

# tirpude

## INSTITUTE OF MANAGEMENT EDUCATION

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)  
1, Balasaheb Tirpude Marg, Civil Lines, Sadar, Nagpur

### Academic Regulation No. 05 of 2026

#### **REGULATION GOVERNING RULES FOR ADMISSIONS AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (DATA SCIENCE) AS PER THE GUIDELINES PROVIDED UNDER NATIONAL EDUCATION POLICY 2020**

Whereas, Tirpude Institute of Management Education, Nagpur, formerly known as Department of Management Studies and Research, Tirpude College of Social Work which came into existence vide Maharashtra Government Approval Letter No. NGC/ 3594/MBA/7459/MaShi dated 11 May 1994.

And

Whereas, Tirpude Institute of Management Education, Nagpur has been conferred Autonomy by The University Grants Commission through its letter number F.2-1/2023(AC-Policy) dated 9<sup>th</sup> September 2024.

And

Whereas, on having granted the Autonomous status, the duly constituted Board of Studies in Data Science has prepared and approved a Teaching and Examination Scheme for B.Sc. Data Science program in its meeting held on 26<sup>th</sup> November 2024 & 18<sup>th</sup> June 2025 and recommended for consideration and approval to the Academic Council of the Institute.

And

Whereas, the duly constituted Academic Council of the Institute approved the Teaching and Examination scheme for B.Sc. Data Science Program along with Draft Academic Regulations governing provisions for admissions, teaching, examinations and other relevant matters and recommended to the Governing Body of the Institute for consideration and approval in its meeting held on 8<sup>th</sup> November 2025.

And

Whereas, the duly constituted Governing Body of the Institute considered and approved the Academic Regulations recommended by the Academic Council in its meeting held on 20<sup>th</sup> November 2025.

And

Whereas, the Academic Regulation No. 5 of 2025 titled "Rules Governing Admissions And Examinations Leading To The Award Of Degree Of Bachelor Of Science (Data Science), Regulation" was issued.

And

Whereas, the duly constituted Board of Studies in Data Science has suggested some changes in the program framework and curriculum in its meeting held on 11<sup>th</sup> June 2026 which were approved by the Academic Council in its meeting held on 20.07.2026.

And

Whereas, it has become necessary to make necessary changes in the Academic Regulation No. 5 of 2025 and issue the new academic regulation for rules governing admissions and examination and other relevant matters leading to the award of degree of Bachelor of Science (Data Science), these Academic Regulations are issued and shall be effective from the date of its issuance.

1. This regulation shall be called "RULES GOVERNING ADMISSIONS AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (DATA SCIENCE), REGULATION, 2026"

2. This Regulation shall come into force from the date of its issuance and shall be applicable to all the students admitted to first year in academic session 2026-27 in B.Sc. (Data Science) program and shall govern all the students enrolled for B.Sc. (Data Science) program at the institute since 2024-25.
3. In this Regulation unless the context requires otherwise: -
- a. "Academic Council" means academic council constituted by the institute as per provisions of UGC Regulations, 2023 and responsible to scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc. for the conduct of all the programs in the college.
  - b. "Board of Studies" means the Board of Studies constituted by the institute as per provisions of UGC Regulations, 2023 and responsible for drafting syllabus and question paper pattern of various courses required for different UG and PG programmes.
  - c. "Student" means a student admitted to the B.Sc. Data Science program under this Regulation.
  - d. "Program" means the Bachelor of Science (Data Science) program under this Regulation.
  - e. "Course" means a theory, practical (or the combination of theory and practical) subject, and research project, prescribed for any semester and carrying maximum and minimum passing marks, which a student, admitted to the Bachelor of Science (Data Science) program, governed by this Regulation, must study to become eligible for the award of the Degree under this Regulation.
  - f. "Credit" means the unit by which the course work is measured. It is measured as 15 hours of teaching per credit for each theory course and 30 hours of teaching for each practical course.
  - g. "Grade Point" is the weight allotted to each grade letter depending on the marks awarded in a course/paper.
  - h. "Grade Letter" is an index to indicate the performance of a student in a particular course/ paper. It is the transformation of actual marks secured by a student in a course/paper. It is indicated by a Grade letter O,A,B,C,D,E and F. There is a range of marks for each Grade.
  - i. "Credit Point" (CP) is the value obtained by multiplying the Grade Point by the Credit i.e. No. of Credits assigned for the course x Grade Points secured for that course.
  - j. "Semester Grade Point Average (SGPA)" indicates the performance of a student in a given semester. It is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.
  - k. "Cumulative Grade Point Average (CGPA)" CGPA refers to the Cumulative Grade Point Average weighted across all the Semesters. It is obtained by dividing total number of credit points in all the Semesters by the total number of credits in all the Semesters.
  - l. "Degree" means the degree of Bachelor of Science (Data Science).
  - m. "MOOCs" means the Massive Online Open Courses offered on SWAYAM, NPTEL, Department of Life Long Learning of RTMNU or any other such portals like Udemy, Edex, CourseEra etc. provided that the course completion certificate issued by all such platforms clearly mentions number of instructional hours required to complete the course and number of credits for the course.
  - n. "ATKT" means "Allowed To Keep Term" in the higher semester, as per the rules herein.
  - o. "University" means parent or affiliating university- Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

4. Duration of the program

| Sr. No. | Certificate /Degree                | Min. Duration |
|---------|------------------------------------|---------------|
| 1       | Certificate in Data Science        | 1 Year        |
| 2       | Diploma in Data Science            | 2 Years       |
| 3       | Bachelor of Science (Data Science) | 3 Years*      |

*\*Maximum duration for completing the B.Sc. (Data Science) Degree Program shall be 7 years from the year of admission to the first year of program.*

The B.Sc. (Data Science) program spans three years, divided into six semesters consisting of Semester-I and II in first year and Semester-III and IV in second year and Semester-V and VI in third year. Each Semester shall have minimum 90 days of teaching before the commencement of any End Semester Examination of B.Sc. (Data Science)

5. Programme Code: BSTBDS

6. Mode of Conduct: Regular Full Time

7. Eligibility for Admission in B.Sc. (Data Science) First Year

For the B.Sc. (Data Science) 1st semester admission, the examinee shall have Passed the HSC or equivalent from any State Board or any other Board recognized by UGC with English at Higher or Lower level with any three Science subjects comprised in the Faculty of Science with Mathematics or an examination recognised as equivalent there to in such subjects and with such standards of attainments as may be prescribed.

8. Re-entry or Lateral Entry:

- Students, opting for exit at any level, will have the option to re-enter the programme from where they have left off, in the institution within three years of exit and complete the degree programme within the stipulated maximum period of SEVEN years from the date of admission to first year.
- Re-entry at various levels for lateral entrants in the B.Sc. (Data Science) program shall be based on the earned and valid credits as deposited and accumulated in the Academic Bank of Credits (ABC) through the institute.
- Lateral entry into the programme of study leading to the UG Diploma / Three Year UG Degree will be based on the validation of prior learning outcomes achieved and subject to availability seats based on intake capacity.

9. Program Outcomes (POs):

|      | Graduate Attribute                      | Outcome                                                                                                                                                                                                                                                    |
|------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 1 | Problem Solving Ability                 | The graduate will be able to <b>Apply</b> foundational concepts of mathematics, statistics, and programming to solve data-driven problems.                                                                                                                 |
| PO 2 | Analytical and Critical Thinking Skills | The graduate will be able to <b>Analyze</b> datasets using statistical, analytical, and machine learning methods to derive meaningful insights and <b>Design</b> and <b>create</b> clear, impactful data visualizations and dashboards for decision-making |
| PO 3 | Designing and Value Creation            | The graduate will be able to <b>identify/develop</b> data driven business opportunities/ideas, design analytical solutions, and <b>apply</b> innovative technologies sustainable and scalable growth.                                                      |

|      |                                    |                                                                                                                                                                                                                                                           |
|------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 4 | Effective Communication            | The graduate will <b>exhibit</b> effective communication of information, ideas, arguments and/or reports orally, written and through digital mode to diverse stakeholders                                                                                 |
| PO 5 | Cooperation and Teamwork           | The graduate will <b>develop</b> interpersonal and collaborative skills to work effectively in diverse teams, contributing to shared goals and respecting cultural and individual differences                                                             |
| PO 6 | Ethics and Social Responsibility   | The graduate will be able to <b>demonstrate</b> ethical values, integrity, and commitment to sustainable and socially responsible practices                                                                                                               |
| PO 7 | Lifelong learning and Adaptability | The graduate will <b>demonstrate</b> a commitment to continuous learning and upskilling, adapting to new technologies and evolving industry demands.                                                                                                      |
| PO 8 | Community Wellbeing                | The graduate will <b>demonstrate</b> understanding of social, cultural, and community issues and contribute to community development through responsible citizenship, ethical behavior, and participative engagement for inclusive and sustainable growth |

#### 10. Academic Instructions and Evaluation Scheme for B.Sc. (Data Science) Program:

A detailed scheme for academic instructions and evaluation for B. Sc. (Data Science) program shall be followed as mentioned in Annexure – I.

#### 11. Types of Courses

Courses include:

- Discipline Specific Core Course – A Discipline Specific Core (Major) Course is a compulsory course that provides essential knowledge, skills and conceptual frameworks.
- Minor Courses – A Minor Course is a course that is designed to complement the Major Course
- Ability Enhancement Courses (AEC) – These courses are compulsory foundational courses designed to enhance student competencies crucial for academic success and employability.
- Open Elective (OE) – These are the courses that a student can select from any Discipline apart from the existing Discipline, based on his/her interest.
- Value Added Courses (VAC) – These are the courses designed to integrate ethical, moral, humanistic values and foster empathy and social responsibility.
- Skill Enhancement Courses (SEC) – These are the courses that a student has to select in order to develop hands on competencies, vocational abilities and applied knowledge.
- Discipline-Specific Electives (DSE) – These are the courses offered within the Major Discipline that allows learners to select from a given basket of specialised courses in order to develop their core knowledge and prepare them for research and industry.
- Vocation Skill Courses (VSC) - These are the courses designed to provide hands on training and industry- relevant skills to the students at various stages of education, with the goal of making them employable, entrepreneurial and self-reliant.

#### 12. Assessment and Evaluation

- In order to become eligible for the End Semester Examination (ESE) of any of the semesters, the student must have secured minimum 75% attendance in the said semester.
- The End Semester written/ practical examination of all the courses shall be conducted by the institute.

- Assessment of a student's performance shall be held as per the evaluation methods specified in the respective course descriptor having a bifurcation of Continuous Assessment (CA) and End Semester Examination (ESE).
- The mechanism for Continuous Assessment will be at the sole discretion of the course faculty who will have to design and conduct assessment of the course using various means like MCQ test, written assignment, class test, presentations, role play, case analysis, field visit or any method deemed fit for the assessment of the course. The details of such assessment and evaluation shall be clearly mentioned in the course descriptor of the said course.
- Marks for Continuous Assessment, awarded on the basis of MCQ test, class tests, assignment etc. as prescribed above by the faculty in the respective course and moderated by the Principal/Dean shall be notified to the students at least 5 days before the commencement of the End Semester Examination.
- Unless contradictory to the provisions of this academic regulation, all provisions related to conduct of examination and evaluation of students shall be effected as mentioned in a separate regulation titled 'Regulation Governing Norms and Procedures related to examination and evaluation' issued by the competent authority.

### 13. Eligibility for Award of Certificate/Diploma/Degree:

| Semester Completion | No. of Minimum Credits Required | Additional Credit Requirement                                                                      | Eligible For                                                                |
|---------------------|---------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| I and II            | 44                              | 4 credits for NSQF Course/ Course approved by Centre of Life-Long Learning, /Internship/MOOCs      | Certificate in Data Science<br>OR<br>Continue with the 2 <sup>nd</sup> Year |
| III and IV          | 44 + 40 = 84                    | 4 credits for NSQF Course/ Course approved by Centre of Life-Long Learning, RTMNU/Internship/MOOCs | Diploma in Data Science<br>OR<br>Continue with 3 <sup>rd</sup> Year         |
| V and VI            | 44 + 40 + 41 = 125              | Not Required                                                                                       | Bachelor of Science (Data Science)                                          |

### Eligibility for Award of Degree and Nomenclature of the Degree:

- a. A student who earns minimum 125 credits in not less than three years becomes eligible for the award of 'Bachelor of Science (Data Science)' Degree.
- b. The degree certificate shall have the mention of 'Data Science' as a Major subject opted by the student during the program.

### 14. Standard of Passing

The scope of the course, percentage of passing in End Semester Examination, Continuous Assessment, Internships, Research Project, shall be governed as per following rules:

- (i) In order to pass the Bachelor of Science (Data Science) 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> Semester Examinations, an examinee shall obtain not less than 40% marks in each theory course taking CA and ESE together and not less than 50% marks in practical course.
- (ii) An examinee who is unsuccessful in any examination shall be eligible for the same at subsequent examination by payment of a fresh fee prescribed for such examinations.

## 15. Provision for Transfer of Credits

The B.Sc. (Data Science) program offered under this direction provides enhanced academic flexibility to students in terms of selecting the courses they want to learn. A student can opt for any course from any statutory/recognized University or a MOOC from SWAYAM/NPTEL , UDEMY, EDEX, COURSERA or Department of LifeLong Learning, RTMNU or any other institutes affiliated to Department of LifeLong Learning, RTMNU or any other online platform in lieu of a course other than Major/ Core courses, Discipline Specific Elective courses, Summer Internship, Project, Field Project and Capstone Project, provided that the course completion certificate issued by such platforms clearly mentions number of instructional hours and credits for the course.

The mechanism for transfer of credits earned through these courses to be adhered as mentioned below:

1. Every student shall mandatorily require to create an ID on Academic Bank of Credits (ABC) and shall submit her/his ID to the institute.
2. A student cannot opt out of any course/ courses mentioned as Major/ Core courses, Discipline Specific Elective courses, Summer Internship, Research Project.
3. If a student is willing to opt out of any course, other than Major/ Core courses, Discipline Specific Elective courses, Summer Internship, Research Project, he/she shall have to mention this while submitting the examination form to the institute for respective semester.
4. A certificate of completion of such MOOC course shall be submitted by the student to the Examination Committee/ Controller of Examination before the evaluation of end semester examination commences.
5. Such a certificate shall mandatorily have the number of credits; duration of the course and grades/marks obtained by the student and shall preferably have a QR code for verification.
6. If a student has opted for a MOOC course in a particular semester and failed to submit the certificate within prescribed time, the student shall be marked as 'Absent' for that particular course. Such a student shall be required to fill in the examination form in the consecutive attempt and submit the passing certificate in order to get his/her corrected result.
7. **Normalization of Marks:** There is a possibility that the composition of marks for ODL/ONLINE course may deviate from the composition of marks under this scheme of examination. In such a case the total marks (Proctored Examination + Assignments) obtained by a student in ODL/ONLINE course shall be proportionately converted by taking a basis of total maximum marks prescribed in this Scheme of Examination and such normalized marks be split (Theory, Practical and CIE) in the proportion as prescribed under this scheme of examination.

### Normalization Formula:

*Proportionate Marks*

$$= \frac{\text{Marks obtained in Online/ODL course}}{\text{Max. Marks of Online/ ODL course}} \times \text{Max. Marks under this Scheme}$$

### Example:

| Case | Marks under this Scheme of Examination |                    |                  |             | Marks under ODL/Online Scheme          |                              |             | Marks Obtained by Student |            |       |
|------|----------------------------------------|--------------------|------------------|-------------|----------------------------------------|------------------------------|-------------|---------------------------|------------|-------|
|      | Max. Marks SEE (TH) *                  | Max Marks SEE (PR) | Max. Marks (CIE) | Total Marks | Max. Marks Proctored Examination (SEE) | Max. Marks Assignments (CIE) | Total Marks | Proctored Examination     | Assignment | Total |
| A    | 60                                     | --                 | 40               | 100         | 75                                     | 25                           | 100         | 46                        | 20         | 66*   |
| B    | --                                     | 50                 | 50               | 100         | 75                                     | 25                           | 100         | 46                        | 20         | 66*   |
| C    | --                                     | --                 | 100              | 100         | 75                                     | 25                           | 100         | 46                        | 20         | 66*   |

\*while converting, marks will be rounded off to the next integer if fraction is  $\geq 0.5$

**Normalization of Total Marks:**

$$\text{Proportionate Marks} = \frac{46+20}{100} \times 100$$

= 66 Marks

**Distribution of normalized marks as prescribed by this Scheme of Examination**

| Case | Total Normalized Marks | Composition of Marks prescribed as per this Scheme of Examination |                    |                  |             | Proportionate Distribution of Marks as per this Scheme of Examination |                         |                      |                      |
|------|------------------------|-------------------------------------------------------------------|--------------------|------------------|-------------|-----------------------------------------------------------------------|-------------------------|----------------------|----------------------|
|      |                        | Max. Marks SEE (TH) *                                             | Max Marks SEE (PR) | Max. Marks (CIE) | Total Marks | Marks Obtained SEE (TH) *                                             | Marks Obtained SEE (PR) | Marks Obtained (CIE) | Total Marks Obtained |
| A    | 66                     | 60                                                                | --                 | 40               | 100         | 40                                                                    | --                      | 26                   | 66                   |
| B    | 66                     | --                                                                | 50                 | 50               | 100         | --                                                                    | 33                      | 33                   | 66                   |
| C    | 66                     | --                                                                | --                 | 100              | 100         | --                                                                    | --                      | 66                   | 66                   |

8. If a student has opted for an ODL/Online course in a particular semester and failed to obtain minimum passing marks as per this scheme of examination, the student shall be declared 'Failed' in that particular course. Such a student will be required to fill in the examination form in the consecutive attempt and submit the passing certificate in order to get his/her corrected result.
9. If a student has opted for an ODL/Online course in a particular semester and failed to submit the course completion certificate within prescribed time for whatsoever reason, then the result of a student for that semester shall be 'WITHELD' until he/she submits the course completion certificate with marks/grades to the university through college.

**16. Promotion to higher semesters (ATKT)**

The unsuccessful candidate of any semester examination shall be ALLOWED TO KEEP THE TERM (ATKT) in accordance with the following table: (Theory, Practical and Continuous Evaluation of a course shall be jointly considered as single passing head).

| Sr. No. | Semester     | Eligibility for admission and appearing End Session Examination                                                                                                       |
|---------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Semester I   | Candidates should have passed the qualifying examination (HSC or Equivalent) as per the relevant Direction governing the programme.                                   |
| 2       | Semester II  | As above                                                                                                                                                              |
| 3       | Semester III | Candidate should have passed 50% of Semester I and semester II courses, combined, rounded up to next complete number                                                  |
| 4       | Semester IV  | A Candidate should have passed 50% of Semester I and semester II courses, combined and filled examination form of semester III                                        |
| 5       | Semester V   | Candidate should have passed all courses of Semester I, II and 50% of Semester III and semester IV courses, combined, rounded up to next complete number              |
| 6       | Semester VI  | A Candidate should have passed all courses of Semester I, II and 50% of Semester III and semester IV courses, combined, and filled the examination form of semester V |

**Note:** A candidate admitted to Final Semester (6th semester) of the programme can appear for Final Semester examination however the result of the Final Semester examination will be withheld (NCL – Not Cleared lower semester examinations) unless the candidate clears all the lower examinations of the Programme.

#### **17. Absorption Scheme:**

Students admitted to the B.Sc. (Data Science) program under previous directions shall be allowed to take admission in the current regulations only if the annual credits earned previously by the candidate are equal to or more than the current annual credit requirement laid down by the institute under the current regulations.

##### **A. Absorption of students to 2<sup>nd</sup> year (3<sup>rd</sup> Semester) of B.Sc. (Data Science) under this regulation:**

- a. Students who have passed 1<sup>st</sup> year (1<sup>st</sup> and 2<sup>nd</sup> Semester) of B.Sc. (Data Science) program under previous B.Sc. (Data Science) (OB-CBCS) direction will be allowed for admission to 2<sup>nd</sup> year (3<sup>rd</sup> Semester) of B.Sc. (Data Science) program under this regulation.
  - i. SGPA of 1<sup>st</sup> and 2<sup>nd</sup> semester examinations of such students will be considered while processing the second-year result.
- b. Students who have failed in one or more subjects of 1<sup>st</sup> year (1<sup>st</sup> and/or 2<sup>nd</sup> Semesters) of B.Sc. (Data Science) program under previous B.Sc. (Data Science) (OB-CBCS) direction but are eligible for admission to 2<sup>nd</sup> year (3<sup>rd</sup> Semester) under ATKT rules of the previous direction will be allowed for admission to 2<sup>nd</sup> year of B.Sc. (Data Science) program under this regulation.
  - i. Such students will be required to appear and pass their backlog papers at university examinations as per previous direction during the attempts as mentioned by the affiliating university from time to time.
  - ii. If such student fails to pass any of the backlog subjects in provided number of attempts, she/he will not be absorbed in this scheme of examination and shall be required to take a fresh admission to 1<sup>st</sup> year of B.Sc. (Data Science) program under this regulation.

##### **B. Absorption of students to 3<sup>rd</sup> year (5<sup>th</sup> Semester) of B.Sc. (Data Science) under this regulation:**

- a. Students who have passed 1<sup>st</sup> and 2<sup>nd</sup> year (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Semester) of B.Sc. (Data Science) program under previous B.Sc. (Data Science) (OB-CBCS) direction will be allowed for admission to 3<sup>rd</sup> year (5<sup>th</sup> Semester) of B.Sc. (Data Science) program under this regulation.
  - i. SGPA of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> semester examinations of such students will be considered while processing the third-year result.
- b. Students who have failed in one or more subjects of 2<sup>nd</sup> year (3<sup>rd</sup> and/or 4<sup>th</sup> Semesters) of B.Sc. (Data Science) program under previous B.Sc. (Data Science) (OB-CBCS) direction but are eligible for admission to 3<sup>rd</sup> year (5<sup>th</sup> Semester) under ATKT rules of the previous direction will be allowed for admission to 3<sup>rd</sup> year of B.Sc. (Data Science) program under this regulation.
  - i. Such students will be required to appear and pass their backlog papers at university examinations as per previous direction during the attempts as mentioned by the university from time to time.
  - ii. If such student fails to pass any of the backlog subjects in provided number of attempts, she/he will not be absorbed in this scheme of examination and shall be required to take a fresh admission to 2<sup>nd</sup> year of B.Sc. (Data Science) program under this regulation.

**C. Absorption of students from other Non-Autonomous/Autonomous colleges:**

- a. Students from other non-autonomous or autonomous institutions affiliated to any state/central university shall be allowed to take admission to 2<sup>nd</sup> year (3<sup>rd</sup> Semester) of this program provided the student has passed all courses/subjects of 1<sup>st</sup> and 2<sup>nd</sup> semester examinations.
  - i. SGPA of 1<sup>st</sup> and 2<sup>nd</sup> semester examinations of such students will be considered while processing the second-year result.
- b. Students from other non-autonomous or autonomous institutions affiliated to any state/central university shall be allowed to take admission to 3<sup>rd</sup> year (5<sup>th</sup> Semester) of this program provided the student has passed all courses/subjects of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> semester examinations.
  - i. SGPA of 1<sup>st</sup> and 2<sup>nd</sup> semester examinations of such students will be considered while processing the second-year result.
  - ii. A student with backlog papers shall not be allowed for admission under this clause.

**D. Discontinuation of Course/s:** In case, any course/s are prescribed in the scheme of teaching and examination mentioned in this regulation is discontinued by the competent authority, the Institute shall continue to conduct examinations for THREE attempts and students who fail shall clear the course/s within those THREE attempts. After, that the students who fail shall be required to pursue the course/s replacing such course/s by seeking provisional admission by paying a fee of Rs. 2000 per course.

**18. Evaluation of Internship/Research Project:**

Internship and Research shall be compulsory for each student appearing 5<sup>th</sup> and 6<sup>th</sup> Semester respectively.

- (i) **Internship:** Each student has to mandatorily undergo Summer Internship Project (SIP) of 45 – 60 days. The SIP will commence after the end session examination of Semester IV. The SIP will be considered as a separate course having 4 credits and will be evaluated along with end session examination of Semester V.
- (ii) **Research Project:** The Capstone Project shall be a mandatory 45-day research-intensive course in 6<sup>th</sup> semester, carrying 3 credits. The student shall prepare a detailed research report and a formal presentation demonstrating analytical depth, critical thinking, and a holistic understanding of business functions, which will be evaluated during the end-session examination of Semester VI.
- (iii) Internship/Research Project shall carry 100 marks each as follows:

| Heads of Passing                                                                | Marks |
|---------------------------------------------------------------------------------|-------|
| Project Report Evaluation and Viva Voce by External Examiner/Industry Personnel | 50    |
| Project Report Evaluation and Viva Voce by Internal Examiner                    | 50    |

- (iv) The internship (5<sup>th</sup> Semester) and Research Project (6<sup>th</sup> Semester) shall be taken up on individual basis.

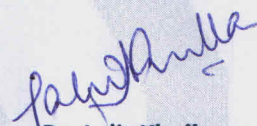
- (v) For Internship/ Research Project a batch of Maximum **TWENTY projects** per guide/supervisor have to be allotted by the Institute.
- (vi) The Guide/Supervisor shall act as an internal examiner for Internship/ Research Project Examination.
- (vii) The guide or the supervisor shall be appointed by the institute and should be teaching in the M.Sc Computer Science/ MCA / M.Tech / B.Sc Data Science/ B.Tech Programme with minimum qualifications as prescribed by UGC/AICTE for Assistant Professor.
- (viii) The External examiner for Internship/ Research Project Evaluation shall be appointed by the institute from the list of full-time teaching faculty of the M.Sc Computer Science/ MCA / M.Tech / B.Sc Data Science/ B.Tech programme of any other institute/ University or Industry expert.
- (ix) Each such External examiner shall examine a maximum of TWENTY projects in the academic year.
  - ONE copy of Internship report/project work (Printed and hard bound) shall be submitted to the Institute at least one month before the commencement of the respective ESE for evaluation purpose.
  - A Candidate shall submit with his/her project work, a certificate from the Supervisor to the effect:-
    - That the candidate has satisfactorily completed the Internship/Project work for not less than prescribed number of hours mentioned in the directions.
    - That the Project work is the result of the candidate's own work and is of sufficiently high standard to warrant its presentation for examination.
    - The candidate shall submit his declaration that the Internship/Project is the result of his own research work and the same has not been previously submitted for any examination. The Project shall be liable to be rejected and /or cancelled if found otherwise.
    - The Internship/Project work shall be evaluated through Seminar and Viva-voce at the Institute by internal and external examiner appointed by Controller of Examination within 10 days of the completion of the respective semester examination.

19. Each student admitted to this program is required to earn adequate number of credits for Co-curricular courses as prescribed in the teaching and examination scheme. Guidelines and modalities related to evaluation of CC courses is described in Annexure No. \_\_\_\_.

20. If any question of interpretation of any clause arises for this Regulation and related annexures, the same shall be referred to the Director of the Institute whose decision in consultation with the Dean shall be final and binding on all concerned.

**21. Provision for Amendment:**

In case, any amendment is required to be made in provisions mentioned in this regulation, the same shall be recommended by the Board of Studies concerned and approved by the Academic Council and Governing Body of the Institute. A separate notification of amendment along with a revised regulation need to be issued by the competent authority.

  
Dr. Lalit Khullar

Director

**Director**

Tirpude Institute of Management Education  
1, Balasaheb Tirpude Marg, Civil Lines, Sadar, Nagpur

**Annexure – 1 (Version 1.0)**

**B. Sc. (Data Science)**

**Instruction and Evaluation Scheme**

**B.Sc. Data Science Semester I**

| Sr. No       | Course Type | Course Name                                    | Course Code | Instructional Hours |           | Max Marks ESE    |           | Max Marks CA     | Total Marks | Minimum Passing Marks | Credits |
|--------------|-------------|------------------------------------------------|-------------|---------------------|-----------|------------------|-----------|------------------|-------------|-----------------------|---------|
|              |             |                                                |             | Theory              | Practical | Theory           | Practical |                  |             |                       |         |
| 1            | DSC/IKS     | Linear Algebra & Vedic Mathematics             | MT/LV/001   | 60                  | 0         | 50               | -         | 50               | 100         | 40                    | 4       |
| 2            | DSC         | Programming using Python (Theory + Lab)        | IT/PP/001B  | 30                  | 60        | 40               |           | 60               | 100         | 40                    | 4       |
| 3            | AEC         | Foundations of English                         | LG/FE/001   | 60                  | 0         | 50               |           | 50               | 100         | 40                    | 4       |
| 4            | SEC         | Foundations of Data and Information Management | IT/DIM/001  | 45                  | 30        | 40               | -         | 60               | 100         | 40                    | 4       |
| 5            | VEC         | Environmental Science                          | BS/ES/001   | 30                  | 0         | 60               | -         | 40               | 100         | 40                    | 2       |
| 6            | OE          | Select from OE Basket (Any ONE)                |             | As per OE Basket    |           | As per OE Basket |           | As per OE Basket | 100         | 40                    | 2       |
| 7            | CC          | Co-curricular Course                           | CC1         |                     |           |                  |           |                  |             |                       | 2       |
| <b>Total</b> |             |                                                |             |                     |           |                  |           |                  | 600         | 240                   | 22      |

**OPEN ELECTIVE for SEMESTER I**

| S.No | Course Type | Open Electives Basket               | Course Code | Instructional Hours |           | Max Marks ESE |           | Max Marks CA | Total Marks | Minimum Passing Marks | Credit |
|------|-------------|-------------------------------------|-------------|---------------------|-----------|---------------|-----------|--------------|-------------|-----------------------|--------|
|      |             |                                     |             | Theory              | Practical | Theory        | Practical |              |             |                       |        |
| 1    | OE          | Financial Literacy                  | FA/FL/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 2    | OE          | Psychological Thinking              | PS/TP/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 3    | OE          | Health Economics                    | EC/HE/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 4    | OE          | Basics of French Language           | LG/FL/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 5    | OE          | Principles and Practices of Banking | FA/PB/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 6    | OE          | Data Ethics                         | DS/DE/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 7    | OE          | Ethical Hacking                     | IT/EH/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |

**B.Sc. Data Science Semester II**

| Sr. No       | Course Type | Course Name                     | Course Code | Instructional Hours |           | Max Marks ESE    |           | Max Marks CA     | Total Marks | Minimum Passing Marks | Credits |
|--------------|-------------|---------------------------------|-------------|---------------------|-----------|------------------|-----------|------------------|-------------|-----------------------|---------|
|              |             |                                 |             | Theory              | Practical | Theory           | Practical |                  |             |                       |         |
| 1            | DSC         | Data Structures                 | IT/DS/002   | 43                  | 30        | 40               | -         | 60               | 100         | 40                    | 4       |
| 2            | DSC         | Principles of Data Science      | DS/PD/001   | 15                  | 28        | 50               |           | 50               | 100         | 40                    | 2       |
| 3            | DSC         | Operating Systems               | IT/OS/001A  | 45                  | 30        | 40               | -         | 60               | 100         | 40                    | 4       |
| 4            | AEC         | Basics of MS Excel              | IT/BC/001A  | 24                  | 75        |                  | 30        | 70               | 100         | 50                    | 4       |
| 5            | AEC         | Comprehensive Communication B   | LG/CC/002B  | 30                  | 0         | 50               | -         | 50               | 100         | 40                    | 2       |
| 6            | SEC         | Digital Image Processing        | DS/IP/001   | 30                  | 0         |                  | 50        | 50               | 100         | 50                    | 2       |
| 7            | OE          | Select from OE Basket (Any ONE) |             | As per OE Basket    |           | As per OE Basket |           | As per OE Basket | 100         | 40                    | 2       |
| 8            | CC          | Co-curricular Course            | CC 2        |                     |           |                  |           |                  |             |                       | 2       |
| <b>Total</b> |             |                                 |             |                     |           |                  |           |                  | 700         | 300                   | 22      |

**OPEN ELECTIVE for SEMESTER II**

| S.No | Course Type | Open Electives Basket                 | Course Code | Instructional Hours |           | Max Marks ESE |           | Max Marks CA | Total Marks | Minimum Passing Marks | Credit |
|------|-------------|---------------------------------------|-------------|---------------------|-----------|---------------|-----------|--------------|-------------|-----------------------|--------|
|      |             |                                       |             | Theory              | Practical | Theory        | Practical |              |             |                       |        |
| 1    | OE          | Cyber Psychology                      | PS/CYP/001  | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 2    | OE          | Basics of E-Commerce                  | IT/EC/001   | 23                  | 15        | 40            |           | 60           | 100         | 40                    | 2      |
| 3    | OE          | Basics of German Language             | LG/GL/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 4    | OE          | Principles and Practices of Insurance | FA/PI/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 5    | OE          | Introduction to Data Science          | DS/ID/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 6    | OE          | Internet of Things                    | IT/IO/002   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |

A student can exit the program after successful completion of 1st and 2nd semesters having earned requisite number of credits as mentioned in the scheme of examination and additional 4 credits from the list of courses mentioned in NSQF/ Centre of Life-Long Learning (RTMNU) /Internship/MOOCs. Such a student shall be eligible for the award of Certificate in Science (Data Science) by the University.

OR

A student can continue the program in 2nd year.

**B.Sc. Data Science Semester III**

| Sr. No       | Course Type | Course Name                       | Course Code        | Instructional Hours |           | Max Marks ESE    |           | Max Marks CA     | Total Marks | Minimum Passing Marks | Credits |
|--------------|-------------|-----------------------------------|--------------------|---------------------|-----------|------------------|-----------|------------------|-------------|-----------------------|---------|
|              |             |                                   |                    | Theory              | Practical | Theory           | Practical |                  |             |                       |         |
| 1            | DSC         | JAVA Programming (Theory + Lab)   | IT/IP/002          | 30                  | 30        | 40               | -         | 60               | 100         | 40                    | 3       |
| 2            | DSC         | Quantitative Methods for Business | SS/QM/002          | 45                  | 0         | 50               |           | 50               | 100         | 40                    | 3       |
| 3            | DSC         | Computer Networking               | IT/CN/001          | 45                  | 0         | 40               |           | 60               | 100         | 40                    | 3       |
| 4            | DSC         | Graphic Designing                 | IT/GD/001          | 30                  | 30        | 40               | -         | 60               | 100         | 40                    | 3       |
| 5            | AEC         | Aptitude Development              | BS/AD/001          | 30                  | 0         | 50               |           | 50               | 100         | 40                    | 2       |
|              | VSC         | Advanced Excel                    | IT/EX/002          | 15                  | 30        |                  | 30        | 70               | 100         | 50                    | 2       |
| 6            | OE          | Select from OE Basket (Any ONE)   | Select from Basket | As per OE Basket    |           | As per OE Basket |           | As per OE Basket | 100         | 40/50                 | 2       |
| 7            | CC          | Co-curricular Course              | CC3                |                     |           |                  |           |                  |             |                       | 2       |
| <b>Total</b> |             |                                   |                    |                     |           |                  |           |                  | 700         | 290/300               | 20      |

**OPEN ELECTIVE for SEMESTER III**

| S.No | Course Type | Open Electives Basket                      | Course Code | Instructional Hours |           | Max Marks ESE |           | Max Marks CA | Total Marks | Minimum Passing Marks | Credit |
|------|-------------|--------------------------------------------|-------------|---------------------|-----------|---------------|-----------|--------------|-------------|-----------------------|--------|
|      |             |                                            |             | Theory              | Practical | Theory        | Practical |              |             |                       |        |
| 1    | OE          | Event Management                           | BS/EM/001   | 30                  | 0         |               | 50        | 50           | 100         | 50                    | 2      |
| 2    | OE          | Emotional Intelligence                     | PS/EI/001   | 28                  | 2         | 40            |           | 60           | 100         | 40                    | 2      |
| 3    | OE          | Environmental Economics and Sustainability | EC/EES/001  | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 4    | OE          | Basics of French Language                  | LG/FL/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 5    | OE          | Introduction to FinTech                    | FA/FT/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 6    | OE          | Generative AI                              | DS/GA/001   | 30                  | 0         |               | 50        | 50           | 100         | 50                    | 2      |
| 7    | OE          | Intellectual Property Rights               | BS/IP/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |

**B.Sc. Data Science Semester IV**

| Sr. No | Course Type | Course Name                                 | Course Code            | Instructional Hours |           | Max Marks ESE    |           | Max Marks CA     | Total Marks | Minimum Passing Marks | Credits |
|--------|-------------|---------------------------------------------|------------------------|---------------------|-----------|------------------|-----------|------------------|-------------|-----------------------|---------|
|        |             |                                             |                        | Theory              | Practical | Theory           | Practical |                  |             |                       |         |
| 1      | DSC         | Data Mining                                 | IT/DM/001 A            | 45                  | 0         | 50               | -         | 50               | 100         | 40                    | 3       |
| 2      | DSC         | Research Methods                            | BS/RMD/001             | 30                  | 0         | 40               | -         | 60               | 100         | 40                    | 2       |
| 3      | DSC         | Machine Learning                            | DS/ML/002 A            | 30                  | 30        |                  | 50        | 50               | 100         | 50                    | 3       |
| 4      | DSC         | Big Data                                    | IT/BD/001              | 42                  | 0         | 40               | -         | 60               | 100         | 40                    | 3       |
| 5      | SEC         | Web Programming Lab/Software Testing        | IT/WP/001 or IT/ST/001 | 0/30*               | 30/0*     | 0/40*            | 30/-*     | 70/60*           | 100         | 50/40*                | 2       |
| 6      | CEP/FP      | Community Engagement Project/ Field Project | SS/IAS/002             |                     |           |                  | 100       |                  | 100         | 50                    | 3       |
| 7      | OE          | Select from OE Basket (Any ONE)             | Select from Basket     | As per OE Basket    |           | As per OE Basket |           | As per OE Basket | 100         | 40                    | 2       |
| 8      | CC          | Co-curricular Course                        | CC4                    |                     |           |                  |           |                  |             |                       | 2       |
| Total  |             |                                             |                        |                     |           |                  |           |                  | 700         | 310/300               | 20      |

\*for software Testing Course

**OPEN ELECTIVE for SEMESTER IV**

| S.No | Course Type | Open Electives Basket              | Course Code | Instructional Hours |           | Max Marks ESE |           | Max Marks CA | Total Marks | Minimum Passing Marks | Credit |
|------|-------------|------------------------------------|-------------|---------------------|-----------|---------------|-----------|--------------|-------------|-----------------------|--------|
|      |             |                                    |             | Theory              | Practical | Theory        | Practical |              |             |                       |        |
| 1    | OE          | Performance Marketing              | BS/PEM/001  | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 2    | OE          | Gender Dynamics and Gender Studies | PS/GD/001   | 26                  | 4         | 40            |           | 60           | 100         | 40                    | 2      |
| 3    | OE          | Geopolitics                        | EC/GP/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 4    | OE          | Basics of German Language          | LG/GL/001   | 30                  | 0         | 40            |           | 60           | 100         | 40                    | 2      |
| 5    | OE          | Mutual Fund Investment             | FA/MF/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |
| 6    | OE          | AI for Business                    | DS/AB/001   | 30                  | 0         | 50            |           | 50           | 100         | 40                    | 2      |

A student can exit the program after successful completion of 1st, 2nd, 3rd and 4th semesters having earned requisite number of credits as mentioned in the scheme of examination and additional '4 credits from the list of courses mentioned in NSQF/ Centre of Life-Long Learning (RTMNU) /Internship/MOOCs. Such a student shall be eligible for the award of 'Diploma in Data Science' by the University.

OR

A student can continue the program in 3rd year.

### B.Sc. Data Science Semester V

The specialisation chosen by the student (AI & Prompt Engineering/ Cybersecurity/ Cloud computing) at the commencement of 3rd year, shall be considered as his/her Major for the award of Bachelor Degree.

| Sr. No       | Course Type | Course Name                                               | Course Code                         | Instructional Hours   |                     | Max Marks ESE |           | Max Marks CA           | Total Marks | Minimum Passing Marks | Credits |
|--------------|-------------|-----------------------------------------------------------|-------------------------------------|-----------------------|---------------------|---------------|-----------|------------------------|-------------|-----------------------|---------|
|              |             |                                                           |                                     | Theory                | Practical           | Theory        | Practical |                        |             |                       |         |
| 1            | DSC         | Web Development using React (Theory + Lab)                | IT/WR/003                           | 45                    | 30                  | 40            | -         | 60                     | 100         | 40                    | 4       |
| 2            | DSC         | Data Visualization                                        | DS/DV/002                           | 15                    | 30                  |               | 50        | 50                     | 100         | 50                    | 2       |
| 3            | DSC         | Deep Learning (Theory + Lab)                              | DS/DL/003 A                         | 45                    | 0                   | 50            |           | 50                     | 100         | 40                    | 3       |
| 4            | DSC         | Reinforcement Learning                                    | DS/RL/003                           | 30                    | 0                   | 50            |           | 50                     | 100         | 40                    | 2       |
| 5            | DSE         | Specialization Course 1 / MOOC in relevant area           | Select from either Basket A, B or C | A- 53<br>B-60<br>C-60 | A- 15<br>B-0<br>C-0 | B-50<br>C-40  | A- 50#    | A- 50#<br>B-50<br>C-60 | 100         | 40/50#                | 4       |
| 6            | OJT         | Internship (Related to data science & data Visualization) |                                     |                       |                     |               | 100       |                        | 100         | 50                    | 4       |
| 7            | CC          | Co-Curricular Courses                                     | CC5                                 |                       |                     |               |           |                        |             |                       | 2       |
| <b>Total</b> |             |                                                           |                                     |                       |                     |               |           |                        | 600         | 260/270               | 21      |

#for Prompt Engineering course(Basket A- course 1)

### B.Sc. Data Science Semester VI

| Sr. No       | Course Type | Course Name                                     | Course Code                         | Instructional Hours   |                    | Max Marks ESE         |           | Max Marks CA          | Total Marks | Minimum Passing Marks | Credits |
|--------------|-------------|-------------------------------------------------|-------------------------------------|-----------------------|--------------------|-----------------------|-----------|-----------------------|-------------|-----------------------|---------|
|              |             |                                                 |                                     | Theory                | Practical          | Theory                | Practical |                       |             |                       |         |
| 1            | DSC         | Data Management using MongoDB                   | DS/MDDB/001                         | 45                    | 45                 |                       | 50-       | 50                    | 100         | 50                    | 4       |
| 2            | DSC         | Digital Marketing Analytics                     | DS/DA/003                           | 15                    | 30                 | 50                    |           | 50                    | 100         | 40                    | 2       |
| 3            | DSC         | Project Management and Deployment               | DS/DP/003                           | 60                    | 0                  | 50                    |           | 50                    | 100         | 40                    | 4       |
| 4            | DSE         | Specialization Course 2 / MOOC in relevant area | Select from either Basket A, B or C | A- 60<br>B-57<br>C-60 | A- 0<br>B-0<br>C-0 | A- 50<br>B-40<br>C-40 |           | A- 50<br>B-60<br>C-60 | 100         | 40                    | 4       |
| 5            | SEC         | Project                                         |                                     |                       |                    |                       | 100       |                       | 100         | 50                    | 4       |
| 6            | CC          | Co-Curricular Course                            | CC6                                 |                       |                    |                       |           |                       |             |                       | 2       |
| <b>Total</b> |             |                                                 |                                     |                       |                    |                       |           |                       | 500         | 220                   | 20      |

| Basket A : Basket of courses for Specialization : AI & Prompt Engineering |             |             |         |          |                       |
|---------------------------------------------------------------------------|-------------|-------------|---------|----------|-----------------------|
| Course Name                                                               | Course Type | Course Code | Credits | Semester | Specialization course |
| Prompt Engineering                                                        | DSE         | DS/PE/002   | 4       | Sem V    | Course 1              |
| Natural Language Processing                                               | DSE         | DS/NL/002   | 4       | Sem VI   | Course 2              |

| Basket B : Basket of courses for Specialization : Cybersecurity |             |             |         |          |                       |
|-----------------------------------------------------------------|-------------|-------------|---------|----------|-----------------------|
| Course Name                                                     | Course Type | Course Code | Credits | Semester | Specialization course |
| Network Security                                                | DSE         | IT/NS/002   | 4       | Sem V    | Course 1              |
| Cybersecurity and Risk Management                               | DSE         | IT/CR/002   | 4       | Sem VI   | Course 2              |

| Basket C : Basket of courses for Specialization : Cloud Computing |             |             |         |          |                       |
|-------------------------------------------------------------------|-------------|-------------|---------|----------|-----------------------|
| Course Name                                                       | Course Type | Course Code | Credits | Semester | Specialization course |
| Cloud Computing                                                   | DSE         | IT/CC/001   | 4       | Sem V    | Course 1              |
| Cloud Security and Data Privacy                                   | DSE         | IT/CSD/002  | 4       | sem VI   | Course 2              |

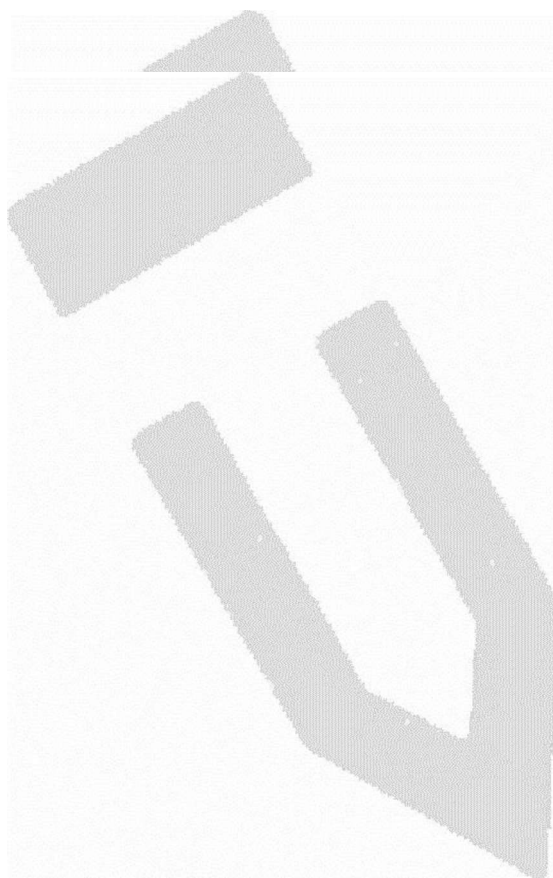
A student can exit the program after successful completion of 1st, 2nd, 3rd, 4th, 5th and 6th semesters having earned the requisite number of credits as mentioned in the scheme of examination. Such a student shall be eligible for the award of 'Bachelor of Science (Data Science)' degree by the University.

Rubrics and detailed parameters for evaluation of Internship/ Research Project are mentioned in Annexure 2/Annexure 3.

**Annexure 2**  
**Internship Evaluation Rubric (Total: 100 Marks)**

| Criteria                                        | Sub-Criteria                                                                                 | Marks | Scale for Assessment                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------|
| 1. Company and Industry Profile (10)            | Clarity, relevance, and understanding of company operations and industry context             | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
| 2. Introduction of the Topic (15)               | Relevance of topic to specialization                                                         | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                 | Conceptual background and rationale for topic selection                                      | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                 | Clarity and scope definition of the topic                                                    | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 3. Objectives of the Study (10)                 | Specific, measurable, and relevant objectives                                                | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                 | Alignment of objectives with internship activities                                           | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 4. Data Collection and Analysis (Optional) (15) | Appropriateness of data and sources used                                                     | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                 | Application of analytical tools or methods                                                   | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                 | Quality of findings and interpretation                                                       | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 5. Functional Learnings (20)                    | Understanding and application of domain knowledge (marketing, finance, HR, operations, etc.) | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
|                                                 | Linking academic concepts with practical exposure                                            | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |

| Criteria                           | Sub-Criteria                                         | Marks | Scale for Assessment                                                 |
|------------------------------------|------------------------------------------------------|-------|----------------------------------------------------------------------|
| 6. Behavioural Learnings (20)      | Professional attitude, ethics, and discipline        | 7     | Excellent (7), Good (6), Average (5), Poor (4), Unsatisfactory (3–0) |
|                                    | Communication and interpersonal skills               | 7     | Excellent (7), Good (6), Average (5), Poor (4), Unsatisfactory (3–0) |
|                                    | Adaptability, teamwork, and problem-solving approach | 6     | Excellent (6), Good (5), Average (4), Poor (3), Unsatisfactory (2–0) |
| 7. Presentation and Viva Voce (10) | Structure and coherence of report presentation       | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)   |
|                                    | Clarity of understanding, confidence, and responses  | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)   |
| Total                              |                                                      | 100   |                                                                      |



**Annexure 3**  
**Research Project Evaluation Rubric (Total: 100 Marks)**

| Parameter                                           | Sub-Criteria                                                                 | Marks | Scale for Assessment                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------|
| 1. Research Design and Planning (20 Marks)          | Selection and relevance of research topic to specialization                  | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                     | Clarity of research problem, objectives, and hypotheses                      | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                     | Review of literature and theoretical framework                               | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
|                                                     | Research design and planning (sampling method, timeline, limitations)        | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 2. Data Collection and Analysis (25 Marks)          | Relevance and adequacy of data collected (primary/secondary)                 | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
|                                                     | Application of analytical tools and techniques (quantitative or qualitative) | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
|                                                     | Validity, interpretation, and accuracy of analysis                           | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 3. Findings, Discussion, and Conclusions (25 Marks) | Clarity and relevance of findings to research objectives                     | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
|                                                     | Critical discussion, interpretation, and managerial implications             | 10    | Excellent (10–9), Good (8–7), Average (6–5), Poor (4–3), Unsatisfactory (2–0) |
|                                                     | Practical recommendations, limitations, and scope for future research        | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |
| 4. Report Presentation and                          | Logical organization and structure of the report                             | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1)            |

| Parameter                                | Sub-Criteria                                                             | Marks | Scale for Assessment                                               |
|------------------------------------------|--------------------------------------------------------------------------|-------|--------------------------------------------------------------------|
| Documentation (15 Marks)                 |                                                                          |       |                                                                    |
|                                          | Writing clarity, formatting, referencing, and tabulation quality         | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1) |
|                                          | Print quality, binding, and visual presentation (charts, tables, graphs) | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1) |
| 5. Presentation and Viva Voce (15 Marks) | Clarity of presentation and communication skills                         | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1) |
|                                          | Depth of understanding and command over research topic                   | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1) |
|                                          | Ability to answer questions confidently and logically                    | 5     | Excellent (5), Good (4), Average (3), Poor (2), Unsatisfactory (1) |
| Total                                    |                                                                          | 100   |                                                                    |