

# Jaipur National University, Jaipur

## School of Distance Education and Learning

### Guidelines for Project

#### 1. Project Report (MCA 305)

- **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 proposal should contain complete details in the following form:
- Proforma for Approval of Project Proposal duly filled-in and signed by both the student and the Project Guide with date should be sent to the Head SODEL for Approval with the Bio-data of the project guide with her/his signature and date.
- Synopsis of the project proposal (15-20 pages) covering the following aspects may be prepared:
  - (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 proposal completed in all aspects with necessary enclosures should be sent to Head SODEL JNU Jaipur. While posting your proposal to the University you should write on the top of the envelope **“MCA Project Proposal (MCA-305)”**
3. A project proposal, once approved, **is valid for one year**. In case, a student is unable to submit her/his project report within one year, she may be given another chance for submission of the project report subject to validity of his/her registration.
4. All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete approval-proforma in any respect will be summarily rejected.
5. A **photocopy of the complete Project Proposal** (along with Project Proforma, Project Synopsis, Bio-data of the guide) submitted to, should be retained by the student for future reference.
6. The evaluated project proposal proforma along with the details of Approved/Disapproved will be sent to the student within 4-6 weeks after the Head SODEL receives the proposal. In case if it is disapproved, the suggestions for reformulating the project will be communicated to the student. Revised project proposal proforma, synopsis, bio-data of the guide with her/his signature on it, should be sent along with the original copy / photocopy of the non-approved proforma of the earlier project proposal, to the Head SODEL.
7. The project is a part of your final Year curriculum. Students are eligible to submit the project proposals after Second year MCA.
8. 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”**
9. ***Please ensure that at any given point of time, a guide should not provide guidance for more than 5 MCA students of JNU-Jaipur.***
10. **Violation of the project guidelines will lead to the rejection of the project at any stage.**

## PREPARATION FOR THE PROJECT

### 1. **Project Report Formulation:**

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

- i) Original copy of the Approved Proforma and Project Proposal
- ii) Bio-data of the guide with her/his signature and date
- iii) Certificate of Originality
- iv) Project documentation
- v) 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 documentation** may be about 100 to 125 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 and every component shown below carries certain weightage in the project report evaluation.

- Table of Contents / Index with page numbering
- Introduction / Objectives
- System Analysis
  - Identification of Need
  - Preliminary Investigation
  - Feasibility Study
  - Project Planning
  - Project Scheduling
  - Software requirement specifications (SRS)
  - Software Engineering Paradigm applied
  - Data model, Control Flow diagrams, state Diagrams/Sequence diagrams ERD's/Class Diagrams/CRC Models/Collaboration Diagrams/Use-case Diagrams/Activity Diagrams depending upon your project requirements.

- 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. If any project report is received in the absence of the approved project proposal proforma (in original), project synopsis, bio-data of the guide with her/his signature on it, certificate of originality and CD it will be summarily rejected and returned to the student for compliance.
5. 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.
6. **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.
7. A photocopy of the project report is **not acceptable** for submission. Kindly mention on the top of the envelope **MCA PROJECT REPORT (MCA-305)**
8. Title of the project should be kept the same through out the project.

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## GUIDELINES FOR PROJECT EVALUATION

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Each component of the project work carries its own weightage, so the student needs to concentrate on all the sections given in the project report formulation.

In this section, we have given a few general parameters as checkpoints for the assessment of any software development project. You can note these points and emphasize them during the project report preparation and examination. Assessment will be based on the quality of your report, the technical merit of the project and the project execution. Technical merit attempts to assess the quality and depth of the intellectual effort, you have put into the project. Project execution is concerned with assessing how much work you have put in.

### **Project Evaluation**

The Project Report is evaluated for 400 marks. A student in order to be declared successful in the project (MCA-305) must secure **50% marks**

### **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.



# JAIPUR NATIONAL UNIVERSITY

## JAGATPURA, JAIPUR

### PROJECT TRAINEE LETTER (MCA-305)

**Date:** \_\_\_\_\_

This is to certify that Mr. / Ms. \_\_\_\_\_ with Enrolment No. \_\_\_\_\_ is a final year student of the Master of Computer Applications (MCA), Jaipur National University (JNU), and is required to do a six months MCA project work in his/her final year starting from January/July session. His/Her project must be undertaken in a Software Development Organization/Industry/ Research Laboratory under the supervision of a guide, preferably from the same organization with the educational qualifications and experience mentioned in the MCA-305 project guidelines. During her/his course of study, the student has studied and gained knowledge on various Computer Science courses. He/She may please be given a chance to work in your esteemed organization and complete his/her project work. The experience gained by this project work, not only benefits the student to partially fulfil the requirements of the MCA of JNU, Jaipur, but also lays a foundation for his/her future career.

Looking forward to your positive response, support and cooperation.

**Signature, Name of the SODEL Director / Stamp**

**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 **MASTER OF COMPUTER APPLICATIONS (MCA)**, 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: MCA-305

TITLE OF THE PROJECT

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

Year of Submission (to be mentioned by the Student)

Supervisor's Name \_\_\_\_\_

Student's Name: \_\_\_\_\_

& Designation: \_\_\_\_\_

Enrolment No.: \_\_\_\_\_

Roll No.: \_\_\_\_\_



## JAIPUR NATIONAL UNIVERSITY

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Jagatpura, Near New RTO, Agra By-pass Road Jaipur-302017