

# LAKSHMI NARAIN COLLEGE OF TECHNOLOGY(MCA), BHOPAL

Date: 08.08.2024

## **NOTICE**

This is to inform you that all the students of MCA-III Semester have to finish project report work and get their report files ready, checked by the concerned faculties (mentioned below) up to **November 20, 2024**, for the following subjects:

- a. MCA-306, Minor Project


SN	SEMESTER	MCA-306 Minor Project
1.	III	Concerning project guide

Students shall be allowed to appear in the practical examination only if he carries his Project Report.

Guidelines for preparing project report files are given in the following pages.

Director,  
Lakshmi Narain College of Technology (MCA)  
Bhopal, M.P.

## **Guidelines for Preparation of Project Report (MCA-306, Minor Project)**

1. The font used is Garamond
2. The figures mentioned within the brackets are the font sizes.
3. The running text in the project should be 12 font size.
4. Color of Binding page is “maroon” 
5. Title page to be placed on the binding of the Project Report.
6. There will be a college project guide.
7. Two copies of the project report are to be prepared. One will be submitted to the college, and one will be returned to the student.
8. Samples pages are attached for your convenience.
9. The sequence of the pre-pages will be as follows:
  - i. Title Page
  - ii. Certificate (college)
  - iii. Certificate of Approval
  - iv. Declaration
  - v. Content

# **TITLE OF THE PROJECT (28)**

A

## **PROJECT REPORT**

Submitted partial fulfillment of the Requirements  
For the award of Master of Computer Application Degree (14)

**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA  
BHOPAL (M.P.) (14)**



## **MINOR PROJECT REPORT (14)**

Submitted (14)

Group No. - .....

Name of Candidate (14)( Enrolmnt No.)

Name of Candidate (14)( Enrolmnt No.)

Name of Candidate (14)( Enrolmnt No.)

Name of Candidate (14)( Enrolmnt No.)

Under the Guidance of (14)

<Name of the Guide>



**MASTER OF COMPUTER APPLICATION (14)**

**LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA)**

**BHOPAL (16)**

JULY-DECEMBER 2024

# **LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOPAL (16)**

## **MASTER OF COMPUTER APPLICATION (14)**

### **CERTIFICATE (16)**

This is to certify that the work embodied in this Minor project, **“Title of the Project”** has been satisfactorily completed by **<names of student’s (Enrollment No.)>**. It is a bonafide piece of work, carried out under my guidance in the **Master of Computer Application, Lakshmi Narain College of Technology (MCA), Bhopal** for the partial fulfillment of the **Master of Computer Application** degree during the academic session July-December 2024. (14)

Guided By

**Prof. Name of Guide**

Approved By

**Head of Department**

Forwarded by

**Director**

**Lakshmi Narain College of Technology (MCA), Bhopal (14)**

# **LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOPAL (16)**

## **MASTER OF COMPUTER APPLICATION (14)**

### **CERTIFICATE OF APPROVAL (16)**

This foregoing Minor project is hereby approved as a creditable study of a Computer Application Subject carried out and presented in a manner satisfactory to warranty its acceptance as a prerequisite to the degree for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed, or conclusion drawn therein, but approve the thesis only for the purpose for which it has been submitted. (14)

(Internal Examiner)

(External Examiner)

# LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOPAL (16)

## MASTER OF COMPUTER APPLICATION (14)

### DECLARATION (16)

We, **<name of the students, Enrollment Number>**, the students of Master of Computer Application, Lakshmi Narain College of Technology (MCA), Bhopal hereby declare that the work presented in this Minor Project is outcome of our own work, is bonafide, correct to the best of our knowledge and this work has been carried out taking care of Engineering Ethics. The work presented does not infringe any patented work and has not been submitted to any University for the award of any degree or any professional diploma. (14)

<Name of the Student's> (14) (<Enrollment No.> (14)) <Signature>

<Name of the Student's> (14) (<Enrollment No.> (14)) <Signature>

<Name of the Student's> (14) (<Enrollment No.> (14)) <Signature>

<Name of the Student's> (14) (<Enrollment No.> (14)) <Signature>

Date: DD-MM-YYYY(14)

## **Master in Computer Applications (MCA) - Vision and Mission**

### **Vision and Mission of the Institution**

#### **Vision**

To be a premier institute where globally competent computer professionals, innovators, and entrepreneurs have evolved with patriotism and nurtured ethical values.

#### **Mission**

- ❖ To offer high-grade, value-based Post-graduate Programmed in the field of Computer Applications.
- ❖ To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- ❖ To provide a conducive environment to achieve excellence in teaching-learning, and research & development activities.
- ❖ To enhance proportion of skilled based courses beyond curriculum to create more employable post-graduates.
- ❖ To provide appropriate forums to develop innovative talents, practice ethical values and inculcate as enduring learners.

# Master in Computer Applications (MCA) - Programme

Outcomes (POs) On completion of MCA Course, the

Post-Graduates will be able to:

<b>PROGRAMME OUTCOMES</b>	
PO-1	Apply the knowledge of computing fundamentals, computing models, and mathematics to real life applications.
PO-2	Design and develop models to analyze and solve computer science related problems using principles of mathematics and computing sciences.
PO-3	Design and develop applications and/or system components for any desired needs with appropriate considerations for societal and environmental aspects.
PO-4	Analyze and review research-based knowledge and experiments to invoke the research skills to design, interpret and conclude from the resulting data.
PO-5	Create, adapt, and apply modern computing tools efficiently to computer applications with the understanding of limitations.
PO-6	Work and solve problems with a professional context pertaining to ethics, social, and cyber regulations.
PO-7	Involved in perpetual learning for continued career development and progress as a computer professional.
PO-8	Act efficiently both as a team leader and team member on multi-disciplinary projects to demonstrate knowledge and understanding of computing and management skills.
PO-9	Communicate and present technical information effectively in oral and written reports to the computing community.
PO-10	Utilize computing knowledge efficiently in projects and professional computing practices with the concern for societal, environmental, and cultural aspects in local and global contexts.
PO-11	Function competently as an individual, and as a member or leader in multidisciplinary projects.
PO-12	Create and design innovative methodologies to solve problems and apply inherent skills as an entrepreneur to create value and wealth for the betterment of the individual and society.



**Lakshmi Narain College of Technology  
(MCA), Bhopal**

**Master in Computer Applications (MCA)**

**Program Educational Objectives (PEOs)**

**PEO-1:** To evolve post-graduates having a strong background of algorithm designs, database creations, programming concepts and ability to use in applications.

**PEO-2:** To evolve post-graduates who can demonstrate technical competence in the field of computer applications and develop solutions to complex problems.

**PEO-3:** To evolve post-graduates having professional competence through life-long learning such as advanced degrees, professional skills and other activities related to globally to computer applications & society.

**PEO-4:** To evolve post-graduates who function effectively in a multi-disciplinary environment and individually, within a societal and environmental context.

**PEO-5:** To evolve post-graduates who would be able to take individual responsibility and work as a part of a team towards the fulfillment of both individual and organizational goals.

# CONTENTS

---

Certificate	
Certificate of Approval	
Declaration	
Vision and Mission of the Institution	
Programmed Outcomes	
Program Educational Objectives (PEOs)	
Acknowledgment	1
<b>Chapter 1. Introduction</b>	
1.1 Project Overview	1
1.2 Purpose/Objective of Project	1
1.3 Problems in Existing System	3
1.4 Solution of these Problems	10
1.5 Socio-Economic Benefits	
<b>Chapter 2. System Analysis</b>	
2.1 Introduction	
2.2 Study of the System/Data Gathering Techniques	
2.3 Process Models with Justification	
2.4 Feasibility Study	
2.4.1 Technical Feasibility	
2.4.2 Operational Feasibility	
2.4.3 Socio-Economic Feasibility	
2.5 Checks & Validations	
<b>Chapter 3. Software &amp; Hardware Requirement Specifications</b>	
3.1 Introduction	
3.2 Software Requirements	
3.2.1 Introduction of Front-End (used to develop project)	
3.2.2 Front-End Features (used in developing the project)	
3.2.3 Introduction of Back-End (used to develop project)	
3.3.4 Back-End Features (used in developing the project)	

3.4.5 Justification for Choosing the Front-End & Back-End

3.3 Hardware Requirements

## **Chapter 4. System Design**

4.1 Introduction

4.2 Data Flow Diagram

4.3 E-R Diagram

4.4 Database Description (Normalized)

4.5 Implementation (Coding)

## **Chapter 5. Graphical User Interface Design**

5.1 Introduction

5.2 Input Forms

5.3 Output Forms

5.4 Reports

## **Chapter 6. System Testing**

6.1 Introduction

6.2 Testing Strategies

6.3 Testing Approach Adopted

## **Bibliography**

## **BIBLIOGRAPHY**

1. Rajkumar Buyya, Christian Vecchiola and Thamarai Selvi (2013): “Mastering Cloud Computing”, Tata McGraw Hill, ISBN-13: 978-1-25-902995-0, New Delhi, India, Feb. 2013.
2. Kumar Saurabh (2012), “Cloud Computing”, 2nd Edition, Wiley Pub., 2012
3. Sosinsky, B. (2011), “Cloud Computing Bible”, Wiley, Indianapolis, Indiana Wiley Publishing, Inc. 2011.
4. Ronald L. Krutz, Russell Dean Vines(2010): “Cloud Security“, Wiley, September 2010.
5. Velte (2012): “Cloud Computing- A Practical Approach”, TMH Pub., New Delhi, India, March. 2012.