

## Course Structure

### M.Sc in Computational and Integrative Sciences

**3<sup>rd</sup> Semester (Two Courses are compulsory {CS and CB} and Four courses are Compulsory for individual streams)**

| M.Sc in Computational & Integrative Sciences courses  | Credits   |    | Remarks                              |
|---|-----------|----|--------------------------------------|
|   | CB        | CS |                                      |
| <b>IT 422</b><br>Research Methodology   | 3         |    | Compulsory in Both CB and CS Stream  |
| <b>IT772</b><br>Data Mining and Modeling (OR)<br><br><b>IT 455N</b><br>Statistical and Computational Machine Learning               | 3         |    | Compulsory in Both CB and CS Stream. |
| <b>IT 454N</b><br>Statistical Mechanics of Complex Systems  |           | 3  | Compulsory for CS Stream             |
| <b>IT 462</b><br>Multi Agent Modeling in Complex Systems  |           | 3  | Compulsory for CS Stream             |
| <b>IT 456N</b><br>Non- Linear Dynamics  |           | 3  | Compulsory for CS Stream             |
| <b>IT 768</b><br>Omics Sciences   | 3         |    | Compulsory for CB Stream.            |
| <b>IT 461</b><br>Systems Biology  | 3         |    | Compulsory for CB Stream             |
| <b>IT 773</b><br>Biomolecular Simulation (OR)<br><br><b>IT 452N</b><br>Statistical Mechanics of Biomolecules: Theory and simulation | 3         |    | Compulsory for CB Stream             |
| <b>IT464</b><br><b>Laboratory-II</b>  | 2         |    | Introduced                           |
|   | <b>17</b> |    |                                      |

