

# **ALAGAPPA UNIVERSITY**

**(A State University Accredited with A+ Grade By NAAC (CGPA:3.64) in the Third Cycle and  
Graded as Category-I University By MHRD-UGC)**

**Karaikudi – 630003.**

**Tamilnadu**

## **Directorate of Distance Education**



## **PROGRAMME PROJECT REPORT**

## **CERTIFICATE COURSE IN OFFICE AUTOMATION**

**Submitted for seeking approval to introduce  
programme through Distance Education Mode**

**December 2020**

## **Certificate Course in Office Automation**

Credit Based Curriculum and Evaluation System

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## **Certificate Course in Office Automation**

Credit Based Curriculum and Evaluation System

### **DIRECTORATE OF DISTANCE EDUCATION**

### **CERTIFICATE COURSE IN OFFICE AUTOMATION**

### **Credit Based Curriculum and Evaluation System**

**(With effect from Calendar Year 2021 Onwards)**

#### **(a) PROGRAMME'S MISSION AND OBJECTIVES**

##### **Mission**

Mission is to impart employability and creativity to the students and lives up to the standards of Government Organizations, Computer science, Computer Applications and Information Technology (IT) industry.

##### **Programme Objectives**

The Office Automation course familiarizes students with the basic concepts of computers and Office automation tools. This Course will help the students to handle the computers in Government Organization / Business and Industry and they can able to prepare Office Letters, Mail merge, Chart, and Presentation slides.

#### **(b) PROGRAMME OUTCOME**

- ✓ To widen the ability to prepare, analyze, design, implement & maintain the Office Automation Tools.
- ✓ To knowledge the students in finding solutions and developing Office Automation applications for real time problems in various domains involving technical, managerial, economical & social constraints.
- ✓ To prepare the students to pursue higher studies in computing or related disciplines and to work in the fields of Government / Private Jobs.

#### **(c) NATURE OF PROSPECTIVE TARGET GROUP OF LEARNERS**

The nature of prospective target group of learners is students from schools, Housewife's and college students from various discipline like Commerce, Mathematics, Physics, Chemistry, Biology, Electronics, and Engineering etc. It also includes the learners who want to become Data Entry Professional, Clerical Assistant etc.

#### **d) APPROPRIATENESS OF PROGRAMME TO BE CONDUCTED IN DISTANCE LEARNING MODE TO ACQUIRE SPECIFIC SKILLS AND COMPETENCE;**

Certificate Course in Office Automation Programme through Distance Learning mode is developed in order to give subject-specific skills including i) Basics of Computers ii) Knowledge about various Operating Systems, Internet Concepts.

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### (E) INSTRUCTIONAL DESIGN

#### e.1 Revisions of Regulation and Curriculum Design

1. The University reserves the right to amend or change the regulations, schemes of examinations and syllabi from time to time based on recent market dynamics, industrial developments, research and feedback from stakeholders and learners.
2. Each student should secure 8 credits to complete certificate programme.
3. Each theory and practical course carries 2 credits with 75 marks in the University End Semester Examination (ESE) and 25 marks in the Continuous Internal Assessment (CIA).

**Programme code:**

Certificate course in Office Automation	XXXXX
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#### Course of Study and Scheme of Examinations

S.No	Course Code	Name of the Course	CIA Marks Max.	ESE Marks Max.	Total Marks Max.	Credits
1	11	Computer Fundamentals	25	75	100	2
2	12	Principles of Information Technology	25	75	100	2
3	13	Office Automation	25	75	100	2
4	14	Office Automation - LAB	25	75	100	2
<b>TOTAL</b>			<b>100</b>	<b>300</b>	<b>400</b>	<b>8</b>

CIA: Continuous Internal Assessment ESE: End semester Examination

#### Course Code Legend:

			S	C
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– Programme code for Certificate Course in Office Automation

S -- Semester Number

C – Course Number in the Semester

#### e.2 Detailed Syllabi

The detailed Syllabi of study and shall be as shown in Appendix.

#### e.3 Duration of the Programme:

The certificate programme shall consist of a period of six months (One Semester).

##### e.3.1 Medium of Instruction

The medium of instruction is only in **English**.

The course material is also in **English**.

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### **e.4 Faculty and Support Staff Requirements:**

The following faculty and support staff are required for this programme.

<b>S.No</b>	<b>Staff Category</b>	<b>Numbers</b>
1	Core Faculty	3
2	Lab Assistant	1
3	Clerical Assistant	1

### **e.5 Instructional Delivery mechanisms**

The instructional delivery mechanisms of the programme includes SLM- Study materials, Lab instruction manual, Personal contact session for both theory and practical courses of the programme, e-version of the course materials in the form of e-book, e-tutorials, Power Point, Video Lecture Links, Video Lectures, Open Educational Resources (OER) and Virtual lab.

### **e.6 Identification of media**

The printed version of SLM – study material shall be given to the learners in addition to MOOC, e-tutorial and virtual lab.

### **e.7 Student Support Services**

The student support services will be facilitated by the Directorate of Distance Education, Alagappa University, Karaikudi and its approved learning centres located in various parts of Tamilnadu.

The pre-admission student support services like counseling about the programme including curriculum design, mode of delivery, fee structure and evaluation methods will be explained by the staff at Directorate of Distance Education or Learning centres.

The post-admission student support services like issuing Identity card, study materials will be provided thru Directorate or Learning centres. The face to face contact sessions of the programme for both theory and practical's will be held at the Directorate or Learning centres.

The student support regarding the conduct of examinations, evaluations, publication of results and certificates are done by Office of the Controller of Examinations, Alagappa University, Karaikudi.

## **F. PROCEDURE FOR ADMISSION:**

### **f.1 Minimum qualification for admission**

Candidates for admission to the certificate programme shall be required to have passed in H.S.C of Tamilnadu State or Equivalent Examination of any Recognized institution or authority accepted by the Syndicate of the Alagappa University as equivalent thereto shall be eligible.

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### f.2 Curriculum transaction

- The face to face contact sessions in class room teaching with the support of SLM, Power Point Presentations, web-based tools, audio and animated videos.
- The practical classes are based on the respective subject study materials containing requirement for the laboratory experiments.
- Face to face contact sessions will be conducted for both theory and practical courses in the following manner.

Course Type	PCP (in Hours)
Theory courses (3 Courses with 2 credits each)	18
Practical course (1 Course with 2 credit)	60
<b>Total</b>	<b>78</b>

### f.3 Evaluation

There shall be two types of evaluation systems; internal assessment and end semester examination will be conducted by the University according to the following scheme. The maximum marks for the internal assessment for both theory and practical's is 25 marks. The maximum marks for end semester examination is 75 marks for each course. The candidate failing in any course(s) will be permitted to appear for each failed course(s) in the subsequent examination. Candidates who have passed the examination in all prescribed courses as per the above regulations shall be eligible for the award of the programme.

#### Internal assessment

- Internal assessment of theory courses is through home assignment with workbook, case studies, review questions, quiz, multiple choice questions etc., for 25 marks.
- The internal assessment for the practical courses shall be through home assignment which includes formatting commands, workbook designing, preparing slides, and creating Database etc., for 25 marks.
- Student should submit assignment for theory and practical courses of every course.

#### Division of Internal Marks (Assignment)

Theory		Practical	
Assignment	Marks	Assignment	Marks
Class test/Review questions Workbook, case studies, quiz, multiple choice questions	25	Model practical, Preparing Word document, Workbook and Slides in Microsoft and Open Office Environment	25

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### **End Semester Examination (ESE)**

The university end Semester Examinations shall be of three hours duration with maximum of 75 Marks for both theory and practical courses.

#### **f.3.1 Minimum for a pass:**

To pass in each course, a candidate is required to secure 40% marks in the End Semester Examination and 40% marks in the aggregate (marks in End Semester Examination + marks in Internal Assessment).

The student who does not secure required minimum marks for pass in a course(s) shall be required to reappear and pass the same in the subsequent examination.

#### **f.3.2 Question Paper Pattern - Theory**

The end semester examination will be conducted in the duration of 3 Hours and maximum of 75 Marks.

#### **All the units Should be covered in each Part**

Part – A (10 x 2 Marks: 20 Marks) Answer all questions

Part – B (5 x 5 Marks: 25 Marks) Answer all questions choosing either (a) or (b)

Part – C (3 x 10 Marks: 30 Marks) (Answer any 3 out of 5 questions)

#### **End Semester Examination (ESE) - Practical**

Students are required to prepare a separate lab record for each lab course. The practical counsellor should duly sign this lab record after each session.

Students shall prepare practical record note book which includes aim, algorithm, source code, input, expected output and result of the experiment and submit during end semester practical examination.

#### **Division of marks in ESE – Practical (Maximum 75 marks)**

The end semester practical examination will be conducted in the duration of 3 Hours and maximum of 75 Marks.

<b>Practical details</b>	<b>Max. Marks</b>
Algorithm / Procedure	10
Start a program and Run a program	10
Running multiple programs	20
Results	10
Viva-Voce	10
Record	15
Total	75

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### **f.3.3 Procedure for Completing the Course:**

The candidate will qualify for the certificate programme only if he/she passes all the (including arrears) courses within a period of TWO years from the date of admission.

### **f.3.4 Results:**

Results will be declared at the end of each semester of the University examination and the marks/grade obtained by the candidate will be forwarded to them by the Controller of Examinations, Alagappa University.

### **f.4 Fees Structure:**

<b>Fee Particulars</b>	<b>Rs.</b>
Application Fee	100
Course Fees	2700
ICT fees	150
<b>Total Fees</b>	<b>2950</b>

The above-mentioned fees structure is exclusive of examination fees.

## **G. REQUIREMENT OF THE LABORATORY SUPPORT AND LIBRARY RESOURCES**

### **g.1 Laboratory Support**

A well-equipped Computer Laboratory was established in the Alagappa University, Karaikudi with necessary software's as per the practical's syllabi for conducting face to face contact sessions for practical courses of this programme. Model Practical Questions are available to the learners in the university website.

### **g.2 Library Resources**

The Directorate of Distance Education, Alagappa University provides library facility with number of books and Self Learning materials for Computer Science Programmes. The Central library of Alagappa University provides the collection of volumes of Self Learning Materials, Printed books, Subscriptions to printed periodicals and Non-book materials in print form for the learner's references. All these library resources are meant for learner's reference purpose only.

### **h) Cost estimate of the programme and the provisions:**

<b>Expense details</b>	<b>Amount in (Rs.) Approx.</b>
Programme development (Single time Investment)	3,50,000/-
Programme delivery (Per Sem)	4,00,000/-
Programme maintenance (per Sem)	1,00,000/-



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### **(i) Quality assurance mechanism and expected programme outcomes:**

#### **i.1 University's Moto:**

‘Excellence in Action’

#### **i.2 University's Vision and Mission**

##### **Vision**

Achieving Excellence in all spheres of Education, with particular emphasis on ' PEARL' - Pedagogy, Extension, Administration, Research and Learning.

##### **Mission**

Affording a High-Quality Higher Education to the learners so that they are transformed into intellectually competent human resources that will help in the uplift of the nation to Educational, Social, Technological, Environmental and Economic Magnificence (ESTEEM).

#### **i.3 University Objectives**

1. Providing for instructions and training in such branches of Learning at the university may determine.
2. Fostering Research for the Advancement and Dissemination of Knowledge and Application.

#### **i.4 Quality Policy**

Attaining Benchmark Quality in every domain of 'PEARL' to assure Stakeholder Delight through Professionalism exhibited in terms of strong purpose, sincere efforts, steadfast direction and skillful execution.

#### **i.5 Quality Quote**

Quality Unleashes Opportunities Towards Excellence (QUOTE).

#### **i.6. Course benchmarks**

The benchmark qualities of the programme may be reviewed based on the performance of students in their end semester examinations and number of enrolments of students. Feedback from the alumni, students, parents, stakeholders and employers will be received to analyse the benchmark qualities for the further improvement of the programme.

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## **Appendix A Detailed Syllabi**

### **11 COMPUTER FUNDAMENTALS**

#### **Course Objectives**

This course will introduce you to the field of computer science and the fundamentals of computer programming. It is specifically designed for students with no prior programming experience, and touches upon a variety of fundamental topics. The goal of the computer science curriculum is to provide students with the knowledge and tools that will allow them to design and implement effective, economical, and creative solutions for the needs of individuals, society, and the high-tech economy.

#### **Course Outcome**

At the end of this course, the student will be able to;

- Compare and contrast various types of computers
- Explain the purpose of CPU and how it works
- Describe how information is stored in memory
- Know about various types of software's and its applications

#### **UNIT I**

Introduction to Computers, History of computers, Types of computers, Characteristics of computers, Basic Anatomy of a computer, Applications of computer - Input and Output devices - Introduction – inputting text: keyboards, OCR, Bar codes and speech recognition - Inputting graphics- scanners – pointing devices - Output devices – types of screens- CRT- flat panel displays, Printers - Laser Printers, Ink-jet printers - other printers – color printers.

#### **UNIT II**

Memory and Types: Memory types – Main Memory - RAM, ROM, Types of ROMs- PROM, EPROM, EEPROM, Cache memory, virtual memory, buffers - Secondary storage - Diskettes - Hard Disks - Optical Disks - Magnetic Tapes – External Hard Disks, USB Flash Drive.

#### **UNIT III**

Number Systems: Binary, Octal, Decimal and Hexadecimal number Systems – Conversion from one base to another base – use of complements – binary arithmetic – Numeric and Character codes - Boolean Algebra and Combinational Circuits: Fundamental concepts of Boolean Algebra – DeMorgan's theorems.

#### **UNIT IV**

Program Language Translators: Assembler – Compiler – Interpreter – Utility Programs – Machine Language – Assembly Language – High Level Language – Flowchart - Algorithms

#### **UNIT V**

Operating Systems: Introduction – Types – Structure – Functions - Operating System Services – System Calls – System Programs – Operating System Design and Implementation - Windows Operating Systems: Desktop GUI: Introduction – Definition – Icons, Cursor/pointers - Dialog Boxes - Task Bar - – Windows Desktop Functions – Logoff/Shutdown - Linux Operating System: Introduction – Commands – Utilities - Administration

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### **UNIT VI**

Introduction, Significance of Database, Database System Applications; Data Independence; Data Modelling for a Database; Entities and their Attributes, Entities, Attributes, Relationships and Relationships Types, Advantages and Disadvantages of Database Management System, DBMS Vs RDBMS - Form of Basic SQL Query - Examples of Basic SQL Queries, Introduction to Nested Queries, Correlated Nested Queries, Set - Comparison Operators, Aggregate Operators, NULL values - Comparison using Null values - Logical connectives - AND, OR and NOT - Impact on SQL Constructs, Outer Joins, Disallowing NULL values.

#### **References:**

1. Dennis P.Curtin, Kim dolwy, KunL AWN, Xrhleen morin, Information Technology, the breaking wave, TMH 2000.
2. Sanjay saxena, A First Course in Computers (Based on Windows Xp and Office Xp) Vikas Publishing House; Second edition (2010).

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## **12FUNDAMENTALS OF INFORMATION TECHNOLOGY**

### **Course Objectives**

- To understand the revolution in computers and communications
- To know about various application software
- To understand the information systems and software development
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### **Course Outcome**

At the end of the course, students will be able to;

- To know the latest trends in information technology
- To understand the fundamentals of computers

#### **Unit I:**

Information Technology: Introduction – Information systems – Definition of computer and system – Software and Data - IT in business and Industry – IT in the Home and at Play – It in Education and Training – IT in Entertainment and the Arts – IT in Science, Engineering, and Mathematics– Global Positioning System.

#### **Unit II:**

Computer Networks: Introduction – Definition Computer Networks - Types of Networks – Local Area Network – Metropolitan Area Network- Wide Area Network – Personal Area Network - internet – Intranet –firewalls - Network Topology – Bus – Ring – Hybrid – Star.

#### **Unit III:**

Basic Internet Concepts: – Analog and Digital Signals - modems and communication Software, ISDN lines, and Cable Modems - Definition of Internet - The World Wide Web - Connecting to the Internet – Browsing the web – Web browser – Uniform Resource Locator (URL) – E-mail communication - Internet address - Domain Name System – Locating information on the net – Internet Search Engines – Chatting and conferencing on the Internet Online Chatting –Messaging – Usenet Newsgroup.

#### **Unit IV:**

Communications: The practical uses of communications and connectivity - Telephone related communications services - Video/voice communication: Video conferencing and picture phones - online information services - The Internet - Shared resources: Workgroup computing, Electronic Data Interchange, and Intranets - Telecomputing and virtual offices -Electronic gadgets Other than the

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computers: Mobile Office devices – Tablet, Smart Phone – concept of mobilephone and Tablet and their uses – Working with Tablets and Smart Phones such as UC browser, WhatsApp, Maps, Skype.

Unit V:

Information Technology Act: Act 2000 – Background - Salient Features - Digital Signature - Electronic Governance - Regulation of Certifying Authorities - Cyber Laws - Penalties for Offences - Cyber Laws in India: Need for cyber-laws, nature and scope of cyber laws, approaches to cyber laws, cyber – crimes, piracy, Convergence bill, Information Technology Legislation

Unit VI:

E-governance: E-government, Need of E-Governance, E-assistance, E-Democracy, E-Administration, On-line Citizen Services - E-governance implementations: Software and Hardware required for E-governance Implementation, E-governance in a Small Office, Web Portal for E-governance, E-governance for Public utilities, E-governance in a Medium Enterprise, E-governance & Finance.

### **References:**

1. Dennis P.Curtin, Kim dolwy, KunL Awn, Xrhleen morin, Information Technology, the breaking wave, TMH 2000.
2. Stacey C Sawyer, Brain K Williams, Sarah E Hutchinson Using Information Technology – Brief Version A Practical Introduction to Computer and Communications Third Edition, McGraw Hill Companies 2011
3. James O'Brien – Introduction to Information systems. 16<sup>th</sup> edition, 2005.

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## **13 OFFICE AUTOMATION**

### **Objective of the Course:**

- To help the students to understand how to format, edit, and print text documents and prepare for desktop publishing.
- Students will be able to create various documents newsletters, brochures, making document using photographs, charts, presentation, documents, drawings and other graphic images.
- To work with the worksheet and presentation software.

### **Learning Outcomes:**

After completion of the course, students would be able to;

- Know the basics of computers and prepare documents, spreadsheets, make small presentations with audio, video and graphs and would be acquainted with internet.
- create, edit, save and print documents with list tables, header, footer, graphic, spellchecker, mail merge and grammar checker
- Attain the knowledge about spreadsheet with formula, macros spell checker etc.
- go for higher studies such as diploma, bachelors or master's degree in related discipline.

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Unit I:

**MS-Word** -Working with Files – Working with Text – Formatting, Moving, copying and pasting text Styles – Lists – Bulleted and numbered lists, Nested lists, Formatting lists. Table Manipulations. Graphics – Adding clip Art, add an image from a file, editing graphics, Spelling and Grammar, AutoCorrect - Page formatting - Header and footers, page numbers, Protect the Document, Mail Merge, Macros - Creating& Saving web pages, Hyperlinks.

Unit II

**MS-Excel**- Modifying a Worksheet – Moving through cells, adding worksheets, rows and columns Resizing rows and columns, selecting cells, Moving and copying cells, freezing panes - Macros – recording and running. Formatting cells – Formatting toolbar, Dates and times, Auto formatting. Formula and Functions. Linking worksheets - Sorting and Filling, Alternating text and numbers with Auto fill, Auto filling functions. Graphics – Adding clip art, add an image from a file, Charts – Using chart Wizard, Copy a chart to Microsoft Word.

Unit III:

**MS-Power Point** -Create a Presentation from a template- Working with Slides – Insert a new slide, applying a design template, changing slide layouts -Slides: Reordering slides, hide slides, Create a Custom slide show. Adding Content – Resizing a text box, Text box properties, delete a text box - Video and Audio effects, Color Schemes & Backgrounds Adding clip art, adding an image from a file, Save as a web page.

Unit IV:

**MS-Access** - Using Access database wizard, pages and projects. Creating Tables – Create a Table in design view. Datasheet Records – Adding, Editing, deleting records, Adding and deleting columns Resizing rows and columns, finding data in a table & replacing, Print a datasheet. Queries - **MS-Access** Forms – Create a form using the wizard, Create a form in Design View. Form Controls. Sub forms- Create a form and sub form at once, Sub form wizard, Drag and drop method. Reports – Using the wizard, Create in Design View, Printing reports. Importing, Exporting, Linking

Unit V:

**Open Office Writer**: Introduction to Writer application – Working with documents – Formatting documents – Creating and formatting tables – Mail merge - **Open Office Calc**: Introduction to Spreadsheet – Creating worksheet & workbook – Managing workbook - Insert functions and formulas – Creating and printing Charts – Pivot table.

Unit VI:

**Open Office Impress**: Introduction, Creating, Saving Presentation – Master Templates – Slide transition – Linking with MS Power point slides.

**Open Office-Base** – Introduction- Database Concepts – Creating a New Database, Creating Tables, Working with Forms, creating queries - OpenOffice-Base - Creating Reports, Types of Reports, Printing and Printing preview – Working with other databases i.e. MS Access etc.

### REFERENCE BOOKS:

1. Sanjay Saxena, A First Course in Computers (Based on Windows 8 And MS Office 2013) Vikas Publishing 2015.
2. Jennifer fulton, Sherri Kinkoph, and Joe Kraynak, The Big Basics Book of Microsoft Office 1997, PHI, 1998.
3. Laura Acklen et al, Microsoft Office 97 Professional Essentials,EEE Que E&T, PHI (1998).
4. Andy Channelle, Beginning OpenOffice 3, APress 2009
5. R. Gabriel Gurley, A Conceptual Guide to OpenOffice.Org 2 for Windows and Linux

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### **14OFFICE AUTOMATION - LAB**

#### **Objective of the Course:**

- To help the students to understand how to format, edit, and print text documents and prepare for desktop publishing.
- Students will be able to create various documents newsletters, brochures, making document using photographs, charts, presentation, documents, drawings and other graphic images.
- To work with the worksheet and presentation software.

#### **Learning Outcomes:**

Upon successful completion of this assignment, students will be able to:

- Integrate both graphs and tables created in Microsoft Excel into a laboratory report in Microsoft Word.
- Generate equations, sample calculations, and basic diagrams in Microsoft Word.
- Input experimental data into Microsoft Excel.
- Perform calculations in Microsoft Excel using both manually inputting formulas and built-in Functions.
- Generate simple and effective tables and graphs to describe experimental data in Microsoft Excel.
- Properly format and organize a formal laboratory report in Microsoft Word.

#### **Exercises based on MS-Word and Open Office Writer**

- ❖ Working with Text, spell check and grammar
- ❖ Table manipulation
- ❖ Flow chart drawing
- ❖ Mail merge
- ❖ Create organization chart
- ❖ Real-time document preparation (Covering letter, greeting cards, invitation, brochureetc)

#### **Exercises based on MS-Excel and Open Office Calc**

- ❖ Performing arithmetic calculations using worksheet
- ❖ Using functions
- ❖ Using Graphs and charts
- ❖ Sorting and filtering

#### **Exercises based on MS-Power Point and Open Office Impress**

- ❖ Designing slides for real time applications
- ❖ Using image, audio and video effects
- ❖ Using Animation and transition
- ❖ Using Wizard
- ❖ Using template

#### **Exercises based on MS Access and Open Office Base**

Table manipulation

- ❖ Creating, altering and drop tables
- ❖ Inserting values
- ❖ Selecting and calculating values from the table

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- ❖ Real-time application development (employee database, student database etc.,)

### **REFERENCE BOOKS:**

1. Sanjay Saxena, A First Course in Computers (Based on Windows 8 And MS Office 2013) Vikas Publishing 2015.
2. Jennifer fulton, Sherri Kinkoph, and Joe Kraynak, The Big Basics Book of Microsoft Office 1997, PHI, 1998.
3. Laura Acklen et al, Microsoft Office 97 Professional Essentials,EEE Que E&T, PHI (1998).
4. Andy Channelle, Beginning OpenOffice 3, APress 2009
5. R. Gabriel Gurley, A Conceptual Guide to OpenOffice.Org 2 for Windows and Linux

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