



### GANPAT UNIVERSITY

### FACULTY OF COMPUTER APPLICATIONS

### TEACHING AND EXAMINATION SCHEME

| Programme                                       |              | BCA Honors (Artificial Intelligence & Machine Learning) |                 |           |       | Branch/Spec.                        |    | Computer Applications |                  |    |       |                 |    |       |                            |           |       |  |
|-------------------------------------------------|--------------|---------------------------------------------------------|-----------------|-----------|-------|-------------------------------------|----|-----------------------|------------------|----|-------|-----------------|----|-------|----------------------------|-----------|-------|--|
| Semester                                        |              | II                                                      |                 |           |       |                                     |    |                       |                  |    |       |                 |    |       |                            |           |       |  |
| Effective from Academic Year                    |              |                                                         |                 | 2026-2027 |       | Effective for the batch Admitted in |    |                       |                  |    |       |                 |    |       |                            | June 2026 |       |  |
| Type of Course                                  | Subject Code | Subject Name                                            | Teaching scheme |           |       |                                     |    |                       |                  |    |       |                 |    |       | Examination scheme (Marks) |           |       |  |
|                                                 |              |                                                         | Credit          |           |       |                                     |    |                       | Hours (per week) |    |       |                 |    |       |                            |           |       |  |
|                                                 |              |                                                         | Lecture(DT)     |           |       | Practical(Lab.)                     |    |                       | Lecture(DT)      |    |       | Practical(Lab.) |    |       | CE                         | SEE       | Total |  |
|                                                 |              |                                                         | L               | TU        | Total | P                                   | TW | Total                 | L                | TU | Total | P               | TW | Total |                            |           |       |  |
| Major                                           | U92A1OOP     | OBJECT ORIENTED PROGRAMMING LANGUAGE                    | 2               |           | 2     | 2                                   |    | 2                     | 2                |    | 2     | 4               |    | 4     | 50                         | 50        | 100   |  |
| Major                                           | U92A2DFS     | DATA AND FILE STRUCTURE                                 | 2               |           | 2     | 2                                   |    | 2                     | 2                |    | 2     | 4               |    | 4     | 50                         | 50        | 100   |  |
| Minor                                           |              | ELECTIVE-2                                              | 4               |           | 4     | -                                   |    | -                     | 4                |    | 4     | -               |    | -     | 50                         | 50        | 100   |  |
| Inter Disciplinary / Multi-Disciplinary Courses | U92C4DMS     | DISCRETE MATHEMATICS AND STATISTICAL COMPUTATION        | 4               | -         | 4     | -                                   | -  | -                     | 4                | -  | 4     | -               | -  | -     | 50                         | 50        | 100   |  |
| Ability Enhancement Courses (AEC)*              | U92D5EWS     | EFFECTIVE WRITING SKILLS                                | 2               |           | 2     | -                                   | -  | -                     | -                |    | 2     | -               | -  | -     | 25                         | 25        | 50    |  |
| Skill enhancement courses (sec)*                | U92E7DAT     | DATA ANALYTICS USING TABLEAU                            | 2               |           | 2     | -                                   |    | -                     | 2                |    | 2     | -               |    | -     | 25                         | 25        | 50    |  |
| Value added courses (VAC)*                      | U92F6SEP     | STARTUP AND ENTREPRENEURSHIP                            | 2               |           | 2     | -                                   |    | -                     | 2                |    | 2     | -               |    | -     |                            |           |       |  |
|                                                 | Total        |                                                         | 18              |           | 18    | 4                                   |    | 4                     | 18               |    | 18    | 8               |    | 8     | 275                        | 275       | 550   |  |

|                    |                              |
|--------------------|------------------------------|
| <b>ELECTIVE-2:</b> |                              |
| U92B3SE            | SOFTWARE ENGINEERING         |
| U92B3SAD           | SOFTWARE ANALYSIS AND DESIGN |

\*Students are required to participate in either field training/internships or choose at least one university-approved and recognized certificate course from the array of Ability Enhancement Courses (AEC), Value Added Course(VAC), Skill Enhancement Course(SEC)courses provided by the university.