

**Symbiosis Artificial Intelligence Institute, Pune**  
**Bachelor of Science (Artificial Intelligence) - Honours/ Honours with Research**  
**Programme Structure 2025-2029**

|    |                              |  |  |                              |  |                                   |
|----|------------------------------|--|--|------------------------------|--|-----------------------------------|
| 1. | <b>OBJECTIVE</b>             | To develop skilled professionals with a strong foundation in artificial intelligence, computational thinking, and data-driven problem solving. The program aims to foster interdisciplinary application of AI in domains such as healthcare, agriculture, sports, and cybersecurity. It encourages creativity, ethical reasoning, and research aptitude to address real-world challenges through innovative and inclusive AI solutions.                                      |  |                              |  |                                   |
| 2. | <b>DURATION (IN MONTHS)</b>  | 48 (Full Time) With Multiple Entry and Multiple Exit Options   |  |                              |  |                                   |
| 3. | <b>INTAKE</b>                | 60   |  |                              |  |                                   |
| 4. | <b>RESERVATION</b>           | <b>I. Within the sanctioned intake</b>   | <b>a) SC (In Percentage)</b>           | <b>b) ST (In Percentage)</b> | <b>c) Differently abled (In Percentage)</b>      | <b>d) Defence (In Percentage)</b> |
|    |                              |  | 15                                     | 7.5                          | 3  | 0                                 |
|    |                              | <b>II. Over and above the sanctioned intake</b>  | <b>a) Kashmiri Migrants (In Seats)</b> |                              | <b>b) International Students (In Percentage)</b> |                                   |
|    |                              |  | 2                                      |                              | 25   |                                   |
| 5. | <b>ELIGIBILITY</b>           | Passed Std. XII (10+2) or equivalent examination from any recognized board with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for SC/ST). Open to students from all streams (Science, Commerce, Arts) who have passed. Students who wish to opt for Honours with Research must earn 7.5 CGPA and above at the end of Semester VI. Eligibility Criteria for multiple entries will be as per University's Lateral Entry Rules for FYUG programmes. |  |                              |  |                                   |
| 6. | <b>SELECTION PROCEDURE</b>   | Personal Interaction (PI)  |  |                              |  |                                   |
| 7. | <b>MEDIUM OF INSTRUCTION</b> | English  |  |                              |  |                                   |
| 8. | <b>PROGRAMME PATTERN</b>     | Semester   |  |                              |  |                                   |

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|            |  |  |                         |                          |              |
|------------|--|--|-------------------------|--------------------------|--------------|
| <b>9.</b>  | <b>COURSE &amp; SPECIALIZATION</b>         | <p>As per Annexure A</p> <p>List of Majors Offered (Choose any one)</p> <p>1.Health Sciences<br/> 2.Sports Sciences<br/> 3.Agriculture<br/> 4.Data Science<br/> 5.Cyber Security</p> <p>List of Minors Offered (Choose any one excluding the one chosen as a Major)</p> <p>1.Health Sciences<br/> 2.Sports Sciences<br/> 3.Agriculture<br/> 4.Data Science<br/> 5.Cyber Security</p> |                         |                          |              |
| <b>10.</b> | <b>FEE</b>                                 |  | <b>Academic Fee p.a</b> | <b>Institute Deposit</b> | <b>Total</b> |
|            | <b>Indian Students<br/>(Amount in INR)</b> |  | 350000                  | 20000                    | 370000       |
|            | <b>International Students</b>              | <b>NRI/ PIO/ OCI Category<br/>(Amount in US\$)</b>   | 6520                    | 275                      | 6795         |
|            |  | <b>Foreign National Category<br/>(Amount in US\$)</b>  | 1300                    | 275                      | 1575         |

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**Note:** The exiting students will have to complete the additional 4 credit vocational course for the award of a Certificate/ Diploma by paying additional fees at the time of intimation of the exit. The additional fees of 4 credit vocational course will be informed in due course of time.

|            |  |   |
|------------|--|---|
| <b>11.</b> | <b>ASSESSMENT</b>                          | The courses will have 60% Continuous Assessment and 40% Term End [University] examination however, some courses (not more than 30% of the total programme credits) may have 100% Continuous Assessment.   |
| <b>12.</b> | <b>STANDARD OF PASSING</b>                 | The assessment of the student for each examination is done based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (outstanding). For all courses, a student is required to pass both Continuous Assessment and Term End examinations separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% marks in any head of passing will be declared FAIL. The University awards a Certificate/Diploma/ Degree to the student who has achieved a minimum CGPA of 4 out of a maximum of 10 CGPA for the Programme.  |
| <b>13.</b> | <b>AWARD OF CERTIFICATE/DIPLOMA/DEGREE</b> | <p><b>Certificate in Artificial Intelligence</b> will be awarded at the end of the semester 2 by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA and the successful completion of the 4 credit Vocational Course in the summer.</p> <p><b>Diploma in Artificial Intelligence</b> will be awarded at the end of the semester 4 by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA and the successful completion of the 4 credit Vocational Course in the summer.</p> <p><b>Bachelor of Science (Artificial Intelligence)</b> with the applicable major and applicable minor will be awarded at the end of the semester 6 examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.</p> <p><b>Bachelor of Science (Artificial Intelligence)-Honours</b> with the applicable major and applicable minor will be awarded at the end of the semester 8 examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA</p> <p><b>Bachelor of Science (Artificial Intelligence)-Honours with Research</b> with the applicable major and applicable minor will be awarded at the end of the semester 8 examination by taking into consideration the performance of all semester examinations after obtaining minimum 4 CGPA out of 10 CGPA.</p> |

| 14. CLASSIFICATION OF CREDITS  |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |
|--|-----------|-----------|--------------------|---------------------|-------------------|--------------------|-------------------|---------------------------------|--------------------------------------|----------------------------------|---------------|
| Semester   | Major     | Minor     | Multi-disciplinary | Ability Enhancement | Skill Enhancement | Common Value Added | Summer Internship | Research Project / Dissertation | No. of Mandatory Non-Credit Course/s | No. of Non-Credit Audit Course/s | Total Credits |
| 1  | 12        | 0         | 0                  | 3                   | 3                 | 2                  | 0                 | 0                               | 0                                    | As per the student's choice      | 20            |
| 2  | 12        | 0         | 3                  | 3                   | 3                 | 2                  | 0                 | 0                               | 0                                    |                                  | 23            |
| 3  | 12        | 8         | 0                  | 0                   | 0                 | 2                  | 0                 | 0                               | 0                                    |                                  | 22            |
| 4  | 7         | 9         | 3                  | 0                   | 2                 | 0                  | 0                 | 0                               | 1 *                                  |                                  | 21            |
| 5  | 14        | 8         | 0                  | 0                   | 0                 | 0                  | 0                 | 0                               | 1 *                                  |                                  | 22            |
| 6  | 3         | 0         | 0                  | 0                   | 0                 | 0                  | 12                | 0                               | 0                                    |                                  | 15            |
| <b>Total</b>   | <b>60</b> | <b>25</b> | <b>6</b>           | <b>6</b>            | <b>8</b>          | <b>6</b>           | <b>12</b>         | <b>0</b>                        | <b>0</b>                             |                                  | <b>123</b>    |
| <b>Honours</b>   |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |
| 7  | 16        | 8         | 0                  | 0                   | 0                 | 0                  | 0                 | 0                               | 0                                    |                                  | 24            |
| 8  | 16        | 0         | 0                  | 0                   | 0                 | 0                  | 0                 | 0                               | 0                                    |                                  | 16            |
| <b>Total</b>   | <b>92</b> | <b>33</b> | <b>6</b>           | <b>6</b>            | <b>8</b>          | <b>6</b>           | <b>12</b>         | <b>0</b>                        | <b>0</b>                             |                                  | <b>163</b>    |
| <b>Honours with Research</b>   |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |
| 7  | 18        | 4         | 0                  | 0                   | 0                 | 0                  | 0                 | 0                               | 0                                    |                                  | 22            |
| 8  | 2         | 4         | 0                  | 0                   | 0                 | 0                  | 0                 | 12                              | 0                                    |                                  | 18            |
| <b>Total</b>   | <b>80</b> | <b>33</b> | <b>6</b>           | <b>6</b>            | <b>8</b>          | <b>6</b>           | <b>12</b>         | <b>12</b>                       | <b>0</b>                             |                                  | <b>163</b>    |
| <p>1. The student/s exiting the Programme after Semester - 2 OR Semester - 4 should complete vocational courses of total 4 credits in the summer to obtain the Certificate/Diploma.</p> <p>2. * Satisfactory completion of non credit courses 'Health and Wellness' and '<i>Vasudhaiva Kutumbakam</i>' is mandatory for award of degree.</p> |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |
| The revised programme structure supersedes the previously approved programme structure dated 02/12/2025 for the programme.   |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |
| <b>Additional Note:</b> #Health and Wellness Module I and Module II will be conducted during the semesters mentioned in the programme structure. However, the course will be listed on the students' grade sheets as "Health and Wellness" in the semester in which the institute's course code is officially assigned.                      |           |           |                    |                     |                   |                    |                   |                                 |                                      |                                  |               |

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council.  
Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

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**Annexure A**

| Catalog Course Code                                  | Course Code | Course Title                                     | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits   | Examination Scheme (Marks) |           |            |           | Total Marks |
|--|-------------|--|--------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|-----------|-------------|
|  |             |  |              | Lectures                         | Lab |           | Practical                  |           | Theory     |           |             |
|  |             |  |              |                                  |     |           | CA                         | ESE       | CA         | ESE       |             |
| <b>Semester : 1</b>                                  |             |  |              |                                  |     |           |                            |           |            |           |             |
| <b>Discipline-Specific Course/s / Major Course/s</b> |             |  |              |                                  |     |           |                            |           |            |           |             |
| T3851  | 0304210101  | Foundational Mathematics for AI                  |              | 4                                | 0   | 4         | 0                          | 0         | 60         | 40        | 100         |
| T3852  | 0304210102  | Introduction to AI                               |              | 2                                | 0   | 2         | 0                          | 0         | 30         | 20        | 50          |
| T3846  | 0304210103  | Database Management System with SQL              |              | 3                                | 2   | 4         | 15                         | 10        | 45         | 30        | 100         |
| T3849  | 0304210104  | Data Preprocessing and Exploratory Data Analysis |              | 0                                | 4   | 2         | 30                         | 20        | 0          | 0         | 50          |
| <b>Total</b>   |             |  |              |                                  |     | <b>12</b> | <b>45</b>                  | <b>30</b> | <b>135</b> | <b>90</b> | <b>300</b>  |
| <b>Ability Enhancement Course/s</b>                  |             |  |              |                                  |     |           |                            |           |            |           |             |
| TM2314   | 0304210105  | Business Communication                           |              | 3                                | 0   | 3         | 0                          | 0         | 45         | 30        | 75          |
| <b>Total</b>   |             |  |              |                                  |     | <b>3</b>  | <b>0</b>                   | <b>0</b>  | <b>45</b>  | <b>30</b> | <b>75</b>   |
| <b>Skill Enhancement Course/s</b>                    |             |  |              |                                  |     |           |                            |           |            |           |             |
| T3856  | 0304210106  | Python Programming                               |              | 1                                | 4   | 3         | 50                         | 0         | 25         | 0         | 75          |
| <b>Total</b>   |             |  |              |                                  |     | <b>3</b>  | <b>50</b>                  | <b>0</b>  | <b>25</b>  | <b>0</b>  | <b>75</b>   |

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|--|-------------|------------------------------------|--------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-------------|
|  |             |                                    |              | Lectures                         | Lab |           | Practical                  |           | Theory     |            |             |
|  |             |                                    |              |                                  |     |           | CA                         | ESE       | CA         | ESE        |             |
| <b>Common Value Added Course/s</b>                   |             |                                    |              |                                  |     |           |                            |           |            |            |             |
| THM6144  | 0304210107  | Indian Knowledge Systems           |              | 2                                | 0   | 2         | 0                          | 0         | 50         | 0          | 50          |
| <b>Total</b>   |             |                                    |              |                                  |     | <b>2</b>  | <b>0</b>                   | <b>0</b>  | <b>50</b>  | <b>0</b>   | <b>50</b>   |
| <b>Grand Total</b>                                   |             |                                    |              |                                  |     | <b>20</b> | <b>95</b>                  | <b>30</b> | <b>255</b> | <b>120</b> | <b>500</b>  |
| <b>Semester : 2</b>                                  |             |                                    |              |                                  |     |           |                            |           |            |            |             |
| <b>Discipline-Specific Course/s / Major Course/s</b> |             |                                    |              |                                  |     |           |                            |           |            |            |             |
| T3845  | 0304210201  | Data Structures and Algorithms     |              | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| T3855  | 0304210202  | Machine Learning and Deep Learning |              | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| TEE7089  | 0304210203  | Basics of Operating Systems        |              | 2                                | 0   | 2         | 0                          | 0         | 30         | 20         | 50          |
| T3858  | 0304210204  | Statistics for Data Science        |              | 2                                | 0   | 2         | 0                          | 0         | 30         | 20         | 50          |
| <b>Total</b>   |             |                                    |              |                                  |     | <b>12</b> | <b>30</b>                  | <b>20</b> | <b>150</b> | <b>100</b> | <b>300</b>  |
| <b>Ability Enhancement Course/s</b>                  |             |                                    |              |                                  |     |           |                            |           |            |            |             |

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|--------------------------------------|-------------|--------------------------------|--------------|----------------------------------|-----|----------|----------------------------|-----------|-----------|----------|-------------|
|                                      |             |                                |              | Lectures                         | Lab |          | Practical                  |           | Theory    |          |             |
|                                      |             |                                |              |                                  |     |          | CA                         | ESE       | CA        | ESE      |             |
| T6755                                | 0304210205  | English (Communication Skills) |              | 3                                | 0   | 3        | 0                          | 0         | 75        | 0        | 75          |
| <b>Total</b>                         |             |                                |              |                                  |     | <b>3</b> | <b>0</b>                   | <b>0</b>  | <b>75</b> | <b>0</b> | <b>75</b>   |
| <b>Skill Enhancement Course/s</b>    |             |                                |              |                                  |     |          |                            |           |           |          |             |
| T3848                                | 0304210206  | Data Analytics using MS-Excel  |              | 1                                | 4   | 3        | 30                         | 20        | 25        | 0        | 75          |
| <b>Total</b>                         |             |                                |              |                                  |     | <b>3</b> | <b>30</b>                  | <b>20</b> | <b>25</b> | <b>0</b> | <b>75</b>   |
| <b>Common Value Added Course/s</b>   |             |                                |              |                                  |     |          |                            |           |           |          |             |
| THM6208                              | 0304210207  | Creative and Critical Thinking |              | 2                                | 0   | 2        | 0                          | 0         | 50        | 0        | 50          |
| <b>Total</b>                         |             |                                |              |                                  |     | <b>2</b> | <b>0</b>                   | <b>0</b>  | <b>50</b> | <b>0</b> | <b>50</b>   |
| <b>Mandatory Non-Credit Course/s</b> |             |                                |              |                                  |     |          |                            |           |           |          |             |
| TH4788                               |             | Health and Wellness Module I # |              | 0                                | 0   | 0        | 0                          | 0         | 0         | 0        | 0           |
| <b>Total</b>                         |             |                                |              |                                  |     | <b>0</b> | <b>0</b>                   | <b>0</b>  | <b>0</b>  | <b>0</b> | <b>0</b>    |

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|--|-------------|-------------------------------------|--------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-------------|
|  |             |                                     |              | Lectures                         | Lab |           | Practical                  |           | Theory     |            |             |
|  |             |                                     |              |                                  |     |           | CA                         | ESE       | CA         | ESE        |             |
| <b>Multi-disciplinary Course/s</b><br>(Choose Any One Course from the University Basket of Multidisciplinary Courses)<br>The list of Multidisciplinary courses offered will be updated every semester. The list will be shared on the MDC Registration Portal before the commencement of each semester, and students may choose a course of their choice.<br>You can download the list on eduwiz portal. |             |                                     |              |                                  |     |           |                            |           |            |            |             |
| -  | -           | MD1                                 |              | 0                                | 0   | 3         | 0                          | 0         | 75         | 0          | 75          |
| <b>Total</b>   |             |                                     |              |                                  |     | <b>3</b>  | <b>0</b>                   | <b>0</b>  | <b>75</b>  | <b>0</b>   | <b>75</b>   |
| <b>Vocational Course/s</b><br>(Only for students who wish to exit after the First Year with a Certificate)   |             |                                     |              |                                  |     |           |                            |           |            |            |             |
| T3847  | 0304210208  | Applied Natural Language Processing |              | 4                                | 0   | 4         | 0                          | 0         | 100        | 0          | 100         |
| <b>Grand Total</b>   |             |                                     |              |                                  |     | <b>23</b> | <b>60</b>                  | <b>40</b> | <b>375</b> | <b>100</b> | <b>575</b>  |
| Note: Students exiting at the end of the second semester and earning 43 credits will be awarded a "Certificate in Artificial Intelligence," provided they successfully complete the additional 4 credits of vocational course offered during the summer term.  |             |                                     |              |                                  |     |           |                            |           |            |            |             |
| <b>Semester : 3</b>  |             |                                     |              |                                  |     |           |                            |           |            |            |             |
| <b>Discipline-Specific Course/s / Major Course/s</b>   |             |                                     |              |                                  |     |           |                            |           |            |            |             |
| P5483  | 0304210301  | Natural Language Processing         |              | 3                                | 0   | 3         | 0                          | 0         | 45         | 30         | 75          |

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|--|-------------|---|-----------------|----------------------------------|-----|----------|----------------------------|----------|-----------|-----------|-------------|
|  |             |   |                 | Lectures                         | Lab |          | Practical                  |          | Theory    |           |             |
|  |             |   |                 |                                  |     |          | CA                         | ESE      | CA        | ESE       |             |
|  |             |   |                 | <b>Total</b>                     |     | <b>3</b> | <b>0</b>                   | <b>0</b> | <b>45</b> | <b>30</b> | <b>75</b>   |
| <b>Major Course/s (Choose any one Group)</b> |             |   |                 |                                  |     |          |                            |          |           |           |             |
| <b>Group 1 (Health Sciences)</b>             |             |   |                 |                                  |     |          |                            |          |           |           |             |
| P5529  | 0304210302  | Biological foundations and Applications of Artificial Intelligence (AI) in Healthcare | Health Sciences | 4                                | 0   | 4        | 0                          | 0        | 60        | 40        | 100         |
| P5530  | 0304210303  | AI in Medical Imaging Analysis  | Health Sciences | 3                                | 2   | 4        | 15                         | 10       | 45        | 30        | 100         |
| P5531  | 0304210304  | AI in Rehabilitation Sciences   | Health Sciences | 1                                | 0   | 1        | 0                          | 0        | 25        | 0         | 25          |
| <b>Group 2 (Sports Sciences)</b>             |             |   |                 |                                  |     |          |                            |          |           |           |             |
| P5532  | 0304210305  | Data Analytics for Sports   | Sports Sciences | 3                                | 2   | 4        | 15                         | 10       | 45        | 30        | 100         |
| P5533  | 0304210306  | Sports Biomechanics   | Sports Sciences | 4                                | 0   | 4        | 0                          | 0        | 60        | 40        | 100         |
| P5534  | 0304210307  | Anatomy and Physiology  | Sports Sciences | 1                                | 0   | 1        | 0                          | 0        | 25        | 0         | 25          |
| <b>Group 3 (Agriculture)</b>                 |             |   |                 |                                  |     |          |                            |          |           |           |             |
| P5535  | 0304210308  | Introduction to Agriculture and Finance   | Agriculture     | 3                                | 2   | 4        | 15                         | 10       | 45        | 30        | 100         |
| P5536  | 0304210309  | AI and Precision Agriculture  | Agriculture     | 4                                | 0   | 4        | 0                          | 0        | 60        | 40        | 100         |
| P5537  | 0304210310  | Agri Supply Chain Management  | Agriculture     | 1                                | 0   | 1        | 0                          | 0        | 25        | 0         | 25          |

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|--|-------------|---|-----------------|----------------------------------|-----|----------|----------------------------|-----------|------------|-----------|-------------|
|  |             |   |                 | Lectures                         | Lab |          | Practical                  |           | Theory     |           |             |
|  |             |   |                 |                                  |     |          | CA                         | ESE       | CA         | ESE       |             |
| <b>Group 4 (Data Science)</b>  |             |   |                 |                                  |     |          |                            |           |            |           |             |
| P5539  | 0304210311  | Open Source Tools for Data Science  | Data Science    | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| TMC5024  | 0304210312  | Data Visualization -1   | Data Science    | 1                                | 0   | 1        | 0                          | 0         | 25         | 0         | 25          |
| P5544  | 0304210313  | Business Analytics  | Data Science    | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| <b>Group 5 (Cyber Security)</b>  |             |   |                 |                                  |     |          |                            |           |            |           |             |
| P5540  | 0304210314  | Cryptography  | Cyber Security  | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| P5538  | 0304210315  | Introduction to Cybersecurity   | Cyber Security  | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| P5545  | 0304210316  | Network Security  | Cyber Security  | 1                                | 0   | 1        | 0                          | 0         | 25         | 0         | 25          |
| <b>Total Required Credits</b>  |             |   |                 |                                  |     | <b>9</b> | <b>15</b>                  | <b>10</b> | <b>130</b> | <b>70</b> | <b>225</b>  |
| <b>Minor Course/s (Choose any one group other than the chosen Major)</b> |             |   |                 |                                  |     |          |                            |           |            |           |             |
| <b>Group 1 (Health Sciences)</b>   |             |   |                 |                                  |     |          |                            |           |            |           |             |
| P5529  | 0304210302  | Biological foundations and Applications of Artificial Intelligence (AI) in Healthcare | Health Sciences | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| P5530  | 0304210303  | AI in Medical Imaging Analysis  | Health Sciences | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| <b>Group 2 (Sports Sciences)</b>   |             |   |                 |                                  |     |          |                            |           |            |           |             |
| P5532  | 0304210305  | Data Analytics for Sports   | Sports Sciences | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| P5533  | 0304210306  | Sports Biomechanics   | Sports Sciences | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |

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| Catalog Course Code                  | Course Code | Course Title                                   | Major/ Minor   | Teaching Scheme (Hours Per Week) |     | Credits  | Examination Scheme (Marks) |           |            |           | Total Marks |
|--------------------------------------|-------------|--|----------------|----------------------------------|-----|----------|----------------------------|-----------|------------|-----------|-------------|
|                                      |             |  |                | Lectures                         | Lab |          | Practical                  |           | Theory     |           |             |
|                                      |             |  |                |                                  |     |          | CA                         | ESE       | CA         | ESE       |             |
| <b>Group 3 (Agriculture)</b>         |             |  |                |                                  |     |          |                            |           |            |           |             |
| P5535                                | 0304210308  | Introduction to Agriculture and Finance        | Agriculture    | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| P5536                                | 0304210309  | AI and Precision Agriculture                   | Agriculture    | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| <b>Group 4 (Data Science)</b>        |             |  |                |                                  |     |          |                            |           |            |           |             |
| P5539                                | 0304210311  | Open Source Tools for Data Science             | Data Science   | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| P5544                                | 0304210313  | Business Analytics                             | Data Science   | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| <b>Group 5 (Cyber Security)</b>      |             |  |                |                                  |     |          |                            |           |            |           |             |
| P5540                                | 0304210314  | Cryptography                                   | Cyber Security | 3                                | 2   | 4        | 15                         | 10        | 45         | 30        | 100         |
| P5538                                | 0304210315  | Introduction to Cybersecurity                  | Cyber Security | 4                                | 0   | 4        | 0                          | 0         | 60         | 40        | 100         |
| <b>Total Required Credits</b>        |             |  |                |                                  |     | <b>8</b> | <b>15</b>                  | <b>10</b> | <b>105</b> | <b>70</b> | <b>200</b>  |
| <b>Common Value Added Course/s</b>   |             |  |                |                                  |     |          |                            |           |            |           |             |
| P5542                                | 0304210317  | Introduction to Environment and Sustainability |                | 2                                | 0   | 2        | 0                          | 0         | 50         | 0         | 50          |
| <b>Total</b>                         |             |  |                |                                  |     | <b>2</b> | <b>0</b>                   | <b>0</b>  | <b>50</b>  | <b>0</b>  | <b>50</b>   |
| <b>Mandatory Non-Credit Course/s</b> |             |  |                |                                  |     |          |                            |           |            |           |             |
| TH4789                               |             | Health and Wellness Module II #                |                | 0                                | 0   | 0        | 0                          | 0         | 0          | 0         | 0           |

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| Catalog Course Code                          | Course Code | Course Title  | Major/ Minor    | Teaching Scheme (Hours Per Week) |     | Credits   | Examination Scheme (Marks) |           |            |            | Total Marks |
|--|-------------|---|-----------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-------------|
|  |             |   |                 | Lectures                         | Lab |           | Practical                  |           | Theory     |            |             |
|  |             |   |                 |                                  |     |           | CA                         | ESE       | CA         | ESE        |             |
| <b>Total</b>                                 |             |   |                 |                                  |     | <b>0</b>  | <b>0</b>                   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>    |
| <b>Grand Total</b>                           |             |   |                 |                                  |     | <b>22</b> | <b>30</b>                  | <b>20</b> | <b>330</b> | <b>170</b> | <b>550</b>  |
| <b>Semester : 4</b>                          |             |   |                 |                                  |     |           |                            |           |            |            |             |
| <b>Major Course/s (Choose any one Group)</b> |             |   |                 |                                  |     |           |                            |           |            |            |             |
| <b>Group 1 (Health Sciences)</b>             |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5543  | 0304210401  | AI for Disease Diagnosis and Clinical Decision Support System | Health Sciences | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5546  | 0304210402  | AI for Drug Discovery and Clinical Trials                     | Health Sciences | 3                                | 0   | 3         | 0                          | 0         | 45         | 30         | 75          |
| <b>Group 2 (Sports Sciences)</b>             |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5547  | 0304210403  | Performance Analysis Using AI                                 | Sports Sciences | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5548  | 0304210404  | Fan Engagement and Smart Venues                               | Sports Sciences | 3                                | 0   | 3         | 0                          | 0         | 45         | 30         | 75          |
| <b>Group 3 (Agriculture)</b>                 |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5549  | 0304210405  | Image Analytics for Agriculture                               | Agriculture     | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5550  | 0304210406  | IoT for Smart Irrigation Systems                              | Agriculture     | 3                                | 0   | 3         | 0                          | 0         | 45         | 30         | 75          |
| <b>Group 4 (Data Science)</b>                |             |   |                 |                                  |     |           |                            |           |            |            |             |

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| Catalog Course Code  | Course Code | Course Title  | Major/ Minor    | Teaching Scheme (Hours Per Week) |     | Credits  | Examination Scheme (Marks) |           |           |           | Total Marks |
|--|-------------|---|-----------------|----------------------------------|-----|----------|----------------------------|-----------|-----------|-----------|-------------|
|  |             |   |                 | Lectures                         | Lab |          | Practical                  |           | Theory    |           |             |
|  |             |   |                 |                                  |     |          | CA                         | ESE       | CA        | ESE       |             |
| P5551  | 0304210407  | Time Series Analysis and Forecasting                          | Data Science    | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5552  | 0304210408  | Big Data: Storage and Analytics                               | Data Science    | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Group 5 (Cyber Security)</b>  |             |   |                 |                                  |     |          |                            |           |           |           |             |
| P5553  | 0304210409  | Ethical Hacking   | Cyber Security  | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5555  | 0304210410  | AI for Cyber Security   | Cyber Security  | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Total Required Credits</b>  |             |   |                 |                                  |     | <b>7</b> | <b>15</b>                  | <b>10</b> | <b>90</b> | <b>60</b> | <b>175</b>  |
| <b>Discipline-Specific Course/s / Minor Course/s</b>                     |             |   |                 |                                  |     |          |                            |           |           |           |             |
| T8000  | 0304210411  | Service Learning  |                 | 0                                | 4   | 2        | 50                         | 0         | 0         | 0         | 50          |
| <b>Total</b>   |             |   |                 |                                  |     | <b>2</b> | <b>50</b>                  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>50</b>   |
| <b>Minor Course/s (Choose any one group other than the chosen Major)</b> |             |   |                 |                                  |     |          |                            |           |           |           |             |
| <b>Group 1 (Health Sciences)</b>   |             |   |                 |                                  |     |          |                            |           |           |           |             |
| P5543  | 0304210401  | AI for Disease Diagnosis and Clinical Decision Support System | Health Sciences | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5546  | 0304210402  | AI for Drug Discovery and Clinical Trials                     | Health Sciences | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |

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|-----------------------------------|-------------|--------------------------------------|-----------------|----------------------------------|-----|----------|----------------------------|-----------|-----------|-----------|-------------|
|                                   |             |                                      |                 | Lectures                         | Lab |          | Practical                  |           | Theory    |           |             |
|                                   |             |                                      |                 |                                  |     |          | CA                         | ESE       | CA        | ESE       |             |
| <b>Group 2 (Sports Sciences)</b>  |             |                                      |                 |                                  |     |          |                            |           |           |           |             |
| P5547                             | 0304210403  | Performance Analysis Using AI        | Sports Sciences | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5548                             | 0304210404  | Fan Engagement and Smart Venues      | Sports Sciences | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Group 3 (Agriculture)</b>      |             |                                      |                 |                                  |     |          |                            |           |           |           |             |
| P5549                             | 0304210405  | Image Analytics for Agriculture      | Agriculture     | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5550                             | 0304210406  | IoT for Smart Irrigation Systems     | Agriculture     | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Group 4 (Data Science)</b>     |             |                                      |                 |                                  |     |          |                            |           |           |           |             |
| P5551                             | 0304210407  | Time Series Analysis and Forecasting | Data Science    | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5552                             | 0304210408  | Big Data: Storage and Analytics      | Data Science    | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Group 5 (Cyber Security)</b>   |             |                                      |                 |                                  |     |          |                            |           |           |           |             |
| P5553                             | 0304210409  | Ethical Hacking                      | Cyber Security  | 3                                | 2   | 4        | 15                         | 10        | 45        | 30        | 100         |
| P5555                             | 0304210410  | AI for Cyber Security                | Cyber Security  | 3                                | 0   | 3        | 0                          | 0         | 45        | 30        | 75          |
| <b>Total Required Credits</b>     |             |                                      |                 |                                  |     | <b>7</b> | <b>15</b>                  | <b>10</b> | <b>90</b> | <b>60</b> | <b>175</b>  |
| <b>Skill Enhancement Course/s</b> |             |                                      |                 |                                  |     |          |                            |           |           |           |             |
| TEE7200                           | 0304210412  | Cloud Computing Essentials for AI    |                 | 2                                | 0   | 2        | 0                          | 0         | 50        | 0         | 50          |
| <b>Total</b>                      |             |                                      |                 |                                  |     | <b>2</b> | <b>0</b>                   | <b>0</b>  | <b>50</b> | <b>0</b>  | <b>50</b>   |

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| Catalog Course Code  | Course Code | Course Title            | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits   | Examination Scheme (Marks) |           |            |            | Total Marks                 |
|--|-------------|-------------------------|--------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-----------------------------|
|  |             |                         |              | Lectures                         | Lab |           | Practical                  |           | Theory     |            |                             |
|  |             |                         |              |                                  |     |           | CA                         | ESE       | CA         | ESE        |                             |
| <b>Mandatory Non-Credit Course/s</b>   |             |                         |              |                                  |     |           |                            |           |            |            |                             |
| SMC001   | 0304210413  | Vasudhaiva Kutumbakam * |              | 0                                | 0   | 0         | 0                          | 0         | 0          | 0          | Mandatory Non-Credit Course |
| <b>Total</b>   |             |                         |              |                                  |     | <b>0</b>  | <b>0</b>                   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>                    |
| <b>Multi-disciplinary Course/s</b><br>(Choose Any One Course from the University Basket of Multidisciplinary Courses)<br>The list of Multidisciplinary courses offered will be updated every semester. The list will be shared on the MDC Registration Portal before the commencement of each semester, and students may choose a course of their choice.<br>You can download the list on eduwiz portal. |             |                         |              |                                  |     |           |                            |           |            |            |                             |
| -  | -           | MD2                     |              | 0                                | 0   | 3         | 0                          | 0         | 75         | 0          | 75                          |
| <b>Total</b>   |             |                         |              |                                  |     | <b>3</b>  | <b>0</b>                   | <b>0</b>  | <b>75</b>  | <b>0</b>   | <b>75</b>                   |
| <b>Vocational Course/s</b><br>(Only for students who wish to exit after the Second Year with a Diploma)  |             |                         |              |                                  |     |           |                            |           |            |            |                             |
| P5556  | 0304210414  | LLM Essential           |              | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100                         |
| <b>Grand Total</b>   |             |                         |              |                                  |     | <b>21</b> | <b>80</b>                  | <b>20</b> | <b>305</b> | <b>120</b> | <b>525</b>                  |
| Note: Students exiting at the end of the fourth semester and earning 86 credits will be awarded a "Diploma in Artificial Intelligence," provided they successfully complete the additional 4 credits of vocational courses offered during the summer term.   |             |                         |              |                                  |     |           |                            |           |            |            |                             |

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|--|-------------|---|-----------------|----------------------------------|-----|----------|----------------------------|-----------|----------|----------|-------------|
|  |             |   |                 | Lectures                         | Lab |          | Practical                  |           | Theory   |          |             |
|  |             |   |                 |                                  |     |          | CA                         | ESE       | CA       | ESE      |             |
| <b>Semester : 5</b>                                  |             |   |                 |                                  |     |          |                            |           |          |          |             |
| <b>Discipline-Specific Course/s / Major Course/s</b> |             |   |                 |                                  |     |          |                            |           |          |          |             |
| T3802  | 0304210501  | Project                                       |                 | 0                                | 4   | 2        | 30                         | 20        | 0        | 0        | 50          |
| <b>Total</b>   |             |   |                 |                                  |     | <b>2</b> | <b>30</b>                  | <b>20</b> | <b>0</b> | <b>0</b> | <b>50</b>   |
| <b>Major Course/s (Choose any one Group)</b>         |             |   |                 |                                  |     |          |                            |           |          |          |             |
| <b>Group 1 (Health Sciences)</b>                     |             |   |                 |                                  |     |          |                            |           |          |          |             |
| P5557  | 0304210502  | HealthTech Entrepreneurship & Innovation      | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |
| P5558  | 0304210503  | AI for Public Health Surveillance             | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |
| P5560  | 0304210504  | AI for Mental Health Screening and Monitoring | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |
| P5561  | 0304210505  | AI Integration in Robotics                    | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |
| P5562  | 0304210506  | AI in Nutrition & Lifestyle Management        | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |
| P5563  | 0304210507  | Predictive Analytics and Risk Stratification  | Health Sciences | 1                                | 2   | 2        | 15                         | 10        | 15       | 10       | 50          |

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|----------------------------------|-------------|--|-----------------|----------------------------------|-----|---------|----------------------------|-----|--------|-----|-------------|
|                                  |             |  |                 | Lectures                         | Lab |         | Practical                  |     | Theory |     |             |
|                                  |             |  |                 |                                  |     |         | CA                         | ESE | CA     | ESE |             |
| <b>Group 2 (Sports Sciences)</b> |             |  |                 |                                  |     |         |                            |     |        |     |             |
| P5564                            | 0304210508  | Content Creation in Sports using AI                | Sports Sciences | 3                                | 2   | 4       | 15                         | 10  | 45     | 30  | 100         |
| P5565                            | 0304210509  | Applications in Sports Business                    | Sports Sciences | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| P5566                            | 0304210510  | AI for Training Personalization                    | Sports Sciences | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| <b>Group 3 (Agriculture)</b>     |             |  |                 |                                  |     |         |                            |     |        |     |             |
| P5567                            | 0304210511  | Data Science for Climate Resilience Study          | Agriculture     | 3                                | 2   | 4       | 15                         | 10  | 45     | 30  | 100         |
| P5568                            | 0304210512  | Design Thinking for Agribusiness Innovation        | Agriculture     | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| P5569                            | 0304210513  | Post-Harvest Technology and Logistics Optimisation | Agriculture     | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| <b>Group 4 (Data Science)</b>    |             |  |                 |                                  |     |         |                            |     |        |     |             |
| P5570                            | 0304210514  | Computer Vision                                    | Data Science    | 3                                | 2   | 4       | 15                         | 10  | 45     | 30  | 100         |
| P5571                            | 0304210515  | Data Science for FinTech                           | Data Science    | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| P5573                            | 0304210516  | Predictive Analytics                               | Data Science    | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| <b>Group 5 (Cyber Security)</b>  |             |  |                 |                                  |     |         |                            |     |        |     |             |
| P5574                            | 0304210517  | AI in Threat Detection                             | Cyber Security  | 3                                | 2   | 4       | 15                         | 10  | 45     | 30  | 100         |
| T3748                            | 0304210518  | Data Privacy and identity Access Control           | Cyber Security  | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |
| P5576                            | 0304210519  | Digital Forensic                                   | Cyber Security  | 4                                | 0   | 4       | 0                          | 0   | 60     | 40  | 100         |

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|--|-------------|---|-----------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-------------|
|  |             |   |                 | Lectures                         | Lab |           | Practical                  |           | Theory     |            |             |
|  |             |   |                 |                                  |     |           | CA                         | ESE       | CA         | ESE        |             |
| <b>Total Required Credits</b>  |             |   |                 |                                  |     | <b>12</b> | <b>15</b>                  | <b>10</b> | <b>165</b> | <b>110</b> | <b>300</b>  |
| <b>Minor Course/s (Choose any one group other than the chosen Major)</b> |             |   |                 |                                  |     |           |                            |           |            |            |             |
| <b>Group 1 (Health Sciences)</b>   |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5557  | 0304210502  | HealthTech Entrepreneurship & Innovation      | Health Sciences | 1                                | 2   | 2         | 15                         | 10        | 15         | 10         | 50          |
| P5558  | 0304210503  | AI for Public Health Surveillance             | Health Sciences | 1                                | 2   | 2         | 15                         | 10        | 15         | 10         | 50          |
| P5560  | 0304210504  | AI for Mental Health Screening and Monitoring | Health Sciences | 1                                | 2   | 2         | 15                         | 10        | 15         | 10         | 50          |
| P5561  | 0304210505  | AI Integration in Robotics                    | Health Sciences | 1                                | 2   | 2         | 15                         | 10        | 15         | 10         | 50          |
| <b>Group 2 (Sports Sciences)</b>   |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5564  | 0304210508  | Content Creation in Sports using AI           | Sports Sciences | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5565  | 0304210509  | Applications in Sports Business               | Sports Sciences | 4                                | 0   | 4         | 0                          | 0         | 60         | 40         | 100         |
| <b>Group 3 (Agriculture)</b>   |             |   |                 |                                  |     |           |                            |           |            |            |             |
| P5567  | 0304210511  | Data Science for Climate Resilience Study     | Agriculture     | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5568  | 0304210512  | Design Thinking for Agribusiness Innovation   | Agriculture     | 4                                | 0   | 4         | 0                          | 0         | 60         | 40         | 100         |
| <b>Group 4 (Data Science)</b>  |             |   |                 |                                  |     |           |                            |           |            |            |             |

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|--|-------------|--|----------------|----------------------------------|-----|-----------|----------------------------|--------------|----------------|----------------|-----------------------------|
|  |             |  |                | Lectures                         | Lab |           | Practical                  |              | Theory         |                |                             |
|  |             |  |                |                                  |     |           | CA                         | ESE          | CA             | ESE            |                             |
| P5570  | 0304210514  | Computer Vision                          | Data Science   | 3                                | 2   | 4         | 15                         | 10           | 45             | 30             | 100                         |
| P5571  | 0304210515  | Data Science for FinTech                 | Data Science   | 4                                | 0   | 4         | 0                          | 0            | 60             | 40             | 100                         |
| <b>Group 5 (Cyber Security)</b>                      |             |  |                |                                  |     |           |                            |              |                |                |                             |
| P5574  | 0304210517  | AI in Threat Detection                   | Cyber Security | 3                                | 2   | 4         | 15                         | 10           | 45             | 30             | 100                         |
| T3748  | 0304210518  | Data Privacy and identity Access Control | Cyber Security | 4                                | 0   | 4         | 0                          | 0            | 60             | 40             | 100                         |
| <b>Total Required Credits</b>                        |             |  |                |                                  |     | <b>8</b>  | <b>15</b>                  | <b>10</b>    | <b>105</b>     | <b>70</b>      | <b>200</b>                  |
| <b>Mandatory Non-Credit Course/s</b>                 |             |  |                |                                  |     |           |                            |              |                |                |                             |
| SMC003   | 0304210520  | Health and Wellness *                    |                | 0                                | 0   | 0         | 0                          | 0            | 0              | 0              | Mandatory Non-Credit Course |
| <b>Total</b>   |             |  |                |                                  |     | <b>0</b>  | <b>0</b>                   | <b>0</b>     | <b>0</b>       | <b>0</b>       | <b>0</b>                    |
| <b>Grand Total</b>                                   |             |  |                |                                  |     | <b>22</b> | <b>135/60</b>              | <b>90/40</b> | <b>195/270</b> | <b>130/180</b> | <b>550</b>                  |
| <b>Semester : 6</b>                                  |             |  |                |                                  |     |           |                            |              |                |                |                             |
| <b>Discipline-Specific Course/s / Major Course/s</b> |             |  |                |                                  |     |           |                            |              |                |                |                             |

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**Annexure A**

| Catalog Course Code  | Course Code | Course Title              | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits   | Examination Scheme (Marks) |            |           |           | Total Marks |
|--|-------------|---------------------------|--------------|----------------------------------|-----|-----------|----------------------------|------------|-----------|-----------|-------------|
|  |             |                           |              | Lectures                         | Lab |           | Practical                  |            | Theory    |           |             |
|  |             |                           |              |                                  |     |           | CA                         | ESE        | CA        | ESE       |             |
| T5525  | 0304210601  | Research Methodology      |              | 2                                | 0   | 3         | 0                          | 0          | 75        | 0         | 75          |
| <b>Total</b>   |             |                           |              |                                  |     | <b>3</b>  | <b>0</b>                   | <b>0</b>   | <b>75</b> | <b>0</b>  | <b>75</b>   |
| <b>Summer Internship Course/s</b>  |             |                           |              |                                  |     |           |                            |            |           |           |             |
| T3912  | 0304210602  | Internship                |              | 0                                | 24  | 12        | 180                        | 120        | 0         | 0         | 300         |
| <b>Total</b>   |             |                           |              |                                  |     | <b>12</b> | <b>180</b>                 | <b>120</b> | <b>0</b>  | <b>0</b>  | <b>300</b>  |
| <b>Grand Total</b>   |             |                           |              |                                  |     | <b>15</b> | <b>180</b>                 | <b>120</b> | <b>75</b> | <b>00</b> | <b>375</b>  |
| <p>Note: Students exiting at the end of the sixth semester and earning 123 credits will be awarded a "Bachelor of Science (Artificial Intelligence)" degree. Total Credits at the end of the Third year (Major 60, Minor 25, Multidisciplinary 6, Ability Enhancement Courses 6, Skill Enhancement Courses 8, Summer Internship 12, Common Value-Added Courses 6).</p> |             |                           |              |                                  |     |           |                            |            |           |           |             |
| <b>Semester : 7</b>  |             |                           |              |                                  |     |           |                            |            |           |           |             |
| <b>Honours</b>   |             |                           |              |                                  |     |           |                            |            |           |           |             |
| <b>Major Course/s</b>  |             |                           |              |                                  |     |           |                            |            |           |           |             |
| P5521  | 0304210701  | GEN AI and LLM Essentials |              | 3                                | 2   | 4         | 15                         | 10         | 45        | 30        | 100         |
| P5522  | 0304210702  | MLops                     |              | 3                                | 2   | 4         | 15                         | 10         | 45        | 30        | 100         |
| P5578  | 0304210703  | Responsible AI            |              | 4                                | 0   | 4         | 0                          | 0          | 60        | 40        | 100         |
| P5579  | 0304210704  | Reinforcement Learning    |              | 2                                | 0   | 2         | 0                          | 0          | 30        | 20        | 50          |

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| Catalog Course Code          | Course Code | Course Title                             | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits   | Examination Scheme (Marks) |           |            |            | Total Marks |
|------------------------------|-------------|--|--------------|----------------------------------|-----|-----------|----------------------------|-----------|------------|------------|-------------|
|                              |             |  |              | Lectures                         | Lab |           | Practical                  |           | Theory     |            |             |
|                              |             |  |              |                                  |     |           | CA                         | ESE       | CA         | ESE        |             |
| F0002                        | 0304210705  | Flexi-Credit Course                      |              | 2                                | 0   | 2         | 0                          | 0         | 50         | 0          | 50          |
| <b>Total</b>                 |             |  |              |                                  |     | <b>16</b> | <b>30</b>                  | <b>20</b> | <b>230</b> | <b>120</b> | <b>400</b>  |
| <b>Minor Course/s</b>        |             |  |              |                                  |     |           |                            |           |            |            |             |
| P5580                        | 0304210706  | NOSQL Databases                          |              | 3                                | 2   | 4         | 15                         | 10        | 45         | 30         | 100         |
| P5581                        | 0304210707  | Recommender Systems                      |              | 4                                | 0   | 4         | 0                          | 0         | 60         | 40         | 100         |
| <b>Total</b>                 |             |  |              |                                  |     | <b>8</b>  | <b>15</b>                  | <b>10</b> | <b>105</b> | <b>70</b>  | <b>200</b>  |
| <b>Honours with Research</b> |             |  |              |                                  |     |           |                            |           |            |            |             |
| <b>Major Course/s</b>        |             |  |              |                                  |     |           |                            |           |            |            |             |
| P5572                        | 0304210708  | Literature Review and Research Synthesis |              | 4                                | 0   | 4         | 0                          | 0         | 60         | 40         | 100         |
| THM6022                      | 0304210709  | Scientific Paper Writing                 |              | 4                                | 0   | 4         | 0                          | 0         | 100        | 0          | 100         |
| THM6021                      | 0304210710  | Ethics in Research                       |              | 4                                | 0   | 4         | 0                          | 0         | 100        | 0          | 100         |
| P5582                        | 0304210711  | AI for Research                          |              | 4                                | 0   | 4         | 0                          | 0         | 100        | 0          | 100         |
| F0002                        | 0304210712  | Flexi-Credit Course                      |              | 2                                | 0   | 2         | 0                          | 0         | 50         | 0          | 50          |
| <b>Total</b>                 |             |  |              |                                  |     | <b>18</b> | <b>0</b>                   | <b>0</b>  | <b>410</b> | <b>40</b>  | <b>450</b>  |
| <b>Minor Course/s</b>        |             |  |              |                                  |     |           |                            |           |            |            |             |
| T3804                        | 0304210713  | Project                                  |              | 0                                | 8   | 4         | 60                         | 40        | 0          | 0          | 100         |

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| Catalog Course Code                             | Course Code | Course Title                 | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits      | Examination Scheme (Marks) |              |                |               | Total Marks    |
|---|-------------|------------------------------|--------------|----------------------------------|-----|--------------|----------------------------|--------------|----------------|---------------|----------------|
|   |             |                              |              | Lectures                         | Lab |              | Practical                  |              | Theory         |               |                |
|   |             |                              |              |                                  |     |              | CA                         | ESE          | CA             | ESE           |                |
| <b>Total</b>                                    |             |                              |              |                                  |     | <b>4</b>     | <b>60</b>                  | <b>40</b>    | <b>0</b>       | <b>0</b>      | <b>100</b>     |
| <b>Grand Total</b>                              |             |                              |              |                                  |     | <b>24/22</b> | <b>45/60</b>               | <b>30/40</b> | <b>335/410</b> | <b>190/40</b> | <b>600/550</b> |
| <b>Semester : 8</b>                             |             |                              |              |                                  |     |              |                            |              |                |               |                |
| <b>Honours</b>                                  |             |                              |              |                                  |     |              |                            |              |                |               |                |
| <b>Major Course/s</b>                           |             |                              |              |                                  |     |              |                            |              |                |               |                |
| P5528   | 0304210801  | Capstone Project             |              | 0                                | 24  | 12           | 180                        | 120          | 0              | 0             | 300            |
| T3804   | 0304210802  | Seminar                      |              | 4                                | 0   | 4            | 0                          | 0            | 60             | 40            | 100            |
| <b>Total</b>                                    |             |                              |              |                                  |     | <b>16</b>    | <b>180</b>                 | <b>120</b>   | <b>60</b>      | <b>40</b>     | <b>400</b>     |
| <b>Honours with Research</b>                    |             |                              |              |                                  |     |              |                            |              |                |               |                |
| <b>Major Course/s</b>                           |             |                              |              |                                  |     |              |                            |              |                |               |                |
| P5585   | 0304210803  | Intellectual Property Rights |              | 2                                | 0   | 2            | 0                          | 0            | 30             | 20            | 50             |
| <b>Total</b>                                    |             |                              |              |                                  |     | <b>2</b>     | <b>0</b>                   | <b>0</b>     | <b>30</b>      | <b>20</b>     | <b>50</b>      |
| <b>Minor Course/s</b>                           |             |                              |              |                                  |     |              |                            |              |                |               |                |
| P5527   | 0304210804  | Advanced Research Methods    |              | 4                                | 0   | 4            | 0                          | 0            | 60             | 40            | 100            |
| <b>Total</b>                                    |             |                              |              |                                  |     | <b>4</b>     | <b>0</b>                   | <b>0</b>     | <b>60</b>      | <b>40</b>     | <b>100</b>     |
| <b>Research Project / Dissertation Course/s</b> |             |                              |              |                                  |     |              |                            |              |                |               |                |

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| Catalog Course Code   | Course Code | Course Title     | Major/ Minor | Teaching Scheme (Hours Per Week) |     | Credits      | Examination Scheme (Marks) |            |              |              | Total Marks    |
|---|-------------|------------------|--------------|----------------------------------|-----|--------------|----------------------------|------------|--------------|--------------|----------------|
|   |             |                  |              | Lectures                         | Lab |              | Practical                  |            | Theory       |              |                |
|   |             |                  |              |                                  |     |              | CA                         | ESE        | CA           | ESE          |                |
| T3812   | 0304210805  | Research Project |              | 0                                | 24  | 12           | 180                        | 120        | 0            | 0            | 300            |
| <b>Total</b>  |             |                  |              |                                  |     | <b>12</b>    | <b>180</b>                 | <b>120</b> | <b>0</b>     | <b>0</b>     | <b>300</b>     |
| <b>Grand Total</b>  |             |                  |              |                                  |     | <b>16/18</b> | <b>180</b>                 | <b>120</b> | <b>60/90</b> | <b>40/60</b> | <b>400/450</b> |
| <p>Note: Total Credits at the end of Fourth year for "Bachelor of Science (Artificial Intelligence) - Honours" - 163 (Major 92, Minor 33, Multidisciplinary 6, Ability Enhancement Courses 6, Skill Enhancement Courses 8, Summer Internship 12, Common Value-Added Courses 6).</p> <p>Total Credits at the end of Fourth year for "Bachelor of Science (Artificial Intelligence) - Honours with Research" - 163 (Major 80, Minor 33, Multidisciplinary 6, Ability Enhancement Courses 6, Skill Enhancement Courses 8, Summer Internship 12, Research Project / Dissertation - 12, Common Value-Added Courses 6).</p> |             |                  |              |                                  |     |              |                            |            |              |              |                |

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| Semester                     | 100% Continuous Assessment Credits | Term End (University) Examination Credits | Total Credits | Total Marks |
|------------------------------|------------------------------------|---|---------------|-------------|
| Semester 1                   | 5                                  | 15  | 20            | 500         |
| Semester 2                   | 8                                  | 15  | 23            | 575         |
| Semester 3                   | 3                                  | 19  | 22            | 550         |
| Semester 4                   | 7                                  | 14  | 21            | 525         |
| Semester 5                   | 0                                  | 22  | 22            | 550         |
| Semester 6                   | 3                                  | 12  | 15            | 375         |
| <b>Total</b>                 | <b>26</b>                          | <b>97</b>                                 | <b>123</b>    | <b>3075</b> |
| <b>Honours</b>               |                                    |   |               |             |
| Semester 7                   | 2                                  | 22  | 24            | 600         |
| Semester 8                   | 0                                  | 16  | 16            | 400         |
| <b>Total</b>                 | <b>28</b>                          | <b>135</b>                                | <b>163</b>    | <b>4075</b> |
| <b>Honours with Research</b> |                                    |   |               |             |
| Semester 7                   | 14                                 | 8   | 22            | 550         |
| Semester 8                   | 0                                  | 18  | 18            | 450         |
| <b>Total</b>                 | <b>40</b>                          | <b>123</b>                                | <b>163</b>    | <b>4075</b> |