



Prahladrai Dalmia Lions College Commerce & Economics
(Government Aided & Affiliated to University of Mumbai & AICTE, New Delhi)
NAAC Re-accredited with 'A' Grade (III Cycle) ISO 21001:2018 Certified
University of Mumbai Recognised Research Centre in Accountancy, Commerce &
Business Economics
A Government Approved Hindi Linguistic Minority Institute

ATKT SEMESTE III

Internal Examination October, 2026.

BSc.(Computer Science), NEP BATCH DATE - 15/10/2026

INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS:

1. **Date of Submission of the Projects- 24th October, 2026 (Timings 9:30 am)**
2. **Reporting time for students: at least 10 minutes before the mentioned time. Venue: 2nd floor staff room). Please meet Ms. Prachi Sanghvi.**
3. Students have to be present in person for the submission.
4. Submission of projects to be done on proper A4 size paper, handwritten by the candidate himself only. The Front page should contain details of Roll no, Name of the student, Semester, Subject.
5. **Print out of the questions uploaded should be attached along with the project. Students should also enclose a photocopy of the ATKT fee paid receipt along with each of his projects.**
6. On the date of submission there will be a viva voce on the given questions/topics.
7. If the student fails to present himself on the given date and time he will be marked ABSENT for the said subject.
8. **Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.**
9. **Note: If students have any discrepancies in the below mentioned questions or any queries related to same need to meet Dr. Sneha Hathi on or before 03rd October, 2026 (by 11 am).**

Dr. Sneha Hathi

BSc. CS Co-Ordinator

CA Durgesh Kenkre

Exam Convenor

Ms. Subhashini Naikar

Vice Principal, SFC

Prof. (Dr.) D N. Ganjewar

Principal

DI/N-STD/GEN/00

INTERNAL ATKT PROJECT TOPIC QUESTIONS

STUDENT TO ANSWER ALL THE QUESTIONS

SYBSc.CS SEMESTER III ATKT INTERNAL PROJECT QUESTIONS

NOTE: Students shall attempt any five questions out of the same as per their subjects allocated and in which they have ATKT only in internals

Subject - Computer Science Practical 3

1. To write and execute a program to traverse a singly linked list and display its elements.
2. Understand shared memory concepts in inter-process communication.
3. Compare and contrast shared memory vs. message-passing approaches.
4. Create and manipulate structures to model ADTs like Student, Book, or Employee..
5. Implement push, pop, peek using arrays or linked lists.

Subject - Scala with Data Science

1. Write a simple Scala program that prints a welcome message for data scientists..
2. Generate a random dataset of 10 numbers and calculate its variance and standard deviation.
3. Handle missing values in a dataset. Replace missing values with the column mean.
4. Plot a line graph for a dataset showing a trend over time.
5. Set up Apache Spark locally and count the frequency of words in a text file.

Subject - Java Programming

1. Write a Java Servlet application to accept user registration details, process form submissions, and demonstrate session tracking using cookies, URL rewriting, and HttpSession.
2. Write a java program to implement use of static method.
3. Write a Java program to create multiple threads, demonstrate their life cycle, and implement synchronization using wait(), notify(), and notifyAll().
4. Write a Java program to create, parse, and manipulate JSON data containing student or employee records using a suitable JSON library.
5. Write a Java web application using Servlets, JDBC, and the Filter API to authenticate users, manage database records, and display appropriate responses using RequestDispatcher and response redirection.

Subject - Python for Data Science

1. Write a python code to calculate area of Triangle.
2. Write a python code to sort the nested tuple using sorted() function.
3. Write a python code to create a filter array that will return maximum values from an array.
4. Write a python code to create pandas series from dictionaries.
5. Write a python code to compare two dates.
6. Write a python code to copy or clone list.

Subject - Co-curricular activities

1. Identify and describe various fine art disciplines used in creative expression.
2. Demonstrate the step-by-step procedural technique and design principles involved in creating traditional Rangoli patterns.
3. Analyze the artistic elements, cultural symbolism, and aesthetic principles of traditional Mehendi designing.
4. Analyze why soft skills and language proficiency are critical elements for effective performance in public speaking and elocution.
5. Apply key narrative structural elements (introduction, plot, characterization, setting) to develop a short story

Subject – Hindi

1. हिंदी भाषा का सामान्य परिचय दीजिए तथा राजभाषा हिंदी के संवैधानिक महत्त्व को स्पष्ट कीजिए।
2. वाक्य की परिभाषा दीजिए तथा वर्तनी की शुद्धता के महत्त्व और वर्तनी संबंधी सावधानियों को स्पष्ट कीजिए।
3. पत्र-लेखन का अर्थ स्पष्ट कीजिए तथा बधाई, निमंत्रण, सुझाव, शिकायत, आभार, आवेदन अथवा RTI से संबंधित पत्र का प्रारूप उदाहरण सहित लिखिए।
4. वर्णमाला से आप क्या समझते हैं? स्वरों एवं व्यंजनों का परिचय उदाहरण सहित दीजिए।
5. शब्द-भेद की सामान्य अवधारणा स्पष्ट कीजिए तथा संज्ञा के विभिन्न प्रकारों को उदाहरण सहित समझाइए।

Important Note –

Students who have got ATKT in INTERNAL EXAMINATION OF Practical Subjects only need to submit their whole Journal Book