



Prahladrai Dalmia Lions College of 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 Recognized Research Centre in Accountancy,
Commerce & Business Economics

A Government Approved Hindu Linguistic Minority Institute

52 Years of Sterling Performance in Education

Date: 7th August, 2026

NOTICE

BSc. (COMPUTER SCIENCE)

FY / SY / TY BSC.CS (Semester I / III / V)

CIA Internal Project Assignment Submission September, 2026

Instructions for the students for internals projects submission:

1. Date & Time of Assignment Submission - **As per the time table given below.**
2. Students have to be present in person for the submission.
3. Internal project topics are also uploaded on the college website.
4. Submission of projects or assignments to be done on proper A4 size paper, handwritten by the candidate himself only.
5. The Front page should contain details of Roll no, Name of the student, Semester, Subject along with certificate provided by the class mentors.
6. If the student fails to present himself on the given date and time he will be marked **ABSENT** for the said subject.
7. Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.

Ms. Sneha Hathi
Co ordinator - BSc Computer
Science

Ms. Subhashini Naikar
(Vice-Principal, SFC)

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

DI/R-IPS/EXAM/00

Schedule of VIVA VOCE

FYBSc. CS

Sr. No	Date	Day	Time	Name of Course	Name of Faculty
1.	31/08/2026	Monday	11:30 to 1:30 pm 2.00 to 3.00 pm	1. Indian Constitution 2. Indian Knowledge System	Dr. Malvika Khajuria Ms. Mohini Nadkarni
2.	1/09/2026	Tuesday	9.20 to 11.20 am	1. Entrepreneurship Management	Dr. Sneha Hathi
3.	2/09/2026	Wednesday	11.30 to 1.30 pm	1. Environmental Management & Sustainable Development -I	Ms. Neeti Joshi
4.	3/09/2026	Thursday	11.30 to 1.30 pm	1. Digital Systems & Architecture	Ms. Prachi Sanghvi
5.	4/09/2026	Friday	12.30 to 1.30 pm	1. Communication Skills in English I	Ms. Farzin Dalal
6.	5/09/2026	Saturday	2.00 to 4.00 pm	1. Fundamentals of Database Systems	Ms. Niyati Kalyanpur

Schedule of VIVA VOCE

SYBSc. CS

Sr. No	Date	Day	Time	Name of Course	Name of Faculty
1.	31/08/2026	Monday	7:00 to 9:00 am 9.20 to 11.20 am	1. Statistical Methods -I 2. Financial-Literacy	Mr. Aditya M Dr. Sneha Hathi
3.	2/09/2026	Wednesday	9.20 to 11.20 am 11.30 to 1.30 pm	1. Hindi 2. Theory of Computation	Ms. Tejasvi Shiroya Mr. Sujal Shah
4.	3/09/2026	Thursday	9.20 to 10.20 am	1. Data Structures	Ms. Prachi Sanghvi
5.	4/09/2026	Friday	9.20 to 10.20 am	1. Principles of Operating Systems	Ms. Sonia Pelagade

Schedule of VIVA VOCE

TYBSc. CS

Sr. No	Date	Day	Time	Name of Course	Name of Faculty
1.	1/09/2026	Tuesday	9.20 to 10.20 am 10.20 to 11.20 am 11.30 to 12.30 pm	1. Software Testing & Quality Assurance 2. Artificial Intelligence 3. Cyber & Information Security	Ms. Prachi Sanghvi Ms. Sonia Pelagade Mr. Prathamesh Bhosle
2.	2/09/2026	Wednesday	8:00 to 9:00 am	1. IKS in Computational Systems	Mr. Sujal Shah



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Subject: **Fundamentals of Database Systems**

FYBSc. CS - Semester I

Assignment:

1. Explain the Three-Schema Architecture in a Database Management System
2. A university database needs to model the relationship between Departments, Professors, and Courses based on these rules:
 - A department can employ multiple professors, but a professor belongs to exactly one department.
 - Professors teach courses. A course can be taught by only one professor, but a professor can teach multiple courses.

Represent this scenario as an Entity-Relationship (ER) model. Explicitly specify the core entities, their attributes, the relationship sets, the key constraints (cardinality ratios), and any participation constraints if every course must have a professor assigned to it.

3. Create a table named Products where Prod_ID is an integer Primary Key, Prod_Name is a varchar up to 100 characters that cannot be null, Price is a decimal value that must be greater than zero, and Stock_Status is a character field defaulting to 'Available'. Alter the Products table to add a new column named Category (varchar up to 50 characters).
Permanently wipe all record rows from the Products table while leaving the structural definition intact.
4. Given an existing database table Employees containing columns Emp_ID, First_Name, Last_Name, Department, Salary, and Hire_Date, write single, well-formed SQL Data Manipulation Language (DML) queries to:
 - Return a list of all distinct departments.
 - Retrieve the names and salaries of all employees working in the 'Sales', 'Marketing', or 'HR' departments using a set membership clause.
 - Fetch the full details of all employees earning a salary between \$50,000 and \$85,000 inclusive.
 - Apply a 10% salary increase to all employees currently belonging to the 'IT' department.

5. Explain the various data types in SQL.

Subject: Entrepreneurship Management

FYBSc. CS - Semester I ASSIGNMENT

ASSIGNMENT 1

Answer the following (any 5)

1. Explain the various types of Entrepreneurs
2. Write a note on Women Entrepreneurs and its problems and its policies to be implemented give a real based example of any 1 Women Entrepreneurs (Case Study)
3. Explain the SWOT analysis of any one company (Dominoz, Tata Motors, Zomato, Amul)
4. Explain the advantages and disadvantages of Outsourcing and Franchise along with 1 case study
5. Short note on SMEs
6. What is diversification and its types. Explain it with Real world Example
7. Explain the Components of an ideal business plan
8. Explain any 5 Entrepreneurship Training and Development centers in India.

ASSIGNMENT 2

CASE STUDY 1: FLIPKART

Flipkart is one of India's leading e-commerce companies, founded in 2007 by Sachin Bansal and Binny Bansal, both IIT Delhi graduates and ex-Amazon employees. It started as an online bookstore, operating from a small apartment in Bengaluru, where the founders personally delivered books. To build customer trust, Flipkart introduced Cash-on-Delivery (COD) in 2010, which became a game-changer for Indian e-commerce.

Over time, Flipkart expanded into electronics, fashion, home appliances, and groceries, shifting from an inventory-led model to a marketplace model where sellers could list products. It strengthened its logistics through Ekart, ensuring fast deliveries across India. Flipkart's focus on customer satisfaction through easy returns, discounts, and 24/7 support helped it gain a strong foothold in the market.

Innovation has been key to Flipkart's growth. Apart from COD, it launched Flipkart Plus (a loyalty program), in-house brands like MarQ and SmartBuy, and the Big Billion Day Sale, one of India's biggest online sales events. The company invested heavily in technology, introducing AI-driven recommendations and regional language features for Tier-2 and Tier-3 customers.

Flipkart raised multiple rounds of funding from global investors like SoftBank and Tiger Global. The biggest milestone came in 2018 when Walmart acquired a 77% stake for \$16 billion, one of the largest e-commerce deals globally. Despite challenges like high logistics costs, regulatory issues, and tough competition from Amazon and Reliance JioMart, Flipkart continues to grow.

Today, Flipkart is expanding into grocery delivery, health services, and B2B operations, while also working on sustainability initiatives. With increasing digital adoption in India, Flipkart's journey from a small startup to a billion-dollar company is an inspiring example of innovation, resilience, and entrepreneurial vision.

Answer the following question

1. What are the key success factors of Flipkart?
2. What major challenge did Flipkart face and how did it overcome it?

Subject: Communication Skills in English I

FYBSc. CS - Semester I

ASSIGNMENT

FY B.SC. IT/CS student the internal assessment (20 marks) for the course Communication Skills in English -1 will be evaluated on the following criteria:

1. Letter Writing: - **10 marks**

Types of Letter options (any THREE):

A. Job Application

B. Job Acceptance

C. Resignation Letter

D. Job Offer Letter

E. RTI Application

F. Applications for duplicate documents (I-cards / mark sheet, etc.)

Note: Letter can be of any format- Block, Modified Block or Semi Block.

2. Viva based on submitted assignment: - **5 Marks**

3. Attendance: - **5 Marks**

Submission for FY BSC. CS on: 4/09/2026

Time: During Lecture hours.

Note -

1. Students have to be present in person for the submission in formal attire.

2. Each letter will be written on a separate page. Submission of projects or assignments is to be done on proper A4-size paper.

The first page will be the certificate

The second, third and fourth pages will be the letter

All pages need to be stapled before submission

3. A Google link will be provided to the students on the day to upload their Certificate and Letter.

4. If the student fails to present himself on the given date and time, he will be marked ABSENT for the said subject.

5. Any Submissions after the above-mentioned date and time will not be accepted and entertained under any circumstances.

Subject: **Environmental Management & Sustainable Development -I**

FYBSc. CS - Semester I

ASSIGNMENT

Marks :10

All the Students of FY-BSC.IT and FY-BSC.CS Sem -I, are hereby informed that as a part of your curriculum for Environment Management and Sustainable Development, all the students must submit a hand written assignment consisting of 6 to 8 pages on the given topic . It can consist information in the form of pictures, diagrams, paper cuttings, charts/graphs etc. Viva will be conducted on the same topic. The list of Student's Roll numbers with their respective topics is given below:

Roll no.	Topics
1-5	Classification Of Natural resources
6-10	Sustainable Development
11-15	Disaster management- Types of disasters and its mitigation strategies
16-20	Population growth-Causes and impact on environment, human health and society
21-25	Acid rain- Causes, effects and measures to curb acid rain
26-30	Energy Resources
31-35	Environmental movements in India
36-40	Global environmental issues
41-45	Pollution: Impact of sectorial processes on Environment
46-50	Biogeographic zones of India
51-55	Mega diversity hotspots in India
56-60	Endangered and Endemic species of India

Subject: Digital Systems & Architecture

FYBSc. CS - Semester I

ASSIGNMENT 1

Answers the following

1. Why are NAND and NOR called the universal gates.
2. Explain XOR gate. Draw its symbol and explain its truth table.
3. State and prove De Morgan's first and second theorem.
4. Write the truth table for XOR and XNOR gates.
5. Draw the equivalent circuits for all the gates using NAND gate.
6. Describe the Multiplexer with diagram
7. Explain the concept of **memory hierarchy** with a neat diagram.
8. Explain K -map with diagram of SOP and POS and example.
9. Describe Comparison of Computer Organization & Architecture.
10. Computer Components and Functions.
11. Interconnection Structures. Bus Interconnections.
12. Input / Output: I/O Module Programmed I/O, Interrupt Driven I/O, Direct Memory Access.

Subject: Indian Knowledge System

FYBSc. CS - Semester I - ASSIGNMENT - 15 marks

(10 Marks - Presentation

5 Marks - Viva)

TOPIC SELECT ANY ONE TOPIC FOR PRESENTATION AND VIVA

1. Medicine
2. Alchemy
3. Mathematics
4. Logic
5. Art of Governance
6. Krishi Shastra
7. Astronomy
8. Architecture
9. Natyashastra
10. Vastu Shastra

Instructions for IKS presentation

1. PPT should be clear and visible.
2. **1 student would be making a presentation on 1 topic and would be asked viva on the same.**
3. **Content, examples, images should not be repeated in projects even if the topics chosen are the same.**
4. Detailed content on the chosen topic should be covered.
5. Topic should be selected only from the above mentioned list.
6. Add Scan Code or Link of the Video reference, if any.
7. Minimum 10 and maximum 15 slides are to be prepared.
8. Maintain a formal and respectful tone throughout the presentation.
9. Slides must be as per following Structure:
 - i. The first slide must contain
 - Name of the subject
 - Semester
 - Roll numbers and Name of the student
 - Academic year 2026-2027
 - ii. The second slide must contain the title of the topic.
 - iii. Third must contain the contents covered in the presentation.
 - iv. Rest of the slides must contain relevant and new information from varied sources - Textbooks, Websites, Research papers, Newspapers (paste screenshots / clips of news papers - if possible)
 - v. Presentation must end with following slides-
 - Examples of usage of these Knowledge systems in today's Life
 - Conclusion
 - References - Names of the books with authors / Webpage-urls

Subject: Indian Constitution

FYBSc. CS - Semester I

ASSIGNMENT

Instructions

1. Assignment should be hand written.
2. It should not exceed 8 -10 pages.
3. Attempt any 4 topics

TOPICS

1. The historical background of the Indian Constitution.
2. The role of Dr BR Ambedkar in drafting the Constitution.
3. Comparative study of fundamental rights and directive principles.
4. Federalism in India: Challenges and opportunities.
5. Amendment to the constitution and their implication on Indian society and politics.
6. Judicial review and its rule in upholding the Constitution.
7. Fundamental duties: citizen responsibility in Democracy.
8. Freedom of speech and expression: limits and responsibility.
9. The balance between national security and individual freedoms.
10. Freedom of speech in the age of social media.
11. Right to privacy as a fundamental right.
12. The role of education in promoting fundamental duties.
13. Relevance and implementation of fundamental duties in modern India.
14. Judicial activism and fundamental rights.
15. Constitutional amendments and basic structure doctrine.
16. Comparative analysis of fundamental rights across different democracies.
17. Role of supreme court in upholding the constitutional values: challenges faced by supreme court.
18. Comparing powers of High court and Supreme Court.
19. Election dispute and the role of the High Court.
20. PIL's tool for social change.
21. Case studies on judicial activism.
22. Future challenges for PIL and judicial activism.
23. The role of the High court in state level governance.