

Directorate of Distance Education  
Swami Vivekanand Subharti University

**DIRECTORATE OF DISTANCE EDUCATION**

A Project Report on

**Title of the Project**

Directorate of Distance Education  
Swami Vivekanand Subharti University  
Meerut



Submitted for partial fulfillment for award of the degree in  
**Master of Computer Application (MCA)**

**BY STUDENT**

Name-  
Enrollment No.-  
Batch-

Under the Supervision  
Name of the guide

**Directorate of Distance Education  
Swami Vivekanand Subharti University**

**CERTIFICATE OF ORIGINALITY**

This is to certify that the project report entitled \_\_\_\_\_ submitted to **Directorate of Distance Education, SVSU** 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 no. \_\_\_\_\_ under my 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:

\_\_\_\_\_  
Signature of the Guide

Date: .....

Date: .....

Name and Address  
of the student

Name, Designation  
and Address of the

Guide:

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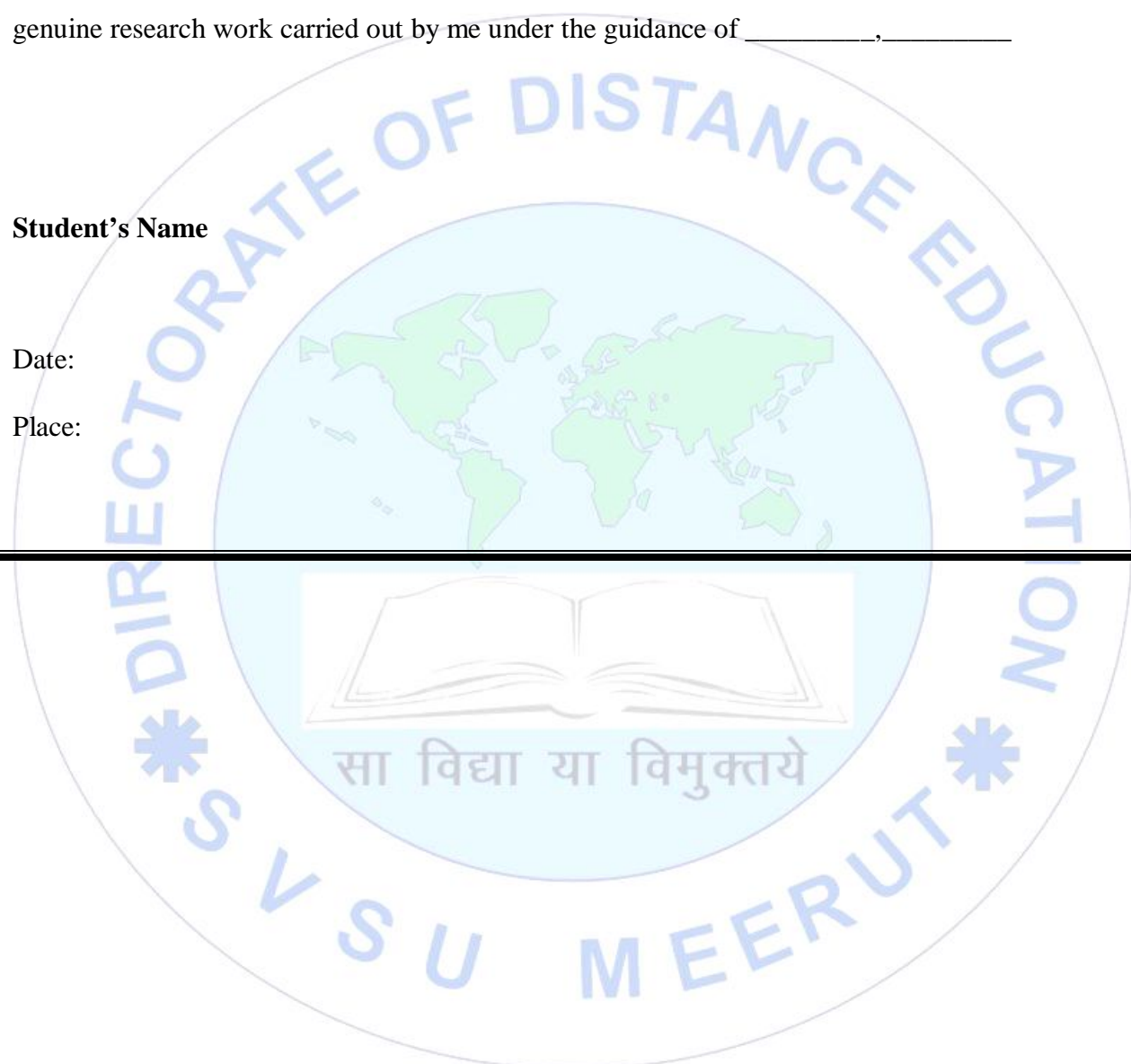
**DECLARATION BY THE CANDIDATE**

I hereby declare that the project entitled, “\_\_\_\_\_” is a bonafide genuine research work carried out by me under the guidance of \_\_\_\_\_, \_\_\_\_\_

**Student's Name**

Date:

Place:



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**MANUAL FOR PREPARATION OF MCA Project**  
(Prescribed Format and Specification)

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**I INTRODUCTION AND OBJECTIVES**

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The Project work constitutes a major component in most professional programmes. It needs to be carried out with due care, and should be executed with seriousness by the students. The project work is not only a partial fulfilment of the MCA requirements, but also provide a mechanism to demonstrate your skills, abilities and specialisation. The project work should compulsorily include the software development.

**Learners are advised to attach with an organization to develop the software project for any problem of that organization.**

**OBJECTIVES**

**The objectives of the project is to help the student develop the ability to apply theoretical and practical tools/techniques to solve real life problems related to industry, academic institutions and research laboratories.**

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**II TYPE OF THE PROJECT AND ELIGIBILITY CRITERIA OF THE PROJECT GUIDE**

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**Type of the Project**

The majority of the students are expected to work on a real-life project preferably in some industry/ Research and Development Laboratories/Educational Institution/Software Company. Students are encouraged to work in the areas listed at the end. However, it is *not mandatory* for a student to work on a real-life project. The student can formulate a project problem with the help of her/his Guide.

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**Eligibility criteria of a Project Guide**

1. A person having Ph.D./ M.Tech. in Computer Science with a minimum of one year of experience.

*Or*

2. A person having B.E./B.Tech. (Computer Science), MCA, M.Sc. (Computer Science) with minimum 2 years experience, preferably in software development.

*Please ensure that at any given point of time, a guide should not provide guidance for more than 5 MCA students of SVSU.*

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**III POINTS TO REMEMBER WHILE PREPARING THE PROJECT REPORT**

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**1. Project Report Formulation:**

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

- (i) Original copy of the Project Report.
- (ii) Bio-data of the guide with her/his signature and date.
- (iii) Certificate of Originality.
- (iv) Project documentation.
- (v) A CD/DVD 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. The student needs to retain the identical copy of the CD that should be carried while appearing for the viva-voce along with the project report.

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1. The **project documentation** may be about 150 to 300 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 weight age in the project report evaluation.

Following should be included in the project report.

Title Page  
Certificate from Company  
Certificate from Guide  
Acknowledgement  
Index with printed Page Numbers

**CHAPTER 1 : INTRODUCTION**

- 1.1 Company Profile
- 1.2 Existing System and Need for System
- 1.3 Scope of Work
- 1.4 Operating Environment – Hardware and Software

**CHAPTER 2: PROPOSED SYSTEM**

- 2.1 Proposed System
- 2.2 Objectives of System
- 2.3 User Requirements

**CHAPTER 3: ANALYSIS & DESIGN**

- 3.1 Data Flow Diagram (DFD)
- 3.2 Functional Decomposition Diagram (FDD)
- 3.3 Entity Relationship Diagram (ERD)
- 3.4 Data Dictionary
- 3.5 Table Design

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- 3.6 Code Design
- 3.7 Menu Tree
- 3.8 Menu Screens
- 3.9 Input Screens
- 3.10 Report Formats
- 3.11 Test Procedures and Implementation

CHAPTER 4: User Manual

- 4.1 User Manual
- 4.2 Operations Manual / Menu Explanation
- 4.3 Forms and Report Specifications

Drawbacks and Limitations

Proposed Enhancements

Conclusions

Bibliography

Annexures:

Annexure 1: Input Forms with data

Annexure 2: Output Reports with Data

Annexure 3: Sample Code

2. The project report should normally be printed with single line spacing on A4 paper (one side only). All the pages, tables and figures must be numbered. Tables and figures should contain titles.
3. **Only one copy of the original project report** in the bound form along with the CD/DVD (containing the executable file(s) of the project should be enclosed in the last page) is to be submitted to the Regional Director of the Regional Centre concerned through registered insured post by the date mentioned in the Calendar for the project. 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.
4. **Preferably, not more than one student is permitted to work on a project.** However, in case a project is comprehensive enough that requires one human-year or more time for its completion, then as per requirements of six human-months per student, at most two students may work on the same project. **In this regard, prior recommendation is mandatory and must be obtained from the MCA Project Coordinator, Directorate**

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of Distance Education, Swami Vivekanand Subharti University, Meerut, U.P - 250005 by sending the complete synopsis by both the students along with a hand-written application.

5. Student should be involved in each and every phase of Project Development. If it is found that student is not involved in any phase for example coding phase, it may lead to the rejection/disqualifying of the project at any stage.
6. Title of the project should be kept the same through out the project.

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#### **IV Viva Voce**

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While appearing for the viva-voce, along with the project report the student should needs to carry the identical copy of the CD/DVD of the executable file(s) which s/he submitted at the time of project report.

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#### **V SOFTWARE AND BROAD AREAS OF APPLICATION**

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FRONT END / GUI Tools	Visual Basic, Power Builder, X-Windows (X/lib, X/motif, X/Intrinsic), Oracle Developer 2000, VC++, Jbuilder , NetBeans
RDBMS/BACK END	Oracle, Ingres, Sybase, Progress, SQL Plus, Versant, MY SQL, SQL Server, DB2, Point base
LANGUAGES	C, C++, Java, VC++, C#, eclipse
SCRIPTING LANGUAGES	PERL, SHELL Scripts (Unix), Tcl/TK,
RDBMS/BACK END	Oracle, Ingres, Sybase, Progress, SQL Plus, Versant, MY SQL, SQL Server, DB2
.NET Platform	VB.Net, C#. Net, Visual C#. Net, ASP.Net
MIDDLE WARE (COMPONENT) TECHNOLOGIES	COM/DCOM, Active-X, EJB, WINCE, MSMQ, BEA,



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UNIX INTERNALS	MessageQ, MTS, CICS
ARCHITECTURAL CONCEPTS	Device Drivers, RPC, Threads, Socket programming
INTERNET TECHNOLOGIES	CORBA, TUXEDO, MQ SERIES
	DHTML, Java script, VB Script, Perl & CGI script, Java, Active X, RMI, CORBA, SWING, JSP, ASP, XML, EJB, Java Beans, Servlets, Visual Age for JAVA, UML, VRML, WML, Vignette, EDA, Broadvision, Ariba, iPlanet, ATG, BigTalk, CSS, XSL, Oracle ASP server, AWT, J2EE, LDAP, ColdFusion, Haskell 98, PHP, NetBeans
NETWORK/WIRELESS TECHNOLOGIES	Blue Tooth, 3G, ISDN, EDGE
REALTIME OPERATING SYSTEM/ EMBEDDED SKILLS	QNX, LINUX, OSEK, DSP, VRTX, RTXC, Nucleus
OPERATING SYSTEMS	WINDOWS 2000/ME, WINDOWS NT, WINDOWS XP, UNIX, LINUX, IRIX, SUN SOLARIS, HP/UX, PSOS, VxWorks, AS400, AIX, DOS
APPLICATION AREAS	Financial / Insurance / Manufacturing / Multimedia / Computer Graphics / Instructional Design/ Database Management System/ Internet / Intranet / Computer Networking-Communication Software development/ E-Commerce/ ERP/ MRP/ TCP-IP programming / Routing protocols programming/ Socket programming.