

Jaipur National University, Jaipur

School of Distance Education and Learning

Guidelines for Project

1. Project Report (BCA-307)

- **The project proposal should be prepared in consultation with your guide.** The project proposal should clearly state the project objectives and the environment of the proposed project to be undertaken. **The project work should compulsorily include the software development.** The Project carries 100 marks.
- The project should contain complete details in the following form:
 - (i) Title of the Project
 - (ii) Introduction and Objectives of the Project
 - (iii) Project Category (RDBMS/OOPS/Networking/Multimedia/Artificial Intelligence/Expert Systems etc)
 - (iv) Tools/Platform, Hardware and Software Requirement specifications
 - (v) Problem Definition, Requirement Specifications (Detailed functional Requirements and Technical Specifications), Project Planning and Scheduling (Gantt chart/PERT chart)
 - (vi) Scope of the solution
 - (vii) Analysis (DFDs, ER Diagrams/Class Diagrams etc. as per the project requirements)
 - (viii) A complete structure which includes:
 - Number of modules and their description to provide an estimation of the student's effort on the project
 - Data Structures as per the project requirements for all the modules.
 - Process Logic of each module
 - Implementation methodology
 - List of reports that are likely to be generated
 - (ix) Overall network architecture (if required for your project)
 - (x) Implementation of security mechanisms at various levels
 - (xi) Future scope and further enhancement of the project
 - (xii) Bibliography

2. Project completed in all aspects with necessary enclosures should be submitted to the concerned IGC. The IGC will forward those Projects to the Service Providers. The Service Providers will forward a copy of the Project to the Director, SODEL JNU Jaipur with the award sheet after evaluation from a university recognized examiner.
3. A **photocopy of the complete Project** should be retained by the student for future reference.
4. The project is a part of your final Year curriculum. Students are eligible to submit the project proposals after Second year BCA.
5. In case the students require any project trainee letter from the University for doing a project in any organization / software company, they can get a **“Project Trainee letter”**
6. ***Please ensure that at any given point of time, a guide should not provide guidance for more than 5 BCA students of JNU-Jaipur.***
7. **Violation of the project guidelines will lead to the rejection of the project at any stage.**

Project Report

1. **Project Report :**

The project report **should** contain the following:

- i) Certificate of Originality
- ii) A CD consisting of the executable file(s) of the complete project should be attached on the last page of the project report. In no case, it should be sent separately.

2. The **project** may be about 60 to 70 pages (excluding coding). The project documentation details should not be too generic in nature. Appropriate project report documentation should be done, like, **how you have done the analysis, design, coding, use of testing techniques / strategies, etc., in respect of your project.** To be more specific, whatever the theory in respect of these topics is available in the reference books should be avoided as far as possible. **The project documentation should be in respect of your project only.** The project documentation should include the topics given below. Each component shown below carries certain weightage in the project report evaluation.

- Table of Contents / Index with page numbering
- Introduction / Objectives
- System Analysis
 - Project Planning
 - Project Scheduling
 - Software requirement specifications (SRS)
 - Software Engineering Paradigm applied
 - Data model, Control Flow diagrams, state Diagrams/Sequence diagrams
- System Design
 - Modularization details
 - Data integrity and constraints
 - Database design/Procedural Design/Object Oriented Design
 - User Interface Design

- Coding
 - Complete Project Coding
 - Comments and Description
 - Standardization of the coding/Code Efficiency
 - Error handling
 - Parameters calling/passing
 - Validation checks

- Testing
 - Testing techniques and Testing strategies used ***along with the test case designs*** and test report.
 - Debugging and Code improvement

- System Security measures (Implementation of security for the project developed)
 - Database/data security
 - Creation of User profiles and access rights

- Cost Estimation of the Project
- Reports (sample layouts should be placed)
- PERT Chart, Gantt Chart
- Future scope and further enhancement of the Project
- Bibliography
- Appendices (if any)
- Glossary.

Attach a copy of the CD containing the executable file(s) of the complete project.

3. The project report should normally be printed with 1.5 line spacing on A4 paper (one side only). All the pages, tables and figures must be numbered. Tables and figures should contain titles.
4. Throughout the project report, the title of the project should be the same as per the approved synopsis. Signature of the Project Guide in the Certificate of Originality should match with the signature in the Project Proposal proforma also.
5. **Only one copy of the original project report** in the bound form along with the CD (containing the executable file(s) of the project should be enclosed in the last page) is to be submitted to the IGC concerned. One photocopy of the same Project Report and the CD containing the executable file(s) must be retained by the student, which should be produced before the examiner at the time of viva-voce.
6. A photocopy of the project report is **not acceptable** for submission. Kindly mention on the top of the envelope **BCA PROJECT REPORT (BCA-307)**
7. Title of the project should be kept the same throughout the project.

GUIDELINES FOR PROJECT EVALUATION

Project Evaluation

The Project Report is evaluated for 100 marks. In project (BCA-307) a student must secure **50% marks to pass the examination**

Unfair means

Projects copied from other students will be considered to have used unfair means. If Two projects are found identical zero marks will be awarded to both of them. In such a case the projects will have to be resubmitted on new topic.

CERTIFICATE OF ORIGINALITY

This is to certify that the project report entitled _____

submitted to **Jaipur National University, Jaipur** in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF COMPUTER APPLICATIONS (BCA)**, is an authentic and original work carried out by Mr. / Ms. _____ with enrolment number _____ under my supervision and guidance.

The matter embodied in this project is genuine work done by the student and has not been submitted whether to this University or to any other University / Institute for the fulfilment of the requirements of any course of study.

.....
Signature of the Student:

Date:

Name and Address
of the Student:

Enrolment No.: _____

.....
Signature of the Guide

Date:

Name, Designation and
Address of the Guide:

JAIPUR NATIONAL UNIVERSITY

COURSE CODE: BCA-307

TITLE OF THE PROJECT

Submitted to the
School of Distance Education & Learning
in partial fulfillment of the requirements
for the award of the degree
Bachelor of Computer Applications (BCA)

Year of Submission

Supervisor's Name _____

Student's Name: _____

& Designation: _____

Enrolment No.: _____

Roll No.: _____



JAIPUR NATIONAL UNIVERSITY

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