



**PRAHLADRAI DALMIA LIONS COLLEGE OF COMMERCE & ECONOMICS**  
**ISO 9001: 2015 Certified**

**NOTICE**

**25<sup>th</sup> February , 2025**

**ATKT Internal and Practical Examination**  
**B.Sc.I.T. ( SEMESTER- III )**

**INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS**

1. Date of Submission of the Assignments – **04<sup>th</sup> March, 2026**
2. Timings 10:00 AM to 11: 30 AM. Reporting time for students: at least 10 minutes before the mentioned time. Venue: Computer Lab - 1st Floor.
3. Students have to be present in person for the submission.
4. Submission of assignments 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 assignment.  
Students should 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.

**NOTE** - Student who has paid ATKT fees for internal components but has not been allotted questions or has any query is requested to contact Dr. Rupali Mishra on or before, **28th, February 2026** by mailing on [bscit@dalmialionscollege.ac.in](mailto:bscit@dalmialionscollege.ac.in)

**Dr. Rupali Mishra**

**CA. Durgesh Kenkre**

**Ms. Subhashini Naikar**

**Prof. (Dr.) D. N. Ganjewar**

**(Coordinator - BSc.IT)**

**Exam Convener**

**Vice- Principal, SFC**

**(Principal)**

DI/N-STD/GEN/00

<b>PYTHON WITH DATA SCIENCE (EXTERNAL)</b> <b>Note - Student needs to perform any of the given practical during the submission)</b>	<b>267 - AYAAN MISTER</b> <ol style="list-style-type: none"> <li>1. Role of a Data Science. Explain.</li> <li>2. Write a Python program to find: Mean, Median, Standard deviation of a NumPy array.</li> <li>3. Write a Python program to create a Pandas DataFrame using a dictionary containing student data (Name, Marks, Age).</li> <li>4. Write a Python program to calculate the factorial of a number using a loop.</li> <li>5. Need of a Data Science in today's world.</li> </ol>
	<b>259 - MD YAHYA NASRULLAH KHAN</b> <ol style="list-style-type: none"> <li>1. Write a Python program to create a NumPy array of numbers from 1 to 10 and display it.</li> <li>2. Write a Python program to plot a line graph using Matplotlib.</li> <li>3. Applications of Data Science.</li> <li>4. Write a Python program to find the largest number among three numbers.</li> <li>5. Write a Python program to create a NumPy array of numbers from 1 to 10 and display it.</li> </ol>
<b>PYTHON WITH SCALA (EXTERNAL)</b> <b>Note - Student needs to perform any of the given practical during the submission)</b>	<b>267 - AYAAN MISTER</b> <ol style="list-style-type: none"> <li>1. Write a Python program to create a dictionary of student names and marks and display it.</li> <li>2. Write a Python program to read data from a file and display the contents.</li> <li>3. Write a Scala program to create a list and calculate the sum of elements.</li> <li>4. Write programs in both Python and Scala to print numbers from 1 to 10.</li> <li>5. Discuss the applications of scala.</li> </ol>
	<b>259 - MD YAHYA NASRULLAH KHAN</b> <ol style="list-style-type: none"> <li>1. Write programs in both Python and Scala to calculate factorial of a number.</li> <li>2. Explain the uses and features of Scala.</li> <li>3. Write a PySpark program to create an RDD and display elements.</li> <li>4. Write a Scala program to create a collection (List or Array) and display its elements.</li> <li>5. Write a Python program using Pandas to create a DataFrame of student data.</li> </ol>

<p style="text-align: center;"><b>HINDI</b></p>	<p><b>267 - AYAAN MISTER</b></p> <p>निम्नलिखित विषय पर लगभग 500–800 शब्दों में निबंध लिखिए:</p> <ol style="list-style-type: none"> <li>1. डिजिटल युग में हिंदी भाषा का महत्व</li> <li>2. शिक्षा का महत्व और उसका जीवन में योगदान</li> <li>3. पर्यावरण संरक्षण की आवश्यकता</li> <li>4. युवा पीढ़ी और सोशल मीडिया</li> <li>5. आत्मनिर्भर भारत में युवाओं की भूमिका</li> </ol>
<p><b>Major Practical - 3</b> (Python Practical and Data Structures Practical)</p> <p><b>Note - Student needs to perform any of the given practical during the submission)</b></p>	<p><b>267 - AYAAN MISTER</b></p> <p><b>A. Python Practical -</b></p> <ol style="list-style-type: none"> <li>1. Discuss the salient features of Python.</li> <li>2. Write a Python program to sort a list in ascending and descending order.</li> <li>3. Difference between sets and tuples.</li> <li>4. Explain ternary operator in detail.</li> <li>5. Write a Python program to print the Fibonacci series up to n terms.</li> </ol> <p><b>B. Data Structures Practical -</b></p> <ol style="list-style-type: none"> <li>1. Write a short note on Asymptotic notation.</li> <li>2. Explain Bubble sort techniques with the following example - 20,1,5,8,0,0,4,7,10.</li> <li>3. Explain Stack operations in detail.</li> <li>4. Difference between Array and Queues.</li> <li>5. WAP in python to display the singly linked list.</li> </ol>