

**Course Name:** Internship cum Software Development Project

**Course Code:** MSCIT-401

**Total Marks:** 400

### 1. Basic Information

Semester	Course Code	Course Name	CP	TYPE
IV	MSCIT-401	Internship cum Software Development Project	16	PR

### Introduction of Project

Most professional curricula include a significant portion of project work. Students are requested to apply his/her innovative ideas to develop solution to satisfy the need of IT. Students should develop a project in such a way that present time inconveniences can be quickly solved through software. Rather than taking projects as part of their program only, students should create projects on the basis of their inherent ability which increases your importance at the time of interview in the IT industry.

### Project Guidelines

#### A. Project Guide Eligibility Criteria:

Full Time Faculties in the Department of Computer Science/ Information Technology of BAOU/ Colleges/ Institutions affiliated to any Indian University recognized by UGC and having minimum 2 years teaching experience.

OR

A person having minimum M. Tech, MCA, M.Sc. in Computer Science/Information Technology from a UGC recognized universities with 4 years experience in Industry/teaching.

**Please note that spouse, direct relatives, and blood relations are not permitted to be the guide.**

#### B. Points to remember while preparing the project proposal

##### 1. The creation of the project report:

The project report should include the following:

- (i) An original copy of the project proposal and the approved proforma.
- (ii) Originality Certificate
- (iii) Project documentation

(iv) The project report's last page should have an attachment—a CD containing the project's executable file(s). It should never be sent separately. The student must save the exact duplicate of the CD that must be brought with them when they appear for the viva-voce, along with the project report.

##### 2. The project documentation might consist of between 100 and 125 pages

(code not included). The project documentation's specifics shouldn't be overly standardised. It is necessary to properly record your project report, including how you conducted your project's analysis, design, coding, usage of testing techniques/strategies, etc. To be more precise, whatever theory is presented in the reference books about these areas should be disregarded as much as possible. Only your project should be covered in the project documentation.

**3.** On A4 paper (just one side), the project report should typically be produced with single line spacing. Numbering is required for all the pages, tables, and figures. Titles should be present in tables and figures.

**4.** The Regional Centre/Study Centre must receive just one copy of the original project report in bound form, together with the CD (which should be enclosed on the last page and include the project's executable files). The student must keep one photocopy of the identical Project Report and the CD containing the executable file(s), which must be presented to the examiner during the viva-voce.

**5.** A Project cannot be submitted as Softcopy. It is mandatory to mention your Course code and Course Name "MSCIT-401 Internship cum Software Development Project" and Academic Year on the first page so sorting will be easier for Regional Centre/Study Centre.

**6.** Ideally, only one student should be allowed to work on a project at a time. However, if a project is sufficiently extensive that it will take one human year or more to complete, only two students at most may work on it due to the requirement of six human months per student. Prior approval is required in this respect, and it must be acquired from the relevant Project Guide.

**7.** If two students are permitted to collaborate on a project, their project reports must only list the several modules that they both undertook or worked on independently. The project reports for each student's modules must be submitted separately. Project reports that are wholly similar are not permitted. Only the introduction and, potentially, the conclusion may be identical.. Each student must go through every phase and stage software Development life cycle. In this situation, the preceding suggestion from the project coordinator or project guide must be attached by both students. It is not acceptable to submit a single copy of a project report that combines the work of two or more students. The project may be rejected if these standards are broken.

**8.** Every stage of the project development should engage the student. The project may be rejected or disqualified at any step if it is discovered that a student was not active in any phase, such as the coding phase.

**9.** Each student has to submit his/her Title of the Project within the first month of the Semester to the Project Guide or Project Coordinator.

**10.** Title of the project should be kept the same throughout the project.

## **C. Assessment Guidelines project Evaluation**

### **1. Viva Voce**

Students have the opportunity to showcase their knowledge and skills to the expert in this evaluation component. The student can be asked to present the project demo in addition to questions on the project-related topics and the relevant courses. Additionally, you can be instructed to develop the code for an issue to show off your programming skills. Along with the project report, the student must provide a duplicate CD containing the executable file(s) that were submitted when submitting the project report while appearing for the viva-voce.

### **2. Project Evaluation**

Viva-voce is compulsory and forms part of evaluation. A student in order to be declared successful in the project must appear in both (i) Project Evaluation and (ii) Viva-voce. Pass in both the components is compulsory. If a student submitted the project report as per the schedule and fails to attend viva, her/his Project will remain incomplete and should contact the Regional Centre concerned.

## **D. Type of Project**

Learner may choose any topics according to Master of Science - Information Technology standards. Most of the project work falls under the following types

- a. Database oriented (e.g. payroll system, Loan management system etc.)
- b. Application oriented (e.g. Mobile apps development, web based development)
- c. R & D project (e.g. Image processing, speech processing, data mining, networking etc.)

## **E. Project Proposal (Synopsis)**

The project proposal or the synopsis is the frame work for carrying out the project. It should be prepared in consultation with Guide. The necessary parts of a project proposal are given in the following form:

- Title of the Project.
- Introduction and Objectives of the Project.
- Project Category (RDBMS/ Application/ R & D).
- Tools, Platform, Hardware and Software Requirement specifications.
- Whether the project is done for any Industry/Client? The Name and Address of the Industry or Client is to be mentioned.
- Methodology
- Expected output
- Conclusion

## F. Application Areas & Related Tools

A list of selected area for developing the project work is given below:

### Applications Areas:

Financial/ Manufacturing/ Multimedia/ Computer Graphics/ Instructional Design/ Database Management System/ Internet/ Intranet/ Computer Networking-Communication Software/ E-Commerce/ TCP/IP Internals/ Routing protocols/ Implementation of Switches & Routers/ Image processing,/ Mobile apps development etc..

### Related Tools:

- **Front End / GUI Tools:** PHP, Scripting languages, NetBeans, VB.Net etc.
- **RDBMS/Back End:** Oracle, MYSQL, No SQL, DB2 etc.
- **Languages:** C, C++, Java, VC++, C#, Mat lab, Python, Scilab etc.
- **Internet Technologies :** DHTML, Java script, VB Script, HTML, Java, Active X, SWING, JSP,ASP, PHP, XML, Java Beans, Java Servlets, CSS, VB.Net, AWT, J2EE.
- **Networking Technologies:** ATM, Frame Relay, TCP/IP, SNMP, GSM, VoIP, PPP, IP-PSTN, SONET/SDH
- **Wireless Technologies:** Bluetooth, 3G, ISDN, EDGE
- **Operating Systems:** Windows/ DOS / UNIX / Linux /Android.
- **Application Areas :** Financial / Insurance / Manufacturing / Multimedia / Computer Graphics / Instructional Design/ Database Management System/ Internet / Intranet / Computer Networking-Communication Software development/ Ecommerce/ ERP/ MRP/ TCP-IP programming / Routing protocols programming/ Socket programming etc.

**Note: Students can also develop applications using tools / languages / software not listed above, if they are part of latest technologies. Use the latest versions of the software packages for the project development.**

### Software Project Report Guideline

The Project report should prepared in well-structured preferably typed in Latex. Depending on the type of project the report should be as follows:

Acknowledgement  
Content with page number  
Declaration Certificate  
Certificate from Guide

#### Chapter-1: Introduction

Brief idea about the project  
Objective of the project

Scope of the project  
Existing system  
Proposed System  
Platform used (Hardware & Software)  
Project location

## **Chapter-2: Requirement Analysis**

Introduction  
Tools used for Requirement gathering  
Problem in Existing System  
Conclusion

## **Chapter-3: Logical Design**

Introduction  
DFD (0th, 1st, 2nd level)  
ER diagram  
Use case diagram  
Activity diagram  
Conclusion

## **Chapter-4: Physical Design**

Introduction  
Database Design (Give your normalized database here)  
Module design  
Input/output design  
Conclusion

## **Chapter-5: Implementation**

Introduction  
Process description (if any)  
Output & Report  
Conclusion

## **Chapter-6: Testing**

Introduction  
Types of testing performed  
Conclusion

References  
Appendix (if any)

**Certificate of Originality from the Guide**

This is to certify that the project report entitled

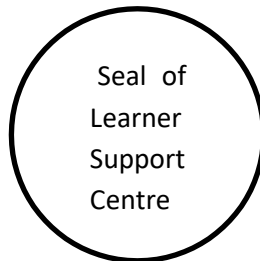
.....  
.....submitted to **Dr. Babasaheb Ambedkar Open University** in partial fulfillment of the requirement for the award of the degree of **Master of Science in Information Technology Master of Science - Information Technology**, is an original work carried out by Mr./ Ms.

..... Enrolment No.:  
..... under the supervision of Mr./Mr./Ms. ....  
.....  
.....

The matter embodied in this project is a genuine work done by the learner and has not been submitted either to this University or to any other University/Institute for the fulfillment of the requirement of any course of study.

Signature of the Learner  
Name  
Address  
Enrolment No.:

Signature of the Guide  
Name  
Designation  
Address



## Format of the Software Project Report

A Project Report on

Title of the Project

In fulfillment of the requirement for the 6th Semester of  
Master of Science in Information Technology  
Programme



Submitted by

.....

**(Name of the Learner)**

**Enrollment No.:** .....

**Session:** .....

Under the Guidance of

.....

**(Name of the Project Guide)**

Learner Support Centre

.....

**(Name of the Learner Support Centre)**

.....

**(Location)**