Discipline & Extra Curricular Activities              | SODECA   | -                                                  | -                                            | -                                                                      | -                               | -         | -     | -   | -     | 100     | 0.5  |
| 14                             | CE    | II   | III  | NU99.5 / NU99.4  | Soft Skills Training /Technical Training                               | NC       | -                                                  | -                                            | -                                                                      | -                               | -         | -     | 40  | 60    | 100     | 0    |
|                                | Total |      |      |                  |                                                                        |          |                                                    |                                              |                                                                        |                                 |           |       |     |       |         | 24.5 |

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(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)  
**Teaching and Examination Scheme (For Students Admitted in A.Y. 2024-25 & onwards)**

**B.Tech. Civil Engineering**

**B.Tech. II Year (Semester IV)**

| B.Tech. II Year (Semester IV) |       |      |      |                  |                                                                        |          |                                                    |    |                                              |                                                                        |           |                                 |     |     |         |       |
|-------------------------------|-------|------|------|------------------|------------------------------------------------------------------------|----------|----------------------------------------------------|----|----------------------------------------------|------------------------------------------------------------------------|-----------|---------------------------------|-----|-----|---------|-------|
| Sr. No.                       | Br.   | Year | Sem. | Course Code      | Course Name                                                            | Category | Teaching & Learning Scheme                         |    |                                              |                                                                        | Exam Hrs. | Marks                           |     |     | Credits |       |
|                               |       |      |      |                  |                                                                        |          | 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                             | CE    | II   | IV   | HSUL401/ HSUL402 | Managerial Economics and Financial Accounting/ Technical Communication | HSMC     | 15                                                 | 0  | 0                                            | 15                                                                     | 30        | 3                               | 40  | 60  | 100     | 1     |
| 2                             | CE    | II   | IV   | MAUL403          | Advanced Engineering Mathematics-II                                    | BSC      | 45                                                 | 0  | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100     | 3     |
| 3                             | CE    | II   | IV   | CEUL401          | Structural Analysis-I                                                  | PCC      | 45                                                 | 0  | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100     | 3     |
| 4                             | CE    | II   | IV   | CEUL402          | Fluid Mechanics and Hydraulic Engineering                              | PCC      | 45                                                 | 15 | 0                                            | 60                                                                     | 120       | 3                               | 40  | 60  | 100     | 4     |
| 5                             | CE    | II   | IV   | CEUL403          | Concrete Technology                                                    | ESC      | 45                                                 | 0  | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100     | 3     |
| 6                             | CE    | II   | IV   | CEUL404          | Environmental Engineering                                              | PCC      | 45                                                 | 0  | 0                                            | 45                                                                     | 90        | 3                               | 40  | 60  | 100     | 3     |
| 7                             | CE    | II   | IV   | CEUP420          | Fluid Mechanics and Hydraulic Engineering Lab                          | PCC      | 0                                                  | 0  | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100     | 1     |
| 8                             | CE    | II   | IV   | CEUP421          | Concrete Lab                                                           | ESC      | 0                                                  | 0  | 45                                           | -                                                                      | 45        | 3                               | 60  | 40  | 100     | 1.5   |
| 9                             | CE    | II   | IV   | CEUP422          | Building Planning and Drafting Lab-II                                  | PCC      | 0                                                  | 0  | 45                                           | -                                                                      | 45        | 3                               | 60  | 40  | 100     | 1.5   |
| 10                            | CE    | II   | IV   | CEUP423          | Environmental Engineering Lab                                          | PCC      | 0                                                  | 0  | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100     | 1     |
| 11                            | CE    | II   | IV   | CEUP424          | Structural Engineering Lab                                             | PCC      | 0                                                  | 0  | 30                                           | -                                                                      | 30        | 3                               | 60  | 40  | 100     | 1     |
| 12                            | CE    | II   | IV   | CEUA400          | Social Outreach, Discipline & Extra Curricular Activities              | SODECA   | -                                                  | -  | -                                            | -                                                                      | -         | -                               | -   | -   | 100     | 0.5   |
| 13                            | CE    | II   | IV   | NU99.4 / NU99.5  | Technical Training /Soft Skills Training                               | NC       | -                                                  | -  | -                                            | -                                                                      | -         | -                               | 40  | 60  | 100     | 0     |
|                               | Total |      |      |                  |                                                                        |          |                                                    |    |                                              |                                                                        |           |                                 |     |     |         | 23.5  |