



**KAVIKULAGURU KALIDAS SANSKRIT UNIVERSITY,  
RAMTEK**

**Revised Syllabus (From 2017-18)**  
(Approved by Academic Council dt.04-01-2017, item No.20)

**POST GRADUATE DIPLOMA IN COMPUTER APPLICATION  
(PGDCA)**

**Name of Course** : **Post Graduate Diploma in Computer Application**  
**Course Abbreviation** : **PGDCA**  
**Course Type** : **Professional course**  
**Duration of course** : **One year**  
**Eligibility** : **Any graduate**  
**Examination Pattern** : **Yearly only**  
**Medium of Examination** : **English ( For Sanskrit Paper – Medium is Sanskrit ).**  
**Medium of Instructions** : **English**  
**Minimum Passing Marks** : **50 % marks in each paper.**

a) Teaching Scheme per week :

Sr.No	Theory Subjects	Paper	Teaching Scheme / week in Hrs.
1	Sanskrit ( Indian Culture)	I	3
2	Fundamentals of Computer and E-commerce	II	3
3	Programming Skills	III	3
4	Business Management and Accounting	IV	3
5	Information Technology and DBMS	V	3
6	E-commerce, Web Designing and PHP	VI	3
7	Management Information System (MIS)	VII	3
<b>Practical and Project</b>			
1	Practical I : Programming in C	PR-I	3
2	Practical –II : MS-OFFICE and ORACLE	PR-II	3
3	Practical –III : Tally and HTML	PR-III	3
4	Project : Based on Language/Tools covered in Syllabus	PROJ	3
Weekly Total Hours			33

**b) Subjects and Examination Scheme**

Sr.No	Theory Subjects	Paper	Paper Code	Theory Marks ( TM)	Internal Assessment Marks ( IM)	Min. Marks In TH (A)	Min Marks In IM (B)	To Pass Paper (A+B) >=50
1	Sanskrit ( Indian Culture)	I	PGDC AT1	70	30	35	15	50
2	Fundamentals of Computer and E-commerce	II	PGDC AT2	70	30	35	15	50
3	Programming Skills	III	PGDC AT3	70	30	35	15	50
4	Business Management and Accounting	IV	PGDC AT4	70	30	35	15	50
5	Information Technology and DBMS	V	PGDC AT5	70	30	35	15	50
6	Web Designing and PHP	VI	PGDC AT6	70	30	35	15	50
7	MIS and System Design	VII	PGDC AT7	70	30	35	15	50
<b>Practical and Project</b>								
1	<b>Practical I :</b> Programming in C	PR-I	PGDC AP1	100	-	50	-	50
2	<b>Practical II :</b> MS-OFFICE and ORACLE	PR-II	PGDC AP2	100	-	50	-	50
3	<b>Practical –III :</b> TALLY and HTML	PR-III	PGDC AP3	100	-	50	-	50
4	<b>Project :</b> Based on Languages/Tools covered in Syllabi	PRO J	PGDC AP4	100	-	50	-	50

- Duration of one Theory/Practical is 1 Hour.
- TM= Total Marks of that Subject, TH = Theory, PR= Practical, IM = Internal Assessment Mark.
- The division of the 30 marks allotted to **Internal assessment** of theory papers is on the basis of assignment, seminars/ presentations, extra curriculum activities/fieldwork and attendance as determined by the teacher in respective subject and moderated by Head of the Institute/Principal.
- In order **to pass the examination**, an examination shall obtain not less than 50 % Marks in each of the theory Papers and Internal Assignment and each of the Practical and Project separately .
- Practical and Project shall be treated as a separate passing head.

**Paper I : Sanskrit ( Indian Culture )**  
**Paper Code : PGDCAT1**

**UNIT – I**

**Introduction to the Sanskrit Subhashitas.**

Selected 20 Subhashitas from Subhashitanakara by Prof. Veena Ganu.

[ Mangesh prakashan, Shri shantadurganivas, 23, New Ramdaspath, Nagpur -10 ]

**UNIT – II**

**Introduction to Ancient Sanskrit Texts-I**

1. Introduction to the Vedas
2. Introduction to the Upanishads

**UNIT –III**

**Introduction to Ancient Sanskrit Texts-II**

1. Introduction to the Ramayana
2. Introduction to the Mahabharata

**UNIT –IV**

**Introduction to the Indian Sciences –I**

1. Introduction to the Yoga Shastra
2. Introduction to the Ayurveda
3. Introduction to Vastu Shastra

# Paper-II : Fundamentals of Computer and E-Commerce

Paper Code : PGDCAT2

## UNIT – I

**Introduction to Computers** : Block diagram of computer, functioning of computer, generations of computer, classification of computers , characteristics.

**Computer Memory** : primary & secondary, types of primary memory, registers. Storage devices: floppy disk, Hard disk, magnetic tapes, optical disk (CD/ DVD), **solid state storage** (Flash memory cards, pen drive, etc.).

**Input devices**: keyboard, mouse, joystick, light pen, scanners, OCR, MICR, Touch Screen, Bar code reader.

**Output devices**: monitor, printers, classification of printers, impact & non-impact printers, dot matrix, ink jet, laser, thermal printers, plotters.

## UNIT - II

**Data Representation**: Binary, Octal, Hexadecimal, BCD, ASCII , Features and conversions.

**Computer Software**: Types of software, types of languages, compilers & interpreters

**Virus** : Types of Viruses, Anti-Virus, Firewall and Anti-Spy ware Utilities

**Operating Systems** - Concept, need and functions of O.S., Salient features of Dos .Windows, Linux and UNIX operating system.

## UNIT- III

**Computer Communication & Networking Concepts** : Forms of data communication , analogue, digital; Communication channels; MODEM ; Concept of bandwidth;

**Data transmission media** : wire, fibre optics, cable, satellite, microwave; Rate of data transmission. **Types of networking** : Telephone networks, ISDN, LAN, MAN, WAN, and VAN; Networking topology, OSI Model .

**Internet** : Brief history and development of internet, www **Internet architecture**- servers, browsers, URL, **service providers** - shell account, TCP/IP , **Internet applications** : Email, education, financial services.

## UNIT – IV

**Introduction to E-Commerce** : Definition, Benefits of E-Commerce, Impact of E-Commerce on business models, Traditional Commerce Vs E-Commerce, Advantages and Disadvantages of E-commerce.

**Concept of e-commerce** : e-banking, e-shopping, e-advertising and e-governance.

### **Books Recommended:**

1. I.T. TODAY (ENCYCLOPEDIA) BY S. JAISWAL (TEST BOOK)
2. COMPUTER TODAY BY DONALD SENDERS
3. COMPUTER APPLICATIONS IN MANAGEMENT – USHA DAHIYA,SAPNA NAGPAL(TAXMANN'S)
4. INFORMATION TECHNOLOGY -DR. SUSHILA MADAN (TAXMANN'S)
5. UNDERSTANDING COMPUTER BY DINESHKUMAR
6. COMPUTER FUNDAMENTALS BY P. K. SINHA
7. OFFICE AUTOMATION BY K.K. BAJAJ (MACMILAN)
8. BUSINESS ON THE NET AN INTRODUCTION TO THE WHATS AND HOWS OF E-COMMERCE BY K. N. AGARWA LA & OTHERS (MACMILAN)
9. ELECTRONIC COMMERCE GREENSTEIN AND FEINMAN (TMH)
10. E-COMMERCE :BHUSHAN DEAN –S. CHAND
11. FUNDAMENTALS OF COMPUTERS – ITL EDUCATION SOLUTIONS LTD. (PEARSON)

## **Paper - III : Programming Skills**

### **Paper Code : PGDCAT3**

#### **UNIT – I**

**Programming Logic** : Problem Analysis, Process Analysis, Conceptual Development of solution. **Development Tools** : Algorithm & Flowchart , **Translator** : Interpreter, Compiler .

**Introduction to C** : History of c, C-Character Set and Keyboards, Constants and Variables, Data types, Type Casting, Type Modification

**Operators and Expressions** : Arithmetic, Relational, Logical Assignment, Ternary, Bit wise and Increment and Decrement Operator,

**Input / Output statements in C.**

#### **Unit - II**

**Control Statement** : If, If...Else, While, Do....While, for, goto, switch...case, break, continue, exit statement.

**Arrays** : Array Definition, One dimensional array, two dimensional array, searching, sorting, inserting, deletion, processing on arrays, working with two dimensional array,

**Storage Class** : Automatic, Register, Static, External Storage Class.

#### **UNIT – III**

**String Handling functions.:** strlen(), strcat(), strcpy(), strrev(), strcmp(),strupr(),strlwr().

**Function** : Library functions, user defined functions, function prototype, types of user defined function use of void, functions without value and reference ,function with call by value function and arrays , recursion.

**Structure and Union** : Introduction to structure and union, Declaration, initializing structure, accessing structure elements, array of structure, nested structure, function and structure, Comparison of structure and union.

## Unit –IV

**Pointers** : Introduction to pointers, Arithmetic operations on pointer variables. Pointer with array. Pointer with structure, Function call by value and call by reference. Dynamic memory allocation : malloc(), calloc(), realloc(),

**File Processing** : Introduction, sequential and random access files, opening and closing files, file opening modes, text mode, binary mode, Creation and reading of files, **Character input/output** : getchar(), putchar(), getch(), putch(), **string input and output** : scanf(), sprintf(), gets(), puts(). **File input/output** : fprintf(), fscanf(), getc(), putc(), getw(), putw(), **Block read/write**: fread(), fwrite(), ftell(), fseek(), Pre-processor directive commands (File inclusion) and command line argument.

### *Books Recommended:*

1. Introduction Tech. Concepts by Dr. Madhulika Jain, Shashank & Satish Jain (BPB)
2. COMPUTER PROGRAMMING IN C BY V RAJARAMAN (PHI)
3. Programming in ANSI C – By E. Balagurusami.
4. Let us C – By Y Kanetkar (BPB)
5. C in Depth – by S. K. Shrivastava (BPB)
6. EXPLORING ‘C’ BY KANETKAR

## **Paper –IV : Business Management and Accounting** **Paper Code : PGDCAT4**

### Unit -I

**Principles of Management** : Concept of Management : Role and Importance , Management – Art, science & profession ; Process of decision-making : Controlling, Decision-Making, Leadership and Communication. Fundamental areas of Management – Finance, HR , Marketing , & Production.

### Unit-II

**Introduction to Financial Accounting** : Introduction to Accounting, Advantages of accounting, Books of accounts, Classification of Accounts, Accounting process in double entry accounting system- Journal entry, Ledge accounts, Trial Balance, Final Accounts of individuals and limited company.

**Introduction to Management Accounting** : Meaning and Role of Management Accounting, Ratio Analysis, Working Capitals- meaning, concept and estimation; Break Even Analysis- Nature, Scope , Uses and Importance, Preparation of Flexible Budget.

### Unit III

**Accounting Software's ( Tally )** : Accounting Software's Introduction to Tally Software, Advantages of Computerised Accounting , Features of Tally Screen, Company information, Creating new Company, Gateway, Selection of Company, selection of Options, Buttons at Gateway, Working with multiple Companies, Company Features, create new group, creation of primary group. Normal and advance information, Ledger Accounts, cost categories, Cost Centres. Configuration -General, Numeric Symbols, Voucher Entry, Creation of Voucher Screen, invoice Order Entry, types of Voucher, Selection of Voucher types, Post Dated Voucher, printing of Vouchers, Cheque Printing, advance Features of account Voucher.

### Unit IV

**Inventory info:** Features of Inventory info. Configure - Inventory Info, balance Sheet, Audit Trail, Ratio Analysis. Display-Accounting Report Display, Inventory report Display, and MIS Report Display. Printing Reports, Export, Export of Data. Maintenance-Bank Reconciliation, House Keeping, Data Maintenance. Security -Users and Password, Security Controls, Types of Security and Tally Audit.

***Books Recommended:***

1. Principle of Management – V.P. Michel
2. Management Accounting – S.P. Gupta
3. Accounting Principles: Anthony R.N. and J.S. Richard, Irwin Inc.
4. Advanced Accountancy By P.C. Tulsian, Tata McGraw HILL Publication.
5. Advances Accounts Vol -I: M.C. Shukla, T.S.Grewal and S.G,Gupta, S.Chand & Company, Delhi.
6. Accounting with Tally : K.K. Nadhani, BPB Publication
7. Tally Tutorial : K.K. Nadhani and A.K. Nadhani, BPB Publication.
8. Tally By S.B. Kishor (Dasganu)



# **Paper V : Information Technology and DBMS**

## **Paper Code : PGDCAT5**

### **Unit –I**

**Word Processing:** Introduction, Starting word, Creating document, Structure of Ms-word window and its application, Mouse & keyboard operations, designing a document; formatting-selection, cut, copy, paste, Toolbars, operating on text; Printing, Saving, Opening, Closing of document; creating a template; Tables, borders, textbox operations; Spelling and Grammar check, Protection of document, Mail merge: Envelope and Label, Change the view of document.

### **Unit-II**

**Spreadsheet Package:** Introduction To Ms-Excel, Navigating, Excel Toolbars and Operations, formatting Features- Copying Data Between Worksheets; Entering and Editing Cell Entries, Creation of Charts, Editing and Formatting Charts, Goal Seek, Linking, Workbook, Database in Excel (Auto Filter, Advanced Filter, Sort, Form), Mathematical, Statistical and Financial Functions in Ms-Excel.

### **Unit-III**

**PowerPoint Presentation :** Working with PowerPoint Window, Standard Toolbar, Formatting Toolbar, Drawing Toolbar, Moving the Frame, Inserting Clip Art, Picture, Slide; Text Styling, Send to Back, Entering Data to Graph, Organisation Chart, Table, Design Template, Master Slide, Animation Setting, Saving and Presentation, Auto Content Wizard.

### **Unit-IV**

**Database :** Introduction to Data Base Management System, DBMS vs RDBMS, Database Administrator (DBA) and its role.

**Introduction to Microsoft Access :** Ms-access Database Objects, data types , creating a database in access, using database wizards and blank database, creating table, database view and design view, creating queries, forms, reports and macros in ms-access.

**ORACLE :** Introduction to SQL, Benefits of SQL, Operators , data types , SQL commands such as DDL, DML, DCL and TCL.

***Books Recommended:***

1. It Today (Encyclopedia)– S. Jaiswal
2. A First Course In Computers– Sanjay Saxena
3. First Text Book On Information Technology – Srikant Patnaik
4. Guide To Microsoft Access – Carl Townsend
5. An Introduction to Database Management System – Bipin C. Desai (Galgotia Pub.)
6. Database Management Design– CSV Murthy ( Himalaya)
7. Simplified Approach to ORACLE – Parteek Bhatiya, Ranjit Singh ( Kalyani Publishers)

# Paper VI : Web Designing and PHP

## Paper Code : PGDCAT6

### Unit – I

**Introduction to E-Commerce** : Concept, Definition, Electronic Commerce and the Trade Cycle. **Electronic Market** - concept of E-commerce , Usage, Advantages and Disadvantages and its future.

**Creating Static Web Pages with HTML**: Introduction, Designing web site, Advantages and Disadvantages of HTML, Flow of Web Information, Role of Web Browser and Web Server, Process of Web Publishing, Creating a Simple Static Web Page : About HTML, Basic elements : <html>, <head>, <title>, <p>, <br>, <h1> to <h6>, <ol>, <ul>, <li>, <dl>, <pre>, <marquee>, <hr>, Physical and Logical tags **Path** : Relative and Absolute path, Comments, Special Characters, Text Formatting tags, <center> Adding Links, Images, Background and Table : Hyperlinks <a href ...>, Creating links to web pages and URLs, Creating links within the same page, various types of URLs that can be used in links, Image tag and their related attributes, Inline images, Links to (external) images, Using Inline images, Using images as hyperlinks, Popular images formats for internet and HTML.

**Tables** : Basic table tags and their related attributes.

### Unit –II :

**Frames and Embedding Multimedia** : Frames, Image Map and Web Font Creator : Frames and their creation, the <Frame> and <Frameset> tags, Frame linking, Floating or Inline Frames, Image Maps <map> and <area> tags, Client – Side and Server –Side image maps. Form designs, Form Controls, Text controls, password fields, radio buttons, checkboxes, reset and submit buttons, form control selection, option processing and text area. Connectivity with Oracle or Access.

**Embedding Multimedia** : Introduction, Embedding Multimedia, Inserting sound/audio formats, video file formats.

### Unit – III

**Cascading Style Sheets (CSS)** - Defining style sheets, features, adding style to document, Linking to a single sheet, Embedding style sheet, Using inline style, Style sheet properties, Font properties, Color and Background properties, Text properties, Box properties.

**XML** : Introduction, XML and SGML, Design goals of XML, Application of XML: Document Application, Data Application, XML Software : Browsers, Editors, Parsers, Processor, XML tags, Structure of XML documents, XML element tags, Element markup, Attribute markup, HTML Document , adding scripts, Data types in XML , XML Namespaces :

Qualified name and Unqualified names, Namespace scope, default name space, working with text and font : Font, Font Size, font style, text alignment, text indent, line height, color and Background Properties : Foreground color, Background color, Border color, Background image,

**Working with DTD** : Introduction, HTML and DTD, Benefits of the DTD, Structure of DTD, Declarations of variable in DTD : Element name, Occurrence indicators, Connectors.

## **Unit – IV :**

**PHP** : Introduction to PHP, PHP installations , PHP syntax , Variables , Constants , Data types, Operators and Expressions , PHP control flow statement :Conditional and Loop statements , Switch statement , Break and Continue.

**PHP functions** : Arithmetic , String , Library , Date and Time functions

### ***Books Recommended:***

1. Electronic Commerce Greenstein and Feinman (TMH)
2. Complete HTML : BPB
3. XML :Xavier (TMH)
4. Dynamic HTML by O'RELLY (SPD)
5. BEGINNING PHP AND MYSQL , FOURTH EDITION BY JASON GILMORE
6. Beginning PHP, Apache, MySQL Web Development

## **Paper VII : MIS and System Design** **Paper Code : PGDCAT7**

### **UNIT- I**

**Management Information Systems: An Overview** - Introduction, Need for Management Information Systems, Management Information Systems: A Concept, MIS: A definition, Management Information System and Information Technology, Nature and Scope of MIS, MIS Characteristics, Structure of MIS, Types of MIS, Role of MIS in Global Business.

**Information System and Organization Concepts** - Introduction: A definition, Types of Information, Information Quality, Dimensions of Information, System: A definition, Kinds of Systems, System -related Concepts, Elements of a System, Information System, Organization : A Concept, Impact of Information System on Organization.

## UNIT -II

**The System Development Life Cycle** - Introduction, System Development Life Cycle, Considerations for the Candidate System, Prototyping.

**The Role Of System Analyst-** Introduction, Definition, Role Of The Analyst, The Analyst/User Interface, The Place Of The Analyst In The MIS Organization.

. **Information Gathering Tools** : Information Gathering Tools with their Advantages and Disadvantages. **The Tools Of Structured Analysis-** Introduction, The Tools Of Structured Analysis. **Feasibility Study-** Introduction, System Performance Definition, Feasibility Study.

## UNIT- III

**System Design- Phases of System Design-** Introduction, The Process Of Design, Design Methodologies. **Input/output And Forms Design-** Introduction, Input Design, Output Design, Forms Design. **File Organization** - Introduction, File Structure, File Organizations.

## UNIT- IV

**System Implementation- System Testing And Quality Assurance-** Introduction, necessity of Testing, The Test Plan, types of testing , Quality Assurance, **Implementation And Software Maintenance-** Introduction, Conversion, Software Maintenance Security and privacy. **Hardware/ Software Selection** - Introduction, The Computer Industry, The Software Industry, A Procedure For Hardware/ Software Selection, Financial Considerations In Selection.

### ***Books Recommended:***

1. Waman S. Jawadekar, Management Information Systems, McGraw-Hill
2. Elias Awad, System Analysis and Design, Galgotia
3. Jeffrey L Whitten, Lonnie D Bentley, System Analysis and Design Methods, McGraw-Hill.
4. Edward, System analysis and Design, McGraw-Hill.
5. Hawryskiwyez, Fundamentals of System analysis and Design, PHI.
6. Vinod Garg, Workbook on System analysis and Design, PHI.

**Practical –I**  
**Programming in C**  
**Paper code : PGDCAP1**

Prepare a list of 20 practical's . Practical list should cover all FOUR Units of Paper–III .

**Practical –II**  
**MS-OFFICE and ORACLE**  
**Paper code : PGDCAP2**

Prepare a list of 20 practical's. 14 practical's on MS-Office and 6 Practical's on ORACLE. Practical list should cover all FOUR Units of Paper –V .

**Practical –III**  
**Tally and HTML**  
**Paper code : PGDCAP3**

Prepare a list of 10 practical's on **Tally** ( Unit III & IV of Paper IV) and 10 practical's on **Web Designing** ( Based on All Units of Paper VI)  
Prepare at least 20 Practical's by covering topics of all units.

**Project**  
**Paper code : PGDCAP4**

Project Documentation and report to be prepare as per the guide lines given in Appendix- B.

## QUESTION PAPER PATTERN

**Time 3 Hrs.**

**Total Marks : 70**

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N.B.)

- a) All Questions are compulsory.
- b) All Questions carry equal marks. (*Fourteen each*)

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**NOTE:**

*Answers should be not more than 300 words for 3 ½ marks questions, 500 words for 7 marks question and 800 words for 14 marks questions respectively.*

- Q. 1**
- a) Unit –I ( 7 Marks )
  - b) Unit –I ( 7 Marks )
- OR
- c) Unit-I ( 14 Marks )

- Q.2**
- a) Unit –II ( 7 Marks )
  - b) Unit –II ( 7 Marks )
- OR
- c) Unit-II ( 14 Marks )

- Q. 3**
- a) Unit –III ( 7 Marks )
  - b) Unit –III ( 7 Marks )
- OR
- c) Unit-III ( 14 Marks )

- Q. 4**
- a) Unit –IV ( 7 Marks )
  - b) Unit –IV ( 7 Marks )
- OR
- c) Unit-IV ( 14 Marks )

**Q5.** Attempt the followings

- a) Unit-I ( 3 ½ Marks)
- b) Unit-II ( 3 ½ Marks)
- c) Unit-III ( 3 ½ Marks)
- d) Unit-IV ( 3 ½ Marks)

## **(a) Practical and Classification of Marks on Practical**

### **Practical I : Programming in C**

Prepare a list of 20 practical's. Practical list should cover all FOUR Units of Paper–III .

### **Practical II : MS-OFFICE and ORACLE**

Prepare a list of 20 practical's. Practical list should cover all FOUR Units of Paper –V

### **Practical III : Tally and HTML**

Prepare a list of 10 practical's on **Tally** (Unit III & IV of Paper IV) and

10 practical's on **Web Designing** (Based on All Units of Paper VI)

### **❖ Classification of Practical Marks :**

<b>Particulars</b>	<b>Marks</b>
Practical Record and Internal Assessment	20 Marks
Practical : P <sub>1</sub> - with (Algorithm, Flowchart), Coding , <b>Execution and print of output</b> and P <sub>2</sub> - ( Algorithm, Flowchart Coding / Analysis)	40 Marks
Viva-voce ( internal and external examiner to be conducted at the time of Practical/project examination )	20 Marks
Total Marks for each practical/project Paper	100 Marks

1. Practical exam shall be of 3 hours duration.
2. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department.
3. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.
4. After Viva-Voce and evaluation of practical records of a student by the Internal & External Examiner, both examiners should sign on the certificate of practical records.
5. The certificate template shall be as follows:

**Name of the college / Institution**

**Name of the Department:**

## **CERTIFICATE**

This is to certify that Mr./Mrs./Ms. \_\_\_\_\_  
of class PGDCA has satisfactorily completed the practical experiments prescribed by  
Kavikulguru Kalidas Sanskrit University, Ramtek, Nagpur for the subject  
\_\_\_\_\_ during the academic year \_\_\_\_\_.

Signature

**Practical In-charge**

Signature

**Head of the Department**

Signature

**Internal Examiner**

Signature

**External Examiner**

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

### **(b) Project and Classification of Marks on Project**

#### **Project :**

- ❖ Project is compulsory for each student appearing to P.G.D.C.A. Examination.
- ❖ Students to be prepare project report individually ( not in group) .
- ❖ The project will carry 100 marks.
- ❖ Project should be based on any of the tools covered in syllabi.
- ❖ Candidate shall submit his/her declaration that the Project is a result of his/her own work and the same has not been previously submitted to any examination of this university or any other university.



- ❖ Two copies of Project Report are to be submitted at the time of examination. (One Copy is to be submitted to the University and college retain other copy.)
- ❖ A candidate shall include in his/ her Project Report, a Certificate from the Guide/ supervisor to the effect that the candidate has satisfactorily completed the project work for not less than one session and that the project work is the result of candidate's own work and is of sufficiently high standard to warrant its presentation for examination.

❖ **Indicative Project Report Formulation.**

1. Title Page.
  2. Certificate Page.
  3. Declaration Page.
  4. Acknowledgment Page.
  5. Index or Content Page.
- (These should not having any Page Numbers).

Documentation should cover following information's.

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- i. Introduction/Objectives.
  - ii. Preliminary System Analysis.
    - Identification of Need.
    - Flaws in Present System.
    - Need Of New System.
  - iii. Project Category.
  - iv. Software Requirement Specification.
  - v. Detailed System Analysis.
    - Numbers of Modules and Process Logic.
    - Data Structures and Tables.
    - System Chart or Structure Chart.
  - vi. System Design.
    - Source Code.
    - Input & Output Screens.
  - vii Validation Checks.
  - viii Implementation, Evaluation and Maintenance.
  - ix Reports.
  - x Future Scope of the project.
- Bibliography.
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**Classification Of Marks on Project :-**

Report & Documentation	50
Viva voice (External)	30
Viva voice (Internal)	20

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**Total Marks** **100**

The marks of Project shall be notified as a whole out of 100 in Foil/C-Foil.

**Project Examination is to be conducted as follows:**

**External Examiner & Internal Examiner (Guide) jointly examine the project and award the marks.**

**=====End=====**

