

## 2.0 PROGRAM STRUCTURE

(L = Lecture; S = Studio; P = Practical; C = Credits; MLC = Mandatory Learning Course;  
I.A. = Internal Assessment; E.A. = External Assessment; S/NS = Satisfactory/ Non  
Satisfactory)

### FIRST YEAR / SEMESTER ONE

| SL. NO.      | COURSE CODE | COURSE NAME  | L  | S  | P | C  | I.A. | E.A. | T   | END SEM THEORY | END SEM VIVA | EXAM DURATION (HRS) |
|--------------|-------------|--|----|----|---|----|------|------|-----|----------------|--------------|---------------------|
| 1            | SD 6501     | Integrated Sustainable Project- I                        | 3  | 4  | 0 | 7  | 100  | 100  | 200 | -              | 100          | -                   |
| 2            | SD 6503     | Thermal Performance in Built Environment                 | 2  | 2  | 2 | 5  | 50   | 50   | 100 | 50             | -            | 3 Hrs.              |
| 3            | SD 6505     | Sustainable Lighting & Visualization (Theory and VR lab) | 1  | 1  | 2 | 3  | 50   | 50   | 100 | 50             | -            | 3 Hrs.              |
| 4            | SD 6507     | Research Methodology                                     | 3  | 1  | 0 | 4  | 100  | -    | 100 | -              | -            | -                   |
| 5            | SD 6509     | Data Science & Analytics                                 | 1  | 2  | 0 | 3  | 100  | -    | 100 | -              | -            | -                   |
| <b>TOTAL</b> |             |  | 10 | 10 | 4 | 22 | 400  | 200  | 600 | 100            | 100          | -                   |

### FIRST YEAR / SEMESTER TWO

| SL. NO. | COURSE CODE | COURSE NAME                                       | L | S | P | C | I.A. | E.A. | T   | END SEM THEORY | END SEM VIVA | EXAM DURATION (HRS) |
|---------|-------------|---|---|---|---|---|------|------|-----|----------------|--------------|---------------------|
| 1       | SD 6502     | Integrated Sustainable Project- II                | 3 | 4 | 0 | 7 | 100  | 100  | 200 | -              | 100          | -                   |
| 2       | SD 6504     | High Performance Building Simulation (Design lab) | 2 | 2 | 2 | 5 | 100  | -    | 100 | -              | -            | -                   |

|               |         |  |          |          |          |           |            |            |            |            |            |        |
|---------------|---------|--|----------|----------|----------|-----------|------------|------------|------------|------------|------------|--------|
| 3             | SD 6506 | Intelligent Building Systems & Services (Design Lab) | 1        | 1        | 2        | 3         | 50         | 50         | 100        | 50         | -          | 3 Hrs. |
| 4             | SD 6508 | Energy Economics and Policies                        | 2        | 1        | 0        | 3         | 50         | 50         | 100        | 50         | -          | 3 Hrs. |
| 5             | -       | Program Electives- (Knowledge Based)                 | -        | -        | -        | 2         | 100        | -          | 100        | -          | -          | -      |
|               | SD 6510 | Sustainable Materials & products                     | 1        | 1        | 0        | 2         | 100        | -          | 100        | -          | -          | -      |
|               | SD 6512 | Sustainable Environment & Waste Management           | 1        | 1        | 0        | 2         | 100        | -          | 100        | -          | -          | -      |
|               | SD 6514 | Building Acoustic Performance                        | 1        | 1        | 0        | 2         | 100        | -          | 100        | -          | -          | -      |
|               | SD 6516 | Net Zero Building Strategies                         | 1        | 1        | 0        | 2         | 100        | -          | 100        | -          | -          | -      |
| <b>TOTAL*</b> |         |  | <b>8</b> | <b>8</b> | <b>4</b> | <b>20</b> | <b>400</b> | <b>200</b> | <b>600</b> | <b>100</b> | <b>100</b> |        |

Summer break will have a mandatory internship:

- Industry internship Final Project (Design)
- Research internship for Thesis (Research)

\* Hours for elective are not included in total hours of a semester

### SECOND YEAR / SEMESTER THREE

| SL. NO. | COURSE CODE | COURSE NAME   | L | S | P | C | I.A. | E.A. | T   | END SEM THEORY | END SEM VIVA | EXAM DURATION (HRS) |
|---------|-------------|---|---|---|---|---|------|------|-----|----------------|--------------|---------------------|
| 1       | SD 7001     | Integrated Sustainable Project- III                 | 3 | 4 | 0 | 7 | 100  | 100  | 200 | -              | 100          | -                   |
| 2       | SD 7003     | High Performance Building Optimization (Design lab) | 2 | 2 | 2 | 5 | 100  | -    | 100 | -              | -            | -                   |

|               |         |   |          |           |          |           |            |            |            |          |            |   |
|---------------|---------|---|----------|-----------|----------|-----------|------------|------------|------------|----------|------------|---|
| 3             | SD 7005 | Thesis Seminar                              | 0        | 4         | 0        | 4         | 100        | -          | 100        | -        | -          | - |
| 4             | SD 7007 | Professional Training (Summer Internship)   | 0        | 0         | 0        | 2         | -          | #MLC       | -          | -        | S/NS       | - |
| 5             | ***     | Program Electives- II (Skill Based)         | -        | -         | -        | 2         | 100        | -          | 100        | -        | -          | - |
|               | SD 7009 | Professional Communication Skills           | 1        | 1         | 0        | 2         | 100        | -          | 100        | -        | -          | - |
|               | SD 7011 | Geospatial Analysis: GIS and Remote Sensing | 1        | 0         | 2        | 2         | 100        | -          | 100        | -        | -          | - |
|               | SD 7013 | Sustainable Business Management & Practices | 1        | 1         | 0        | 2         | 100        | -          | 100        | -        | -          | - |
|               | SD 7015 | Design for Sustainability                   | 1        | 0         | 2        | 2         | 100        | -          | 100        | -        | -          | - |
| <b>TOTAL*</b> |         |   | <b>5</b> | <b>10</b> | <b>2</b> | <b>20</b> | <b>400</b> | <b>100</b> | <b>500</b> | <b>-</b> | <b>100</b> |   |

\* Hours for elective are not included in total hours of a semester

### SECOND YEAR / SEMESTER FOUR

| SL. NO.      | COURSE CODE | COURSE NAME                                 | L        | S         | P        | C         | I.A.       | E.A.       | T          | END SEM THEORY | END SEM VIVA | EXAM DURATION (HRS) |
|--------------|-------------|---|----------|-----------|----------|-----------|------------|------------|------------|----------------|--------------|---------------------|
| 1            | SD 7002     | Thesis (Research) or Final Project (Design) | 0        | 18        | 0        | 18        | 200        | 200        | 400        | -              | 200          | -                   |
| <b>TOTAL</b> |             |   | <b>0</b> | <b>18</b> | <b>0</b> | <b>18</b> | <b>200</b> | <b>200</b> | <b>400</b> | <b>-</b>       | <b>200</b>   |                     |