



Integral University
Study & Evaluation Scheme
B. Tech. (Computer Science & Engineering)
w.e.f. 2020-2021

Year III, Semester V

| S. No. | Course Category | Subject Code | Name of Subject | Periods | | | | | | Evaluation Scheme | | | Subject Total | Attributes | | | | | | United Nations Sustainable Development Goals (SDGs) | | | |
|--|-----------------|------------------------------------|---|---------------------|----------|----------|-----------|----------------------|------------|-------------------|----------------------|--|---------------|------------------|-------------------|------------------------|------------------------------|-------------|---------------------|---|----------------|----------------------|--------------|
| | | | | L | T | P | C | CT | TA | Total | End Sem. Exam. (ESE) | Employability | | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics | | | | |
| | | | | | | | | | | | | | | | | | | | | | Sessional (CA) | End Sem. Exam. (ESE) | Goals (SDGs) |
| 1 | DC | CS-301 | Design and Analysis of Algorithm | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | √ | | | | | | | 4,9 | |
| 2 | DC | CS-303 | Principles of Operating System | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | √ | | | | | | | 4,9 | |
| 3 | DC | CS-304 | Theory of Automata and Formal Languages | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | √ | | | | | | | 4 | |
| 4 | DC | CS340 | Software Engineering | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | √ | | √ | | | | | | | 4,9 | |
| 5 | DE | | Departmental Elective-1* | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | | | | | | | | | |
| 6 | DE | | Departmental Elective-2* | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | | | | | | | | | |
| 7 | DC | CS-343 | Visual Programming Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | √ | | √ | | | | | | | 4,9 | |
| 8 | DC | CS-310 | Open Source Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | √ | √ | √ | | | | | | | 9 | |
| 9 | DC | CS-302 | Design and Analysis of Algorithm Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | | | √ | | | | | | | 9 | |
| Total | | | | 18 | 6 | 6 | 27 | 330 | 210 | 540 | 360 | 900 | | | | | | | | | | | |
| Departmental Elective-1* | CS-334 | Cloud Computing | | | | | | | | | | | | | √ | | | | | | | 4,9,11 | |
| | CS341 | Introduction to Internet of Things | | | | | | | | | | | | | √ | | | | | | | 4,9 | |
| Departmental Elective-2* | CS-312 | Digital Image Processing | | | | | | | | | | | √ | | √ | | | | | | | 4 | |
| | CS342 | Data Compression | | | | | | | | | | | | | √ | | | | | | | 4 | |
| L - Lecture | | | | T - Tutorial | | | | P - Practical | | | | C - Credits | | | | CT - Class Test | | | | TA - Teacher Assessment | | | |
| Sessional Total (CA) = Class Test (CT) + Teacher Assessment (TA) | | | | | | | | | | | | | | | | | | | | | | | |
| Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE) | | | | | | | | | | | | | | | | | | | | | | | |
| BS - Basic Sciences | | | | | | | | | | | | DC - Departmental Core | | | | | | | | | | | |
| HM - Humanities | | | | | | | | | | | | OE - Open Elective | | | | | | | | | | | |
| DE - Departmental Elective | | | | | | | | | | | | ESA - Engineering Sciences & Arts (Foundation Course & Engineering Course) | | | | | | | | | | | |



Integral University
Study & Evaluation Scheme
B. Tech. (Computer Science & Engineering)
w.e.f. 2020-2021

Year III, Semester VI

| S. No. | Course Category | Subject Code | Name of Subject | Periods | | | | Evaluation Scheme | | | Subject Total | Attributes | | | | | | | United Nations Sustainable Development Goals (SDGs) | | | | |
|--|-----------------|---------------------------------------|--------------------------------------|----------------------|----------|--|-----------|----------------------|------------|------------|---------------|--------------------|---|---|---|------------------------|----|-------|---|--------------------------------|------------------|-------------------|-----------------|
| | | | | | | | | | | | | L | T | P | C | CT | TA | Total | | Employability | Entrepreneurship | Skill Development | Gender Equality |
| | | | | End Sem. Exam. (ESE) | | | | | | | | | | | | | | | | | | | |
| 1 | DC | CS-313 | Microprocessor and its Applications | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | √ | | | | | | | 4,9 | |
| 2 | DC | CS-315 | Compiler Design | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | √ | | | | | | | | 4,9 |
| 3 | DC | CS305 | Computer Networks | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | √ | √ | √ | | | | | | | | 4,9 |
| 4 | OE | | Open Elective-1** | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | | | | | | | | | |
| 5 | DE | | Departmental Elective-3* | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | | | | | | | | | |
| 6 | DE | | Departmental Elective-4* | 3 | 1 | 0 | 4 | 40 | 20 | 60 | 40 | 100 | | | | | | | | | | | |
| 7 | DC | CS-316 | Compiler Design Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | | | √ | | | | | | | | 4,9 |
| 8 | DC | CS-314 | Microprocessor Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | √ | | √ | | | | | | | | 4,9 |
| 9 | DC | CS-306 | Computer Networks Lab | 0 | 0 | 2 | 1 | 30 | 30 | 60 | 40 | 100 | √ | √ | √ | | | | | | | | 4,9 |
| 10 | DC | CS-386 | Comprehensive Annual Assessment - II | 0 | 0 | 0 | 1 | 0 | 100 | 100 | 0 | 100 | √ | | √ | | | | | | | | 4 |
| Total | | | | 18 | 6 | 6 | 28 | 330 | 310 | 640 | 360 | 1000 | | | | | | | | | | | |
| Departmental Elective-3* | CS-345 | Advance Computer Architecture | | | | | | | | | | | | | √ | | | | | | | | 4,9 |
| | CS-320 | Real Time System | | | | | | | | | | | | | √ | | | | | | | | 4 |
| | CS-346 | Concepts in Advanced Database System | | | | | | | | | | | √ | | √ | | | | | | | | 4 |
| Departmental Elective-4* | CS-311 | Software Project & Quality Management | | | | | | | | | | | √ | | √ | | | | | | | | 4 |
| | CS-347 | Green Computing | | | | | | | | | | | | | √ | | √ | √ | | | | | 11,13 |
| | CS-348 | Human Computer Interaction | | | | | | | | | | | | | √ | | √ | | | | | | 11,12 |
| L - Lecture | | | | T - Tutorial | | | | P - Practical | | | | C - Credits | | | | CT - Class Test | | | | TA - Teacher Assessment | | | |
| Sessional Total (CA) = Class Test (CT) + Teacher Assessment (TA) | | | | | | | | | | | | | | | | | | | | | | | |
| Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE) | | | | | | | | | | | | | | | | | | | | | | | |
| BS - Basic Sciences | | | | | | DC - Departmental Core | | | | | | | | | | | | | | | | | |
| HM - Humanities | | | | | | OE - Open Elective | | | | | | | | | | | | | | | | | |
| DE - Departmental Elective | | | | | | ESA - Engineering Sciences & Arts (Foundation Course & Engineering Course) | | | | | | | | | | | | | | | | | |