

HINDI MAHAVIDYALAYA
(AUTONOMOUS & NAAC RE-ACCREDITED)
(Affiliated to Osmania University)
Nallakunta, Hyderabad-44



B.COM.(COMPUTER APPLICATIONS)
I YEAR SEMESTER I & II
DEPARTMENT OF COMMERCE
2020-2021

स्थापना : 1961

हिन्दी महाविद्यालय

(स्वायत्त एवं NAAC-पुनर्मूल्यांकित)
(कला, वाणिज्य, विज्ञान तथा स्नातकोत्तर केन्द्र)
(उस्मानिया विश्वविद्यालय से सम्बद्ध)
नल्लाकुंटा, हैदराबाद - 500 044



Website : www.hindimahavidyalaya.org
E-mail : info@hindimahavidyalaya.org

Hindi Mahavidyalaya
(AUTONOMOUS & NAAC-REACCREDITED)
(Arts, Commerce, Science and P.G. Centre)
(Affiliated to Osmania University)
Nallakunta, Hyderabad - 500 044

Dr. Y. V.Rao, MBA, M.Phil., D.C.R.S., Ph.D.
Principal

दिनांक / Date : 02/11/2020

संदर्भ / Ref. :

BOARD OF STUDIES
DEPARTMENT OF COMMERCE

AGENDA OF THE MEETING

Location: Department of Commerce. O.U , Hyderabad

Notice is hereby given to member of BOS Department of Commerce Hindi Mahavidyalaya that the Board of Studies will hold its meeting to prepare the syllabus and implement the choice based credit system on 2-11-2020 at 1:00 in the committee room. All the members are required to attend the meeting and give their valuable suggestion.

The agenda for the meeting is as follows.

1. Approval of B.Com.(Computer Applications) I Year CBCS(Semester I& Semester II)
2. Approval of Credit System.
3. Approval of Question paper pattern.
4. Any other matter will the permission of chair.

Sarita
Sarita Mantri
Chairperson

Copy to .

1. Prof. V. Appa Rao
2. Prof. Prashanth Atma
3. Mrs. Sukhpreet Giridhar
4. Dr. Jacqueline Paul
5. Sri Vijay Singh
6. Dr. Saroj Jain

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
BOARD OF STUDIES
DEPARTMENT OF COMMERCE
STRUCTURE OF B.COM.(COMPUTER APPLICATIONS)
I YEAR SEMESTER – I/II 2019-20

Sl.No.	Code	Course Title	HPW	Credits	Exam Hrs	Marks
(1)	(2)	(3)	(5)	(6)	(7)	(8)
SEMESTER – I						
1.	ELS1	English (First Language)	4	4		
2.	SLS1	Second Language	4	4		
3.	AECC1	a) Environmental Science/ ✓ b) Basic Computer Skills	2	2	1 ½ hrs	40U+10I
4.	DSC101	Financial Accounting-I	5	5	2½hrs	70U+30I
5.	DSC102	Business Organization and Management	5	5	2½hrs	70U+30I
6.	DSC103	Fundamentals of Information Technology	3T+4P	5	1 ½ hrs	50T+35P + 15I
		Total	27	25		
SEMESTER – II						
7.	ELS2	English (First Language)	4	4		
8.	SLS2	Second Language	4	4		
9.	AECC2	a) Basic Computer Skills/ b) Environmental Science	2	2	1 ½ hrs	40U+10I
10.	DSC201	Financial Accounting-II	5	5	2½hrs	70U+30I
11.	DSC202	Business Laws	5	5	2½hrs	70U+30I
12.	DSC203	Programming with C & C++ <i>Pr, AP & QB Pending 24/2/21</i>	3T+4P	5	1 ½ hrs	50T+35P + 15I
		Total	27	25		

ELS: English Language Skill; SLS: Second Language Skill; AEC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Course; DSC: Discipline Specific Course; DSE: Discipline Specific Elective; GE: Generic Elective; T: Theory; P: Practical; I: Internal Exam C: College Exam: PR: Project Report; VV: Viva Voce Examination.

Sarita
 Mrs. Sarita Mantri
 Chairperson

V. Appa Rao
 Prof. V. Appa Rao
 Member

Prashant
 Prof. Prashant Atma
 Member

Sukhpreet
 Mrs. Sukhpreet Giridhar
 Member

Jacqueline Paul
 Dr. Jacqueline Paul
 Member

B.T. Madhusudan
 Sri B.T. Madhusudan
 Member

Vijay Singh
 Sri Vijay Singh
 Member

Saroj Jain
 Dr. Saroj Jain
 Alumni

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BOARD OF STUDIES DEPARTMENT OF COMMERCE

BOARD OF STUDIES
ACADEMIC YEAR - 2020-21

MINUTES OF BOARD OF STUDIES MEETING

BOS meeting of the Department of Commerce was held on 2-11-2020 at 1:00.

The following members were present

1. Mrs. Sarita Mantri
2. Prof. V. Appa Rao
3. Prof. Prashanth Atma
4. Mrs. Sukhpreet Giridhar
5. Dr. Jacqueline Paul
6. Mr. B.T. Madhusudhan
7. Sri Vijay Singh
8. Dr. Saroj Jain

- Chairperson-BOS
- OU Nominee
- OU Member
- Member
- Member
- Member
- Member
- Alumni

The formal BOS meeting commenced with the chairperson extending a warm welcome to all the members of the BOS. She introduced all the members of the BOS, and after the brief introduction the agenda items listed were taken for discussion.

Resolution No. 1:-

The BOS discussed the B.Com.(Computer Applications) I Year I semester syllabi for all the three compulsory papers and one optional paper(AECC) viz, Environmental Science/Basic Computer Skills, Financial Accounting-I, Business Organisation and Management, Fundamentals of Information Technology.

The BOS discussed the B.Com.(Computers) I Year II semester syllabi for all the I Year II semester syllabi for all the three compulsory papers and one optional paper(AECC) viz, Environmental Science/Basic Computer Skills, Financial Accounting-II, Business Law, Programming with C & C++.

Resolution No. 2:-

The credits under the CBCS was discussed and the BOS accepted the credit system and it was approved.

Resolution No. 3:-

The question paper pattern was discussed and after incorporating the suggestion given by the members the BOS accepted the Question paper pattern and was unanimously resolved by the BOS to implement the question paper pattern.

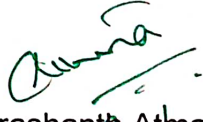
Resolution No. 4:-

It is resolved that the papers AECC1 and AECC2 which carries 50 marks each. The no. of credits are allotted 2 for each.

The meeting ended with a vote of thanks by Sri B.T. Madhusudan members thanked all the members for their valuable suggestion efforts and cooperation.


Sarita Mantri
Chairperson


Prof. W Appa Rao
Member

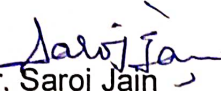

Prof. Prashantha Atha
Member


Mrs. Sukhpreet Giridhar
Member


Dr. Jacqueline Paul
Member


Sri B.T. Madhusudan
Member


Sri Vijay Singh
Member


Dr. Saroj Jain
Alumni

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BOS-DEPARTMENT OF COMMERCE

B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER – I
ABILITY ENHANCEMENT COMPULSORY COURSE-I (A)

BASIC COMPUTER SKILLS (AECC1)

HPW: 2

Exam Hours: 1 ½ Hrs.

40U+10I

Credits: 2

Marks:

Objective: To impart a basic level understanding of working of a computer and its usage.

UNIT I: UNDERSTANDING OF COMPUTER AND WORD PROCESSING:

Knowing computer:What is Computer, Basic Applications of Computer; Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/output Devices, Computer Memory, Concepts of Hardware and Software; Concept of Computing, Data and Information; Applications of IECT; Connecting keyboard, mouse, monitor and printer to CPU and checking power supply.

Operating Computer using GUI Based Operating System:What is an Operating System; Basics of Popular Operating Systems; The User Interface, Using Mouse; Using right Button of the Mouse and Moving Icons on the screen, Use of Common Icons, Status Bar, Using Menu and Menu-selection, Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows; Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.

Understanding Word Processing:Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of worddocument.

UNIT II: SPREAD SHEET, PRESENTATION SOFTWARE & INTRODUCTION TO INTERNET, WWW ANDWEB BROWSERS:

Using Spread Sheet:Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of SpreadSheet.

Basics of presentation software: Creating Presentation; Preparation and Presentation of Slides; Slide Show; Taking printouts of presentation /handouts.

Introduction to Internet, WWW and WebBrowsers:

Introduction to Internet:Basic of Computer networks; LAN, WAN; Concept of Internet; Applications of Internet; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting.

World Wide Web: Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website.

Web Browsing: Software, Communications and collaboration: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging;Netiquettes.

SUGGESTED READINGS:

1. Introduction to Computers, Peter Norton, McGrawHill ,2012.
2. Using Information Technology, Brian K williams, StaceyC.Sawyer, TataMcGrawHill.

WEB RESOURCES:

1. <https://online.stanford.edu/courses/soe-yccscs101-sp-computer-science-101>
2. <https://www.extension.harvard.edu/open-learning-initiative/intensive-introduction-computer-science>.

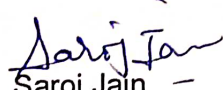

Mrs. Santa Mantri
Chairperson


Mrs. Sukhpreet Giridhar
Member


Sri Vijay Singh
Member


Prof. V. Appa Rao
Member


Dr. Jacqueline Paul
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Prof. Prashanth Atma
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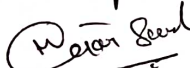

Sri B.T. Madhusudan
Member

SUGGESTED READINGS:


1. Accountancy-I: Haneef and Mukherjee, Tata McGraw Hill Company.
2. Principles & Practice of Accounting: R.L.Gupta&V.K.Gupta, Sultan Chand.
3. Accountancy-I: S.P. Jain & K.L Narang, Kalyani Publishers.
4. Accountancy-I: Tulasian, Tata McGraw Hill Co.
5. Introduction to Accountancy: T.S.Grewal, S.Chand and Co.
6. Advanced Accountancy-I: S.N.Maheshwari&V.L.Maheswari, Vikas.
7. Fundamentals of Financial Accounting: Deepak Sehgil, Tax Mann Publication.
8. Financial Accounting: Jawahar Lal, Himalaya Publishing House.

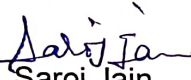

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BOS-DEPARTMENT OF COMMERCE

**B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER – I
DISCIPLINE SPECIFIC COURSE**

BUSINESS ORGANIZATION AND MANAGEMENT

Code: DSC102

HPW: 5

Exam Hours: 2 ½ Hrs.

Credits: 5

Marks: 70U+30I

Objective: *To acquaint the students with the basics of Commerce and Business concepts and functions, forms of Business Organization and functions of Management.*

UNIT-I: INTRODUCTION AND FORMS OF BUSINESS ORGANISATIONS:

Concepts of Business, Trade, Industry and Commerce - Objectives and functions of Business –Social Responsibility of a business - Forms of Business Organization - Meaning, Characteristics, Advantages and Disadvantages of Sole Proprietorship – Meaning, Characteristics, Advantages and Disadvantages of Partnership - Kinds of Partners - Partnership Deed -Concept of Limited liability partnership – Meaning, Characteristics, Advantages and Disadvantages of Hindu Undivided Family – Meaning, Advantages and Disadvantages of Co-Operative Organization.

UNIT-II: JOINT STOCK COMPANY:

Joint Stock Company - Meaning - Definition - Characteristics - Advantages and Disadvantages - Kinds of Companies - Promotion - Stages of Promotion - Promoter - Characteristics - Kinds - Preparation of Important Documents - Memorandum of Association - Clauses - Articles of Association - Contents – Prospectus - Contents – Red herring Prospectus- Statement in lieu of Prospectus (As per Companies Act. 2013).

UNIT-III: INTRODUCTION TO MANAGEMENT AND PLANNING:

Management - Meaning - Characteristics - Functions of Management - Levels of Management – Skills of Management- Scientific Management - Meaning - Definition - Objectives - Criticism – Fayol's 14 Principles of Management. Planning-Meaning - Definition - Characteristics - Types of Plans - Advantages and Disadvantages– Approaches to Planning - Management by Objectives (MBO) - Steps in MBO - Benefits –Weaknesses.

UNIT-IV: ORGANISATION AND COORDINATION:

Definition of Organizing-Organization-Process of Organizing - Principles of Organization - Formal and Informal Organizations - Line, Staff Organizations - Line and Staff Conflicts - Functional Organization - Span of Management - Meaning - Determining Span - Factors influencing the Span of Supervision. Definition, importance, process, and principles of Coordination- techniques of Effective Coordination.

UNIT-V: AUTHORITY, COMMUNICATION AND CONTROL:

Meaning of Authority, Power, responsibility and accountability - Delegation of Authority - Decentralization of Authority ,Communication-Definition-Importance-Types and Process - Control - Meaning - Definition – Relationship between planning and control -Steps in Control – Types (post, current and pre-control) - Requirements for effective control.

SUGGESTED READINGS:

1. Business Organization & Management: Sharma Shashi K. Gupta, Kalyani Publishers
2. Business Organisation & Management: Patrick Anthony, Himalaya Publishing House
3. Business Organization & Management: Dr. Manish Gupta, PBP.
4. Organization & Management: R. D. Agarwal, McGraw Hill.
5. Modern Business Organization: S.A. Sherlekar, V.S. Sherlekar, Himalaya Publishing House
6. Business Organization & Management: C.R. Basu, Tata McGraw Hill
7. Business Organization & Management: M.C. Shukla S.Chand,
8. Business Organisation and Management: D.S. Vittal, S.Chand
9. Organizational Behaviour Text & Cases: V.S.P. Rao, Himalaya Publishing House
10. Business Organization & Management: Uma Shekaram, Tata McGraw Hill
11. Business Organization & Management: Niranjan Reddy & Surya Prakash, Vaagdevi publishers.
12. Business Organisation and Management, Dr. Neeru Vasihth, Tax Mann Publications.

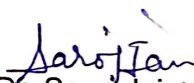

Mrs. Sarita Mantri
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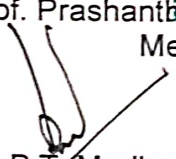

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BOS-DEPARTMENT OF COMMERCE

**B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER – I
DISCIPLINE SPECIFIC COURSE**

FUNDAMENTALS OF INFORMATION TECHNOLOGY

**Code: DSC103
HPW: 6 (4T+2P)
Exam Hours: 1 ½**

**Credits: 5
Marks: 50T+35P+15I**

Objective: *To understand the basic concepts and terminology of information technology and to identify issues related to information security.*

UNIT-I: INTRODUCTION TO COMPUTERS:

Introduction, Definition, Characteristics of computer, Evolution of Computer, Block Diagram Of a computer, Generations of Computer, Classification Of Computers, Applications of Computer, Capabilities and limitations of computer. Role of I/O devices in a computer system.

Input Units: Keyboard, Terminals and its types. Pointing Devices, Scanners and its types, Voice Recognition Systems, Vision Input System, and Touch Screen.

Output Units: Monitors and its types. Printers: Impact Printers and its types. Non-Impact Printers and its types, Plotters, types of plotters, Sound cards, Speakers.

UNIT -II: COMPUTER ARITHMETIC & STORAGE FUNDAMENTALS:

Binary, Binary Arithmetic, Number System: Positional & Non Positional, Binary, Octal, Decimal, Hexadecimal, Converting from one number system to another. Primary Vs Secondary Storage, Data storage & retrieval methods. Primary Storage: RAM ROM, PROM, EPROM, EEPROM. Secondary Storage: Magnetic Tapes, Magnetic Disks. Cartridge tape, hard disks, Floppy disks Optical Disks, Compact Disks, Zip Drive, Flash Drives.

UNIT-III: SOFTWARE:

Software and its needs, Types of S/W.

System Software: Operating System, Utility Programs Programming Language: Machine Language, Assembly Language, High Level Language their advantages & disadvantages. **Application S/W and its types:** Word Processing, Spread Sheets Presentation, Graphics, DBMS s/w.

UNIT-IV: OPERATING SYSTEM:

Functions, Measuring System Performance, Assemblers, Compilers and Interpreters. Batch Processing, Multiprogramming, Multi-Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.


UNIT-V: DATA COMMUNICATION:

Data, Communication, Basic Networking Devices, Communication Process, Data Transmission speed, Communication Types(modes), Data Transmission Medias, Modem and its working, characteristics, Types of Networks, LAN Topologies, Computer Protocols, Concepts relating to networking.

SUGGESTED READINGS:


Computer Fundamentals:P.K.Sinha


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**B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER – II
DISCIPLINE SPECIFIC COURSE**

FINANCIAL ACCOUNTING - II

Code: DSC201

HPW: 5

Exam Hours: 2 ½ Hrs.

Credits: 5

Marks: 70U+30I

Objective: To acquire accounting knowledge of bills of exchange and other business accounting methods.

UNIT-I: DEPRECIATION PROVISION AND RESERVES:

Depreciation (AS-6): Meaning – Causes – Difference between Depreciation, Amortization and Depletion - Objectives of providing for depreciation – Factors affecting depreciation – Accounting Treatment – Methods of depreciation: Straight Line Method - Diminishing Balance Method (Including problems).

UNIT-II: RECTIFICATION OF ERRORS:

Capital and Revenue Expenditure – Capital and Revenue Receipts: Meaning and Differences - Differed Revenue Expenditure. Errors and their Rectification: Types of Errors - Suspense Account – Effect of Errors on Profit. (Including problems).

UNIT-II: CONSIGNMENT ACCOUNTS:

Consignment – Meaning – Features– Proforma invoice - Account sales – Del credere commission-Accounting treatment in the books of the consignor and the consignee - Valuation of consignment stock –Treatment of Normal and abnormal Loss - Invoice of goods at a price higher than the cost price. (Including problems)

UNIT-III: JOINT VENTURE ACCOUNTS:

Joint Venture – Meaning –Features-Difference between Joint Venture and Consignment- Accounting Procedure-Methods of Keeping Records for Joint Venture Accounts-Method of Recording in co-ventures books-Separate Set of Books Method- Joint Bank Account- Memorandum Joint Venture Account (Including problems)

UNIT-V: ACCOUNTING FOR NON-PROFIT ORGANIZATIONS:

Non- Profit Organization – Meaning – Features – Receipts and Payments Account – Income and Expenditure Account – Balance Sheet(Including problems)

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SUGGESTED READINGS:

1. Accountancy-I: Haneef and Mukherjee, Tata McGraw Hill Co.
2. Principles and Practice of Accounting: R.L. Gupta & V.K. Gupta, Sultan Chand & Sons.
3. Accountancy-I: Tulasian, Tata McGraw Hill Co.
4. Accountancy-I: S.P. Jain & K.L. Narang, Kalyani.
5. Advanced Accountancy-I: S.N. Maheshwari & V.L. Maheshwari, Vikas.
6. Advanced Accountancy: M Shrinivas & K Sreelatha Reddy, Himalaya Publishers.
7. Financial Accounting: M.N Arora, Tax Mann Publications.

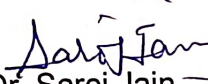

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**BOS-DEPARTMENT OF COMMERCE
B.COM. (COMPUTER APPLICATIONS) I YEAR SEMESTER – II
DISCIPLINE SPECIFIC COURSE**

BUSINESS LAWS

Code: DSC202

HPW: 5

Exam Hours: 2 ½ Hrs.

Credits: 5

Marks: 70C+30I

Objective: To understand basics of contract act, sales of goods act, IPRs and legal provisions applicable for establishment, management and winding up of companies in India.

UNIT-I: INDIAN CONTRACT ACT:

Agreement and contract - Essentials of a valid contract - Types of contracts - Offer and Acceptance - Essentials of valid offer and acceptance - Communication and revocation of offer and acceptance - Consideration definition - Essentials of valid consideration - Modes of Discharge of a contract - Performance of Contracts - Breach of Contract - Remedies for Breach - Significance of Information Technology Act.

UNIT-II: SALE OF GOODS ACT:

Contract of Sale: Essentials of Valid Sale - Sale and Agreement to Sell - Definition and Types of Goods - Conditions and Warranties - Caveat Emptor - Exceptions - Unpaid Seller - Rights of Unpaid Seller.

UNIT-III: INTELLECTUAL PROPERTY RIGHTS:

Trade Marks: Definition - Registration of Trade Marks - Patents: Definition - Kinds of Patents - Transfer of the Patent Rights - Rights of the Patentee - Copy Rights: Definition - Rights of the Copyright Owner - Terms of Copy Right - Copy Rights Infringement - Other Intellectual Property Rights: Trade Secrets - Geographical Indications.

**UNIT-IV: MANAGEMENT OF COMPANIES AND MEETINGS & WINDING UP Of The
COMPANY:**

Director: Qualification - Disqualification - Position - Appointment - Removal - Duties and Liabilities - Loans - Remuneration - Managing Director - Corporate Social Responsibility Corporate Governance. Meeting: Meaning - Requisites - Notice - Proxy - Agenda - Quorum Resolutions - Minutes - Kinds - Shareholder Meetings - Statutory Meeting - Annual General Body Meeting - Extraordinary General Body Meeting - Board Meetings - Meaning Reasons of winding up of company - Types of winding up: compulsory winding up- voluntary winding up- winding up by the tribunal.

UNIT-V: CONSUMER PROTECTION ACT 1986:

Consumer Protection Act 1986: Definitions of Consumer - Person - Goods - Service - Consumer Dispute - Consumer Protection Councils - Consumer Dispute Redressal Agencies - Appeals. Removal of name of the company from Registrar of Companies - Insolvency and Bankruptcy code - 2016.

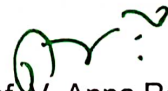
SUGGESTED READINGS:

1. Company Law: ND Kapoor, Sultan Chand and Co.
2. Company Law: Rajashree. -HPH
3. Business Law : Kavitha Krishna, Himalaya Publishing House
4. Business Laws : Dr. B. K. Hussain, Nagalakshmi -PBP
5. Company Law: Prof. G. Krishna Murthy, G. Kavitha, PBP
6. Company Law and Practice: GK Kapoor & Sanjay Dhamija, Taxmann Publication.
7. Company Law: Revised as per Companies Act- 2013: KC Garg et al, Kalyani Publication.
8. Corporate Law: PPS Gogna, SChand.
9. Business Law: D.S. Vital, SChand
10. Company Law: Bagriyal AK, Vikas Publishing House.



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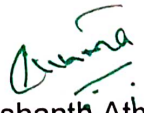

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

BOS-DEPARTMENT OF COMMERCE

B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER – II
DISCIPLINE SPECIFIC COURSE

PROGRAMMING WITH C & C++

Code: DSC203

HPW: 3T+4P

Exam Hours: 3 HRS

Credits: 5

Marks: 50T+35P+15I

Objective: To understand the fundamental concepts of programming in C and Object Oriented Programming using C++.

UNIT-I: INTRODUCTION TO C LANGUAGE, VARIABLES, DATA TYPES AND OPERATORS

Introduction: Types of Languages- History of C language – Basic Structure – Programming Rules – Flow charts-algorithms-Commonly used library functions - Executing the C Program - Pre-processors in "C"- Keywords & Identifiers – Constants – **Variables:** Rules for defining variables - Scope and Life of a Variable— **Data types** - Type Conversion - Formatted Input and Output operations. **Operators:** Introduction – Arithmetic – Relational – Logical – Assignment - Conditional - Special - Bitwise - Increment / Decrement operator.

UNIT-II: WORKING WITH CONTROL STATEMENTS, LOOPS

Conditional statements: Introduction - If statements - If-else statements – nested if-else – break statement-continue statement-go to statement-Switch statements. **Looping statements:** Introduction- While statements – Do-while statements - For Statements-nested loop statements.

UNIT-III: FUNCTIONS, ARRAYS AND STRINGS

Functions: Definition and declaration of functions- Function proto type-return statement- types of functions-formatted and unformatted functions. **Built in functions:** Mathematical functions - String functions - Character functions - Date functions. **User defined functions:** Introduction - Need for user defined functions - Elements of functions – Function call – call by value and call by reference - Recursive functions. **Arrays:** Introduction - Defining an array - Initializing an array –characteristics of an array- One dimensional array – Two dimensional array – Multi dimensional array. **Strings:** Introduction - Declaring and initializing string - Reading and Writing strings - String standard functions.

UNIT-IV: POINTERS, STRUCTURES AND UNIONS

Pointers: Features of pointers- Declaration of Pointers-arithmetic operations with pointers.

Structures: Features of Structures - Declaring and initialization of Structures –Structure within Structure- Array of Structures- Enumerated data type-**Unions**-Definition and advantages of Unions comparison between Structure & Unions.

UNIT-V: OBJECT ORIENTED CONCEPTS USING C++

Object Oriented Programming: Introduction to Object Oriented Programming- Structure of C++ Simple program of C++–Storage Classes-Similarities and Differences between

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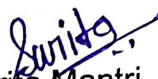
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UNIT-V: OBJECT ORIENTED CONCEPTS USING C++

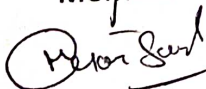
Object Oriented Programming: Introduction to Object Oriented Programming- Structure of C++ Simple program of C++–Storage Classes-Similarities and Differences between

SUGGESTED READINGS:

1. Programming with C& C++ :IndrakantiSekhar, V.V.R.Raman&V.N.Battu, HimalayaPublishers.
2. Programming in ANSI C: Balagurusamy, McGrawHill.
3. Mastering C: K.R. Venugopal, McGrawHill.
4. C: The Complete Reference: H.Schildt, McGrawHill.
5. Let Us C: Y.Kanetkar,BPB.
6. Objected Oriented Programming with C++: E. Balagurusamy, McGrawHill.
7. Mastering C++: KR.Venugopal&R.Buyya, McGrawHill.
8. Schaum's Outlines: Programming with C++: by John RHubbard.
9. Let Us C++: Y.Kanetkar,BPB.

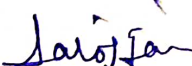

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BOS-DEPARTMENT OF COMMERCE

B.COM.(General) I YEAR SEMESTER – I / II

DISCIPLINE SPECIFIC COURSE(DSC)

DSC- INTERNAL MODEL PAPER

TIME: ½ HOUR

MAX MARKS: 15


MULTIPLE CHOICE QUESTIONS

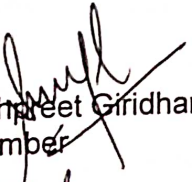
30 x ½ = 15 Marks


THIRTY (30) MCQ ½ MARK EACH

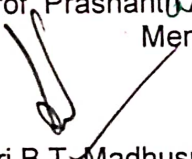

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B.COM.(COMPUTER APPLICATIONS) I YEAR SEMESTER - I / II

ABILITY ENHANCEMENT COMPULSORY COURSE(AECC)

AECC 1 & 2 - INTERNAL MODEL PAPER

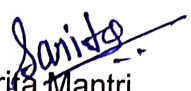
TIME: ½ HOUR


MAX MARKS: 10

MULTIPLE CHOICE QUESTIONS

20 x ½ = 10 Marks

TWENTY (20) MCQ ½ MARK EACH

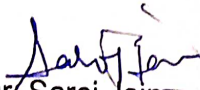

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BOS-DEPARTMENT OF COMMERCE
B.COM.(COMPUTERS) I YEAR SEMESTER - I / II

QUESTION PAPER PATTERN
FOR SEMESTER THEORY EXAMINATIONS
SEMESTER I & II

TIME: 2 ½ HOURS

MAX MARKS: 70

1. Short Questions: Answer 5 questions out of 10 questions 5 x 4=20M
2. Long Questions: Answer all the question with internal choice 5x10=50M

70M

Semester Marks	:	70
Internal Assessment Marks	:	30(20 ¹⁵ +5A+5S+5 ⁵ VV)
Total Marks	:	100

Questions have been taken from all units.

I-Internal Exam, A- Assignment, S- Seminar, VV: Viva Voce Examination

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BOS-DEPARTMENT OF COMMERCE
B.COM.(COMPUTERS) I YEAR SEMESTER – I / II

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- | | |
|---|-----------|
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| | ----- |
| | 70M |
| | ----- |

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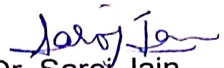

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		SRI ANANTHA RAO Lecturer in Commerce Indira Priyadarshini College for Women, Hyderabad.
		SRI Aanjanaiyulu Lecturer in Commerce Vivekananda Gov Degree College of Commerce, Hyderabad.
2	BUSINESS ORGANIZATION AND MANAGEMENT I - Sem	Ms SAMEERA ARIF Lecturer in Commerce Stanley Degree & P.G. College for Women, Hyderabad.
		SMT. VANDANA SINGH Lecturer in Commerce Stanley Degree & P.G. College for Women, Hyderabad.
		SRI N SRINIVAS Lecturer in Commerce, Pragathi Mahavidyalaya, Hyderabad.
3	FUNDAMENTALS OF INFORMATION TECHNOLOGY	MRS SUNAINA DAS Lecturer in Commerce Stanley Degree & P.G. College for Women, Hyderabad.
		DR. K KIRAN KUMAR Reader in Commerce Badruka College of Commerce, Hyderabad.
		DR. NAGENDRA Reader in Commerce A V College, Hyderabad.
4	BUSINESS LAW	SMT. SUKHPREET GIRIDHAR Head, Department of Commerce Stanley Degree & P.G. College for Women, Hyderabad.
		MRS. RENUBALA Lecturer in Commerce Aurora Degree College, Hyderabad.
		MRS. ARCHANA SHAH PRINCIPAL Radha Krishna Womens College, Hyderabad.
5	PROGRAMMING WITH C & C++	MRS SUNAINA DAS Lecturer in Commerce Stanley Degree & P.G. College for Women, Hyderabad.
		DR. K KIRAN KUMAR Reader in Commerce Badruka College of Commerce, Hyderabad.
		DR. NAGENDRA Reader in Commerce A V College, Hyderabad.

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