



PRAHLADRAI DALMIA LIONS COLLEGE OF COMMERCE & ECONOMICS

ISO 9001: 2015 Certified

NOTICE

Date: 11th Sept, 2023





B.Sc. (Information Technology)

ATKT Internal Examination Semester IV September, 2023

INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS/PRACTICALS

1. Date of Submission of the Projects- 16th September, 2023.
2. Timings 11:00 am to 12:00 pm. Reporting time for students: at least 10 minutes before the mentioned time. Venue: Second floor staffroom.
3. Students have to be present in person for the submission.
4. Internal project topics are also uploaded on the college website.
5. Submission of projects or 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.
6. Print out of the questions uploaded should be attached along with the project.
7. Students should also enclose a photocopy of the ATKT fee paid receipt along with each of his projects.
8. On the date of submission there will be a viva voce on the given questions/topics.
9. If the student fails to present himself on the given date and time he will be marked ABSENT for the said subject.
10. Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.

NOTE - Students who has paid ATKT fees for internal / practical but has not been allotted questions is requested to contact Ms. Rupali Mishra on or before 12th September, 2023 by mailing on bscit@dalmialionscollege.ac.in

			
<u>Ms. Rupali Mishra</u>	<u>CA. Durgesh Kenkre</u>	<u>Ms. Subhashini Naikar</u>	<u>Prof. (Dr.) D. N. Ganjewar</u>
<u>(Coordinator)</u>	<u>Exam Convener</u>	<u>Vice- Principal, SFC</u>	<u>(Principal)</u>

DI/R-IPS/EXAM/00



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Semester IV

Subject: Software Engineering (Practical)

Roll No	Name of the Student : CHAVAN HARSHAL VASANT
203	<ol style="list-style-type: none">1. Explain a data flow diagram with an example. (Write Definition, symbols used and 1 example)2. Explain ATM machine example with respect to State transition machine (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : SHAIKH SOHAIL NASIM
233	<ol style="list-style-type: none">1. Explain use-case model with an example (Write Definition, symbols used and 1 example)2. Explain Activity Diagram with an example. (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : YADAV NIRAJ RAMNIVAS
246	<ol style="list-style-type: none">1. Explain sequence diagrams with an example. (Write Definition, symbols used and 1 example)2. Explain Class Diagram with an example. (Write Definition, symbols used and 1 example)

Subject: Software Engineering (Internal)

Roll No	Name of the Student : RAI SIMRAN VINOD
261	<ol style="list-style-type: none">1. What are the steps involved in requirements engineering processes2. Explain in detail the risk management.3. Explain Unified Modelling Language4. Explain agile methods with an example.5. Write short note on black box testing



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Subject: Computer Graphics & Application (Practical)

Roll No	Name of the Student : ANSARI MAHFOOZ SHAMIM
254	<ol style="list-style-type: none">1. To write a C program to draw a line using DDA Algorithm2. To write a C program to draw a line using Bresanham's Algorithm.

Subject: Computer Graphics & Application (Internal)

Roll No	Name of the Student : GAMARE YASH UTTAM
205	<ol style="list-style-type: none">1. Explain the working of CRT with neat and labelled diagram2. Write a note on 2-D Transformations3. Explain types of projections4. Write an algorithm for back face removal.5. List and explain principles of Animation.

Roll No	Name of the Student : PATEL MOHAMMED SAFWAN
225	<ol style="list-style-type: none">1. List and explain types of output devices.2. Write a note on 3-D Scaling.3. What is colour space? List and explain various colour spaces.4. Write Z-buffer Algorithm.5. Write a note on Histogram Equalization.

Roll No	Name of the Student : SHAIKH SOHAIL NASIM
233	<ol style="list-style-type: none">1. Explain the working of the DDA algorithm.2. What is clipping? List and explain types of clipping.3. Write a note on radiometry.4. Explain the Bezier curve.5. What is Image Compression?

Roll No	Name of the Student : TRIVEDI HEET ASHOK
240	<ol style="list-style-type: none">1. Explain the working of Midpoint Circle algorithm2. List various applications for Computer Graphics.3. Write a note on Reflection4. Explain B-spline curve.5. List and explain various digital image formats.



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Roll No	Name of the Student : SHARMA CHIRAG SUNIL
251	<ol style="list-style-type: none">1. Explain the working of Midpoint Ellipse algorithm2. Explain 2-D Rotation.3. What is computer graphics? List and explain various software used for computer graphics4. Write a note on photometry.5. List all the properties of Bezier Curve.

Roll No	Name of the Student : RAI SIMRAN VINOD
261	<ol style="list-style-type: none">1. Write a note on Character Animation.2. Explain Area Subdivision Method.3. Explain various Colour Spaces.4. Write Cohen & Sutherland line Clipping Algorithm.5. List and explain various graphic devices.

Roll No	Name of the Student : PANDEY JAY HARENDRA
269	<ol style="list-style-type: none">1. Write a note on Color CRT with a neat and labeled diagram.2. Explain Hidden surface removal.3. List and explain all 2-D transformations.4. Explain polygon Clipping.5. List and explain various graphic devices.

Subject: Core Java (Practical)

Roll No	Name of the Student : GUPTA SHUBHAM SATENDRA
207	<ol style="list-style-type: none">1. Write a Java program that takes a number as input and prints its multiplication table upto 10.2. Find the smallest and largest element from the array



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Roll No	Name of the Student : SHAIKH SOHAIL NASIM
233	<ol style="list-style-type: none">1. Designed a class that demonstrates the use of constructor and destructor2. Write a java program to implement single level inheritance

Roll No	Name of the Student : YADAV KETAN SAMARJEET
245	<ol style="list-style-type: none">1. Write a java program to implement polymorphism2. Write a java program to accept string from the user and check for string palindrome.

Roll No	Name of the Student : YADAV PRASHANT INDRAJIT
247	<ol style="list-style-type: none">3. Write a java program to implement method overriding4. Write a java program to implement multiple inheritance.

Roll No	Name of the Student : SHARMA CHIRAG SUNIL
251	<ol style="list-style-type: none">1. Write a java program to add two matrices and print the resultant matrix.2. Write a java program to implement multithreading.

Roll No	Name of the Student : RAI SIMRAN VINOD
261	<ol style="list-style-type: none">1. Write a Java program to print the area and perimeter of a circle.2. Write a Java program to add two binary numbers.

Roll No	Name of the Student : MALLAH ANKUSH RAMANAND
215	<ol style="list-style-type: none">1. Write a Java program to convert a decimal number to binary number and vice versa2. Write a Java program to reverse a string.



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Subject: Core Java (Internal)

Roll No	Name of the Student : GAMARE YASH UTTAM
205	<ol style="list-style-type: none"> 1. List and explain features of Java 2. Explain the syntax of switch case statement with an example. 3. Write a note on exception handling. 4. Write a note on Event handling 5. Explain AWT.

Roll No	Name of the Student : RAI SIMRAN VINOD
261	<ol style="list-style-type: none"> 1. Explain file handling in Java. 2. What is inheritance? List and explain types of inheritance. 3. Explain decision making in Java. 4. Write a note on Multithreading. 5. Write a note on the constructor. Explain with an example.

Subject: Computer Oriented Statistical Techniques (Internal)

Roll No	Name of the Student : GAMARE YASH UTTAM
205	<ol style="list-style-type: none"> 1. On a final examination in statistics, the mean grade of a group of 150 students was 78 and the standard deviation was 8.0. In algebra, however, the mean final grade of the group was 73 and the standard deviation was 7.6. In which subject was there the greater (i) absolute dispersion and (ii) relative dispersion? 2. For a group of 200 candidates, the mean and standard deviation of scores were found to be 40 and 15 respectively. Later on, it was discovered that the scores 43 and 35 were misread as 34 and 53 respectively. Find the corrected mean and standard deviation corresponding to the corrected figures. 3. Two variables, X and Y, assume the values $X_1 = 2, X_2 = -5, X_3 = 4, X_4 = -8$ and $Y_1 = -3, Y_2 = -8, Y_3 = 10, Y_4 = 6$, respectively. Calculate: <i>i.</i> $\sum XY$, <i>ii.</i> $\sum X \sum Y$, <i>iii.</i> $\sum XY^2$, <i>iv.</i> $\sum X^2$, <i>v.</i> $\sum (X-Y)(X+Y)$ 4. During one year the ratio of milk prices per quart to bread prices per loaf was 3.00, whereas during the next year the ratio was 2.00. <ol style="list-style-type: none"> i. Find the arithmetic mean of these ratios for the 2-year period. ii. Find the arithmetic mean of the ratios of bread prices to milk prices for the 2- year period. iii. Discuss the advisability of using the arithmetic mean for averaging ratios. iv. Discuss the suitability of the geometric mean for averaging ratios.



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Roll No	Name of the Student : RAI SIMRAN VINOD																																				
	<p>1 Find the value of D_3, D_5, D_{75} for the following data.</p> <table border="1"><thead><tr><th>Class Interval</th><th>0 – 50</th><th>50 – 100</th><th>100 – 150</th><th>150 – 200</th><th>200 – 250</th></tr></thead><tbody><tr><th>Frequency</th><td>10</td><td>20</td><td>30</td><td>20</td><td>20</td></tr></tbody></table> <p>2 Find Mean Deviation about arithmetic mean for the following Data. 11, 15, 19, 27, 28, 23, 13, 17, 21, 25</p> <p>3 Find the value of P_{25}, P_{50}, P_{75} for the following data.</p> <table border="1"><thead><tr><th>Class Interval</th><th>0 – 25</th><th>25 – 50</th><th>50 – 75</th><th>75 – 100</th><th>100 – 125</th></tr></thead><tbody><tr><th>Frequency</th><td>15</td><td>25</td><td>30</td><td>25</td><td>15</td></tr></tbody></table> <p>4 Find the Mode for the following data.</p> <table border="1"><thead><tr><th>Class Interval</th><th>10 – 50</th><th>50 – 90</th><th>90 – 130</th><th>130 – 170</th><th>170 – 210</th></tr></thead><tbody><tr><th>Frequency</th><td>13</td><td>20</td><td>27</td><td>20</td><td>13</td></tr></tbody></table>	Class Interval	0 – 50	50 – 100	100 – 150	150 – 200	200 – 250	Frequency	10	20	30	20	20	Class Interval	0 – 25	25 – 50	50 – 75	75 – 100	100 – 125	Frequency	15	25	30	25	15	Class Interval	10 – 50	50 – 90	90 – 130	130 – 170	170 – 210	Frequency	13	20	27	20	13
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Subject: Introduction to Embedded Systems (Internal)

Roll No	Name of the Student : GAMARE YASH UTTAM
205	<ol style="list-style-type: none">1. List and explain types of Embedded System.2. Explain the working microprocessor.3. Explain 8085Pin diagram.4. Explain Real Time Operating system.5. List and explain various addressing modes.

Roll No	Name of the Student : RAI SIMRAN VINOD
261	<ol style="list-style-type: none">1. Write a note on 8051 Microcontroller Hardware.2. Write a note on Flash memory.3. Explain Real time scheduling.4. Explain I/O Programming with 8051 with example.5. Write a note on COTS.

Subject: Introduction to Embedded Systems (Practical)

Roll No	Name of the Student : SHAH SWATI RAVINDRA
231	<ol style="list-style-type: none">1. Configure timer control register of 8051 and develop a program to generate given time delay2. To interface 8 LEDs at I/O port and create different patterns.