

**NAGARJUNA GOVERNMENT COLLEGE,**

**(AUTONOMOUS)**

**NALGONDA**

**[www.ngcnalgonda.org](http://www.ngcnalgonda.org)**

**(Re Accredited by NAAC with “A” Grade)**

**BOARD OF STUDIES MEETING**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**B.COM (COMPUTER APPLICATIONS)**

**2017-18**

# NAGARJUNA GOVERNMENT COLLEGE: NALGONDA

(Autonomous)

## DEPARTMENT OF COMPUTER APPLICATIONS

### B.COM-COMPUTER APPLICATIONS

#### BOARD OF STUDIES

2017-18

Board of Studies in the Department of B.COM – Computer Applications has been constituted with the following members for the year 2017-18.

S.No	Category	Name and Designation
1	University Nominee And Chairman	Dr. R. Rekha Madam Chairman, Board of Studies Mahatma Gandhi University Nalgonda.
2	Chairman Board of Studies Nagarjuna Govt College (Autonomous), Nalgonda	Sri Y V RAMA RAO Department of Computer Applications In-Charge, Dept of Computer Applications, Nagarjuna Govt., College, Nalgonda
3	Subject expert- from outside the college	Sri. Inna Reddy Lecturer in Computer Applications Govt City College, Hyderabad
4	Subject expert- from outside the college	Sri. RAVI Chandra Lecturer in Computer Applications BJR Degree College, Nampally Hyderabad.

REKHA  
LECTURER  
Nagarjuna Govt. College  
(Autonomous) NALGONDA.

Inna Reddy

Ravi Chandra

## MEETING AGENDA

- To consider and approve the syllabus of B.Com (Computer Applications) of I/II/III Years of B.COM (Computer Applications) Course for I to VI semesters during 2017-18.

I,II,III-YEARS (I-VI-Semesters) : Implementation of New CBCS System of Evaluation and Syllabus for 2017-18.

- To consider and approve the introduction of Internal Assessments as specified below:-

- For I,II,III-YEARS (I-VI Semesters) for Each Semester

Evaluation	Marks	Remarks
Total Marks	100-Marks	
Sem-End Marks	70-Marks	
Internal Evaluation	20-Marks	Best of 2-Internals out of 2-Internals
Assignments	5 Marks	
Seminar	5-Marks	
Practical Exam	50-Marks	

- To Consider and Approve the NEW BCOM Computer Applications CBCS Course & Syllabus from the Academic Year 2016-17 and 2017-18.
- To Consider and Approve the OLD CBCS BCOM Computer Applications Course & Syllabus System of Study from the Academic Year 2014-15 onwards.
- To consider and approve the Model Question Papers for 2017-18.
- To consider and approve the List of Examiners for Paper Settings, and Evaluation etc., (3 for each paper) of I to VI Semester during 2017-18.
- To Consider and Approve the General Electives for BCOM-CA Course for various Computer Subjects for 2017-18
- To Consider and Approve the CBCS GRADES for BCOM-CA Course for various Computer Subjects for 2017-18
- To Consider and Approve the Certificate Courses Offered by Department of Computer Applications for 2017-18

*Ravi Chaudhary*

LECTURER  
Karnataka Govt. College  
MANGALGONDA.

*Soma Reddy*

## RESOLUTIONS

The members of Board of studies in Computer Applications Department, For B.COM-COMPUTER APPLICATIONS in N.G.College, Nalgonda met under the chairmanship of Sri Y V RAMA RAO on \_\_\_\_\_ and passed the following resolution.

### AGENDA :

- 1) To Consider and Approve the Syllabus for B.COM I,II,III Years (I, II, III, IV,V &VI Semesters) for 2017-18.
- 2) To Consider and Approve the introduction of Internal Assessment for the students Admitted into I,II & III years degree course during 2017-18.
- 3) To Consider and Approve the Model Question Paper for B.COM I,II,& III Years During the year 2017-18.
- 4) To Consider and Approve the List of Examiners for Paper Setting, Evaluation for B.COM . I,II & III Year (I,II,III,IV, V & VI Semester) during 2017-18
- 5) Any other related academic matters.

### RESOLUTIONS:

1. The Syllabus for B.COM I,II & III years (I,II,III,IV,V&VI Semester) During 2017-18 is Approved Unit Wise.
2. Introduction of Internal Assessment for 30% is approved.
3. The Model Question Papers for B.COM I,II & III year (I,II,III,IV, V&VI Semester) is approved as shown below:

4. It is suggested to include course outcomes for every subject.

*Panichandru*

LECTURER  
Nalgonda Govt. College  
(us) NALGONDA.

*Y V Rama Rao*

## RESOLUTIONS

The following Resolutions were unanimously adopted in the Staff Meeting held on \_\_\_\_\_.

- ❖ To constitute the BOS in the Department conduct the meeting of BOS for the year 2017-18, and submit the resolutions to the Academic Council on or before \_\_\_\_\_.
- ❖ Unitization of Syllabus into V-Units in Each Semester
- ❖ To Conduct the Internals as specified under.

For I,II-Years, Semesters-I/II/III/IV ie for the Year 2014-15, Two Internals were Conducted for 20-Marks each and the Best of two will be consider in Descriptive mode of exam.

For III-Year, ie.for Semesters-V/VI, Two Internals for 7-Marks each will be taken and the best of two will consider.

- ❖ It is compulsory to a student to pass in internal exam and to pass in internal assignment one has 40% marks in each subject/paper
- ❖ **SEMESTER-END Exams:**

Year	Semesters	Semester-End Exam Marks	Practical Exam (Year End)	Remarks
I,II,III-Year	Semesters-I,II,III,IV,V,VI	70-Marks for Each Semester.	50-Marks	

- ❖ To pass end exam one has to get a minimum of 40% of marks in each subject/paper, Assignments, Seminars, & In Internal Evaluations.
- ❖ To conduct I Internal in the Last week of August and II Internal in the Last week of 2017.

*Ravi Chandra*

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Nagarjuna Govt. College  
(Autonomous) GONDA.

*Prasad*

❖ **EVALUATION SYSTEM (Semester Wise)**

YEAR	SEMESTERS	TOTAL MARKS	SEM-END EXAM	INTERNAL ASSESSMENT	ASSIGNMENTS / SEMINAR	PRACTICAL EXAMS
I,II,III-YEAR 2017-18	SEMESTERS I,II,III,IV,V, VI	100 Marks	70 Marks	20 Marks (2-INTERNALS with Average)	ASSIGNMENT 5 MARKS SEMINAR 5 MARKS	50 MARKS

❖ **Question Papers Design:-**

For I,II- Years (for 70- Marks)	2014-15 & 2017-18 Admitted Batch	Very- Short Answer Q.	10x2=20 M	No-Choice
		Short Answer Q.	5x4=20 M	Internal Choice
		Essay/Long Answer Q.	3x10=30 M	3 Out of 5Q
		No. of UNITS of Syllabus	5-Units	

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*Z. M. Reddy*

*Sanichades*

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**NAGARJUNA GOVT. DEGREE COLLEGE, NALGONDA**  
**(AUTONOMOUS)**  
**2017-18**

**INTRODUCTION OF CBCS-CGPA SYSTEM FROM 2014-15 YEAR**  
**(For I,II-Year Students)**

CBCS is a Credit Based Choice System to allocate different Credits for Different Courses along with giving Choices to students to select one or more Electives for various courses (Modules), which is introduced by Commissionerate of Collegiate Education, Hyderabad in 2014-15.


➤ **Tentative Scheme of Evaluation (Semester-Wise)**  
**(For Arts & Commerce)**

Max. Marks	100	
Each END-Semester	70	Semester-Wise
Internal Assessment	20	2-Internals, taking Average
Co-Curricular Activities Assignments	5	Assignments given to students
Co-Curricular Activities Seminar	5	Seminars By Students

➤ **Allocation of Credits:-**

Description	Marks	Credits Assigned
For Core Subject	100 Marks Theory Module/Paper	3 Credits
Core Subject+Practicals	70 M + 30 M	3+1=4 Credits
Project Work	100 M	1 Credit (4 <sup>th</sup> -Sem)
Extra Curricular Activities	NSS/NCC etc.	1 Credit/Year
For Electives	100 M	2 Credits

*Ravi*

  
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*Immatreddy*

*Ravichandru*

➤ ALLOCATION OF CREDITS AT SUBJECT LEVEL

Sno	Subject	MODULE /PAPER	HOURS	MAXMARKS	CREDITS
1	Core Subject	-----	4	100	3
2	CORE	-----	6	100 (70+30)	3
3	CORE	-----	5	100 (70+30)	2
4	CORE	-----	4	100 (70+30)	3

➤ SUBJECT-Wise CGPA Calculation:-

Semester	Paper	Max.Marks (100)	Marks Scores	GS	Credits CR	GP GS X CR
Sem-1	T-I	100	43	4.3	3	12.9
Sem-2	T-II	100	54	8.4	3+1	33.6
	P-I	50	34			
Sem-3	T-III	100	54	5.4	3	16.2
Sem-4	T-IV	100	45	8.7	3+1	34.8
	P-II	50	42			
SEM-5	T-V	100	67	6.7	3	20.1
SEM-6	T-VI	100	65	9.7	3+1	38.8
	P-III	50	32			

GS : Grade Score  
 Credit : No. of Credits to Subject  
 GP ; Grade Points (GP = GS X CRs)

CGPA = Total GP / Total Credits

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**CBCS GRADES /  
CBCS GRADING SYSTEM /  
GRADE SHEETS**

**NAGARJUNA GOVT. DEGREE COLLEGE, NALGONDA**  
**DEPARTMENT OF COMPUTER APPLICATIONS**

**B.COM – COMPUTER APPLICATION**  
**SUBJECT WISE CBCS CREDITS LIST**

**FOR 2017-18 ACADEMIC YEAR**

**[FOR CURRENT YEAR]**

**WITH NEW CBCS & NEW SYLLABUS for I & II - YEARS**

Sno	YEAR/ Semester	Module (Paper)	Hours (HPW)	Max. Marks	Credits
1	I-YEAR / I-SEM Core-1 <b>CBCS-NEW SYLL</b>	Information Technology (IT)	3T+2P Hrs	100 M + 50 M	4
2	I-YEAR / II-SEM Core-2 <b>CBCS-NEW SYLL</b>	Relational Database Management Systems (RDBMS)	3T+2P Hrs	100 M + 50 M	4
3	II-YEAR / III-SEM Core-3  <b>CBCS-NEW SYLL</b>	Programing with C.	3T+2P Hr	100 M + 50 M	4
4	II-YEAR/IV-SEM Core-4 <b>CBCS-NEW SYLL</b>	Objective Oriented Programming with C++	3T+2P Hr	100 M + 50 M	4
5	III-YEAR/V-SEM Core-5 & 6  <b>OLD-SYLL</b>	WEB PROGRAMMING-1 & E-COMMERCE-1	3T+2P Hrs	100 M	5
6	III-YEAR/VI-SEM Core-7 & 8  <b>OLD-SYLL</b>	WEB PROGRAMMING-2 & E-COMMERCE-2	3T+2P Hrs	100 M + 30 M	5
7	SEC-1 SEC-2 SEC-3 SEC-4	PRINCIPLES OF INSURANCE PRACTICE OF LIFE NSURANCE PRACTICE OF GENERAL INSURANCE REGULATION OF INSURANCE BUSINESS	2P Hrs	-	2
	<b>TOTAL CREDITS</b>				

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*Zinnabeddy*

*Saichandru*

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DEPARTMENT OF COMPUTER APPLICATIONS  
(B.COM – COMPUTER APPLICATIONS)

PANEL OF EXAMINERS / PAPER SETTERS

1. Sri K. Someswara Rao  
Bhadruka College  
Hyderabad.

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2. Sri. Inna Reddy  
Lecturer in Computer Applications  
City College,  
Hyderabad
3. Sri. RAVI Chandra  
Lecturer in Computer Applications  
BJR Degree College,  
Nampally  
Hyderabad.

*Ravichandra*

  
LECTURER  
Nagarjuna Govt. College  
(Autonomous) NALGONDA.

*Inna Reddy*

**DEPT.,OF COMPUTER APPLICATIONS (B.COM-COMPUTER APPLICATIONS)**

**Nagarjuna Govt. College: Nalgonda**

**LIST OF EXAMINERS/PAPER SETTER/EVALUATIONS**

No.	Subject Name	Name of the faculty	Cell No.	Address
1	Information Technology (IT)	K. Someshawar Rao	9949495712	Badruka Degree College, Kachiguda, Hyd
		Brinda	9849527036	Wesley College for Women Sec bad
		K Rishitha Reddy	9441421968	A.V College Domalguda Hyd
		Sopan Kashinath	9985286118	Railway Degree College Sec bad
		5. Madhava Reddy	9849815984	Meghana Degree College, Moosarambagh, Hyd
		1. Madhava Reddy	9849815984	Meghana Degree College, Moosarambagh, Hyd
2	Programming with C AND Object Oriented Programming with C++.	2. B Vinod Babu	9848258287	Badruka Degree College, Kachiguda, Hyd
		3. K Rishitha Reddy	9441421968	A.V College Domalguda Hyd
		4. Brindha	9849527036	Wesley College for Women Sec bad
		5. Manga Vani	9849731793	Kasthurba Gandhi College, Marepally, Secabad
		B.Vinod Babu	9848258287	Badruka College Kachiguda Hyd
3	RDBMS	2. Madava Reddy	9849815984	Meghana Degree College, Moosarambagh, Hyd
		3.Prabhusahai		Moosarambagh Hyd LN Guptha College Pathargatti Hyd
		4.Sathanarayana	9866260143	IIMC Khirathabad Hyderabad
		5 Mangavani	9849731793	Kasturbha Gandhi college West Maredpally Hyd
		1. Esther		Wesly College Secbad
4	Web Programming	2. Manga Vani	9849731793	Kasthurba Gandhi College, Marepally, SecabadSecbad
		3. K Rishitha Reddy	9441421968	A.V College Domalguda Hyd
		4. A Sandeep	040-27992458	S.P College Padma Rao Nagar Secbad
		5. Satyanarayana	9866260143	I.I.M.C Khirathabad

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*Raichandru*

*Imma Reddy*

5	E-Commerce	1. Esther		Wesly College Secbad
		2. Manga Vani	9849731793	Kasthurba Gandhi College, Marepally, SecabadSecbad
		3. K Rishtha Reddy	9441421968	A.V College Domalguda Hyd
		4. A Sandeep	040- 27992458	S.P College Padma Rao Nagar Secbad
		5. Satyanarayana	9866260143	I.I M.C Khirathabad

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*Z. M. Reddy*

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*Ravi Chandra*

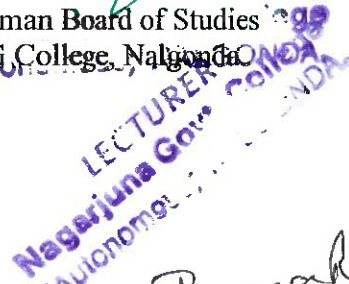
**SIGNATURES**

1. Dr. R. REKHA  
Chairman Board of Studies,  
Department of CSE  
Mahatma Gandhi University  
Nalgonda.

  
Hon'ble Chairman of BOS in University

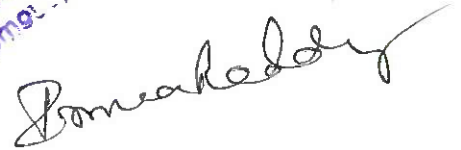
2. Sri Y.V RAMA RAO ,  
I/C., Dept of Computer Applications  
Nagarjuna Govt., Degree College  
Nalgonda.

  
Chairman Board of Studies  
in NG College, Nalgonda

  
LECTURER  
Nagarjuna Govt. Degree College  
Nalgonda

3. Sri Inna Reddy  
Govt CITY College  
Hyderabad

Subject Expert



4. Sri Ravi Chandra  
BJR Govt Degree College  
Nampally, Hyderabad

Subject Expert



**BOS 2017-18**

**DEPARTMENT OF COMPUTER APPLICATIONS  
B.COM – COMPUTER APPLICATIONS**

**SYLLABUS, MODEL QUESTION PAPERS**

## DEPARTMENT OF COMMERCE, O.U.

Structure of B.Com (Computer Application) (CBCS) for Osmania University,  
Hyderabad. (w.e.f. Academic Year 2017-18)

## B.COM (Computer Applications) PROGRAMME

<b>FIRST YEAR:</b>					
<b>SEMESTER-I</b>					
SLNo.	Code	Course Title	Course Type	HPW	Credits
(1)	(2)	(3)	(4)	(5)	(6)
1.	BC101	A/B/C/D	AECC-1	2	2
2.	BC102	English	CC-1A	5	5
3.	BC103	Second Language	CC-2A	5	5
4.	BC104	Financial Accounting - I	DSC-1A	5	5
5.	BC105	Business Economics	DSC-2A	5	5
6.	BC106	Business Organization	DSC-3A	4	4
7.	BC107	Information Technology	DSC-4A	3T+2P	4
		<b>Total</b>		<b>31</b>	<b>30</b>
<b>SEMESTER-II</b>					
8.	BC201	A/B/C/D	AECC-2	2	2
9.	BC202	English	CC-1B	5	5
10.	BC203	Second Language	CC-2B	5	5
11.	BC204	Financial Accounting - II	DSC-1B	5	5
12.	BC205	Managerial Economics	DSC-2B	5	5
13.	BC206	Principles of Management	DSC-3B	4	4
14.	BC207	Relational Database Management Systems	DSE-2B	5	5
		<b>Total</b>		<b>30</b>	<b>30</b>
<b>SECOND YEAR:</b>					
<b>SEMESTER-III</b>					
15.	BC301	Principles of Insurance Business	SEC-1	2	2
16.	BC302	English	CC-1C	5	5
17.	BC303	Second Language	CC-2C	5	5
18.	BC304	Advanced Accounting	DSC-1C	5	5
19.	BC305	Income Tax-I	DSC-2C	5	5
20.	BC306	Business Statistics-I	DSC-3C	4	4
21.	BC307	Programming with C	DSE-2A	5	5
		<b>Total</b>		<b>31</b>	<b>30</b>
<b>SEMESTER-IV</b>					
22.	BC401	Practice of Life Insurance	SEC-2	2	2
23.	BC402	English	CC-1D	5	5
24.	BC403	Second Language	CC-2D	5	5
25.	BC404	Corporate Accounting	DSC-1D	5	5
26.	BC405	Income Tax-II	DSC-2D	5	5
27.	BC406	Business Statistics-II	DSC-3D	4	4
28.	BC407	Objective Oriented Programming with C++	DSE-2A	4T+2P	5
		<b>Total</b>		<b>30</b>	<b>30</b>

*David...*

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*Zmabeddy*



<b>THIRD YEAR:</b>					
<b>SEMESTER-V</b>					
29.	BC501	Practice of General Insurance	SEC-3	2	2
30.	BC502		GE-1	2	2
31.	BC503	Cost Accounting	DSC-1E	4	4
32.	BC504	Business Law	DSC-2E	4	4
33.	BC505	Banking Theory & Practice	DSC-3E	4	4
34.	BC506	Computerised Accounting	DSC-4E	3T+2P	4
35.	BC507	Elective – I	DSE-1A	4T+2P	5
36.	BC508	Elective – II	DSE-2A	4T+2P	5
		<b>Total</b>		<b>33</b>	<b>30</b>
<b>SEMESTER-VI</b>					
37.	BC601	Regulation of Insurance Business	SEC-4	2	2
38.	BC602		GE-2	2	2
39.	BC603	Managerial Accounting	DSC-1F	4	4
40.	BC604	Company Law	DSC-2F	4	4
41.	BC605	Financial Institutions & Markets	DSC-3F	4	4
42.	BC606	Commerce Lab	DSC-4F	2T+4P	4
43.	BC607	Elective – I	DSE-1B	5	5
44.	BC608	Elective - II	DSE-2B	5	5
		<b>Total</b>		<b>32</b>	<b>30</b>
		<b>GRAND TOTAL</b>		<b>187</b>	<b>180</b>

AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Course; DSC: Discipline

Specific Course; DSE: Discipline Specific Elective; GE: Generic Elective; T=Theory; P=Practicals;

### SUMMARY OF CREDITS

Sl. No.	Course Category	No. of Courses	Credits Per Course	Credits
1	AECC	2	2	4
2	SEC	4	2	8
3	CC Language	8	5	40
	DSC	8	5	40
		16	4	64
4	DSE	4	5	20
5	GE	2	2	4
	<b>TOTAL</b>	<b>44</b>		<b>180</b>
	<b>Commerce Total</b>	<b>28</b>		<b>124</b>

Renu

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Tomar Reddy

Saidhade

**SYLLABUS 2017-18**

## EXAMINATIONS PATTERN

### *For all semesters*

Semester End exam	70 Marks
Internal Exam	30 Marks
<b>Total</b>	<b>100 Marks</b>

### Semester Question Paper Pattern

<b>Part-A</b>	<b>Short Questions</b>	<b>(5x4=20)</b>
Five Questions Out of eight (Overall Choice)		
<b>Part-B</b>	<b>Long Questions</b>	<b>(5x10=50)</b>
Five Questions (Internal Choice)		
Two Questions from each unit should be given		

### Internal Paper Pattern

Written Exam	20 Marks
Assignment	5 Marks
Seminar	5 Marks
<b>Total</b>	<b>30 Marks</b>

### Practical Question Paper Pattern (IT)

Practical Exam & Execution	10 Marks
Record	5 Marks
Viva-voice	5 Marks
<b>Total</b>	<b>20 Marks</b>

### Practical Question Paper Pattern for Third year

Practical Exam & Execution	30 Marks
Record	10 Marks
Viva-voice	10 Marks
<b>Total</b>	<b>50 Marks</b>

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*Pranabreddy*

*Pranabreddy*

NAGARJUNA GOVT COLLEGE (AUTONOMOUS), NALGONDA  
DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
I-YEAR I-SEMESTER PAPER-I

INFORMATION TECHNOLOGY (I.T)

B.Com ( Computer Applications ) (CBCS)

Faculty of Commerce,

INFORMATION TECHNOLOGY

Paper: BCO104  
PPW: 6 (4T & 2P)

Max. Marks: 35T + 15P  
Time: 3 Hrs.

**Objective:** to acquire basic knowledge in Information Technology and its applications in the areas of business.

**UNIT-I: INTRODUCTION:**

Introduction to computers - Generations of computers – An overview of computer system - Types of computers - Input & Output Devices. Hardware: Basic components of a computer system - Control unit – ALU - Input/output functions - Memory – RAM – ROM – EPROM - PROM and Other types of memory.

**UNIT-II: OPERATING SYSTEM (OS):**

Meaning - Definition & Functions - Types of OS - Booting process - DOS – Commands (internal & external) - Wild card characters – Virus & Hackers – Cryptography & cryptology Windows: Using the Start Menu –Control Panel – Using multiple windows – Customizing the Desktop – Windows accessories (Preferably latest version of windows or Linux Ubuntu).

**UNIT-III: WORD PROCESSING:**

Application of word processing - Menus & Tool Bars - Word processor – Creating – Entering - Saving & printing the document - Editing & Formatting Text - Mail Merge and Macros (Preferably latest version of MS Word or Libre Office Writer).

**UNIT-IV: SPREAD SHEET:**

Application of work sheet/spread sheet - Menus & Tool bars - Creating a worksheet - Entering and editing of numbers - Cell referencing - Worksheet to analyze data with graphs & Charts. Advanced tools: Functions – Formulae – Formatting numbers - Macros – Sorting- Filtering - Validation & Consolidation of Data (Preferably latest version of MS Excel or Libre Office Calc)

**UNIT-V: POWER POINT PRESENTATION:**

Application of Power Point Presentation – Menus & Tool bars – Creating presentations – Adding - Editing and deleting slides - Templates and manually creating presentation– Slide show  
– Saving - Opening and closing a Presentation –Types of slides - Slide Views - Formatting – Insertion of Objects and Charts in slides - Custom Animation and Transition (Preferably latest version of MS Power Point presentation - Libre Office Impress). Internet & Browsing: Services available on internet – WWW – ISP – Browsers. Multimedia: Application of multimedia – Images – Graphics-Audio and Video – IT security.

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Domalddy

Ravi Chakr

**SUGGESTED READINGS:**

1. Introduction to Computers: Peter Norton, McGraw Hill.
2. Fundamentals of Information Technology: Dr. NVN Chary, Kalyani Publishers.
3. Computer Fundamental: AnithaGoel, Pearson.
4. Information Technology Applications for Business: Dr. S. Sudalaimuthu, Himalaya
5. Introduction to Information Technology: ITL ESL, Pearson.
6. Introduction to Information Technology: V. Rajaraman, PHI.
7. Fundamental of Computers: Balaguruswamy, McGraw Hill.
8. PC Software under Windows: Puneet Kumar, Kalyani Publishers.
9. Information Technology and C language: Rajiv Khanna, New Age International.
10. Fundamentals of Information Technology: Alexis Leon, Vikas Publishing House.
11. Informational Technology: P. Mohan, Himalaya Publishing House.
12. Information Technology: R. Renuka, Vaagdevi Publishers.
13. OS-Linux Spoken Tutorials & Libre Office Spoken Tutorials by IIT Bombay.
14. Fundamentals of Information Technology: Rajiv Midha, Tax Mann Publications.

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*Ravichandru*

NAGARJUNA GOVT COLLEGE (AUTONOMOUS), NALGONDA  
DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
I-YEAR II-SEMESTER PAPER-II

RELATIONAL DATABASE MANAGEMENT (RDBMS)

Paper: BCC606  
PPW: 5 (3T & 2P)

Max. Marks: 35T + 15P  
Exam Duration: 3 Hrs.

*Objectives: to acquire the basic conceptual background necessary to design and develop simple database system, Relational database mode, ER model and distributed databases, and to write good queries using a standard query language called SQL.*

**UNIT-I: BASIC CONCEPTS:**

Database Management System - File based system - Advantages of DBMS over file based system - Database Approach - Logical DBMS Architecture - Three level architecture of DBMS or logical DBMS architecture - Need for three level architecture - Physical DBMS Architecture - Database Administrator (DBA) Functions & Role - Data files indices and Data Dictionary - Types of Database.

Relational and ER Models: Data Models - Relational Model – Domains - Tuple and Relation - Super keys - Candidate keys - Primary keys and foreign key for the Relations - Relational Constraints - Domain Constraint - Key Constraint - Integrity Constraint - Update Operations and Dealing with Constraint Violations - Relational Operations - Entity Relationship (ER) Model – Entities – Attributes – Relationships - More about Entities and Relationships - Defining Relationship for College Database - E-R Diagram - Conversion of E-R Diagram to Relational Database.

**UNIT-II: DATABASE INTEGRITY AND NORMALISATION:**

Relational Database Integrity - The Keys - Referential Integrity - Entity Integrity - Redundancy and Associated Problems – Single Valued Dependencies – Normalisation - Rules of Data Normalisation - The First Normal Form - The Second Normal Form - The Third Normal Form - Boyce Codd Normal Form - Attribute Preservation - Lossless-join Decomposition - Dependency Preservation.

File Organisation : Physical Database Design Issues - Storage of Database on Hard Disks - File Organisation and Its Types - Heap files (Unordered files) - Sequential File Organisation - Indexed (Indexed Sequential) File Organisation - Hashed File Organisation - Types of Indexes - Index and Tree Structure - Multi-key File Organisation - Need for Multiple Access Paths - Multi-list File Organisation - Inverted File Organisation.

**UNIT-III: STRUCTURES QUERY LANGUAGE (SQL):**

Meaning – SQL commands - Data Definition Language - Data Manipulation Language - Data Control Language - Transaction Control Language - Queries using Order by – Where - Group by - Nested Queries.

Joins – Views – Sequences - Indexes and Synonyms - Table Handling.

**UNIT-IV : TRANSACTIONS AND CONCURRENCY MANAGEMENT:**

Transactions - Concurrent Transactions - Locking Protocol - Serialisable Schedules - Locks Two Phase Locking (2PL) - Deadlock and its Prevention - Optimistic Concurrency Control.

Database Recovery and Security: Database Recovery meaning - Kinds of failures - Failure controlling methods - Database errors - Backup & Recovery Techniques - Security & Integrity - Database Security - Authorization.

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## UNIT-V: DISTRIBUTED AND CLIENT SERVER DATABASES:

Need for Distributed Database Systems - Structure of Distributed Database - Advantages and Disadvantages of DDBMS - Advantages of Data Distribution - Disadvantages of Data Distribution - Data Replication - Data Fragmentation.

Client Server Databases: Emergence of Client Server Architecture - Need for Client Server Computing - Structure of Client Server Systems & its advantages.

## LAB: SQL QUERIES BASED ON VARIOUS COMMANDS.

### SUGGESTED READINGS:

Database Systems: R.Elmasri & S.B. Navathe, Pearson.

Introduction to Database Management System: ISRD Group, McGraw Hill.

Database Management System: R.Ramakrishnan & J.Gehrke, McGraw Hill.

Modern Database Management: J.A.Hoffer, V.Rames & H.Topi, Pearson.

Database System Concepts: Silberschatz, Korth & Sudarshan, McGraw Hill.

Simplified Approach to DBMS: Parteek Bhaia, Kalyani Publishers.

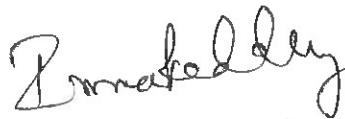
Database Management System: Nirupma Pathak, Himalaya.

Database Management Systems: Pannerselvam, PHI.

Relational Database Management System: Srivastava & Srivastava, New Age

PHPMySQL Spoken Tutorials by IIT Bombay.

Oracle Database: A Beginner **s Guide: I.Abramson, McGraw Hill.**



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**NAGARJUNA GOVT COLLEGE (AUTONOMOUS), NALGONDA  
DEPARTMENT OF COMPUTER APPLICATIONS**

**B.COM – COMPUTER APPLICATIONS  
II-YEAR III-SEMESTER PAPER-III**

**PROGRAMMING WITH C**

Max. Marks: 70T + 30P

PPW: 4 (3T+2P) Exam Duration: 3 Hrs.

*Credits : 4*

*Objective s: To gain the skills of Structured (Procedural/Functional) Programming using C Language.*

**UNIT-I: INTRODUCTION TO C LANGUAGE, DATA TYPES AND I/O OPERATIONS:**

Introduction: Types of Languages – History of C language – Basic Structure – Creating – Compiling - Linking and Executing the C Program - Pre-processors in “C”.

Types and I/O operations: Keywords & Identifiers – Constants – Variables - Scope and Life of a Variable - Data types - Storage classes - Reading a character or values - Writing a character or value - Formatted Input and Output operations.

**UNIT-II: OPERATORS, EXPRESSIONS AND DECISION MAKING:**

Operators: Introduction – Arithmetic – Relational – Logical – Assignment - Conditional - Special operators – Expressions: Arithmetic – Evaluation - Type conversions.

Decision Making & Looping: Introduction - If statements - If-else statements - Switch statements - Conditional statements - While statements - Do statements - For Statements.

**UNIT-III: ARRAYS AND STRINGS:**

Arrays: Introduction - Defining an array - Initializing an array - One dimensional array – Two dimensional array - Dynamic array.

Strings: Introduction - Declaring and initializing string variables - Reading and Writing strings - String handling functions.

**UNIT-IV: BUILT-IN FUNCTIONS AND USER-DEFINED FUNCTIONS:**

Built-in functions: Mathematical functions - String functions - Character functions - Date functions.

User defined functions: Introduction - Need for user defined functions - Elements of functions - Return values and their types - Function declaration - Function calls - Recursive functions.


**UNIT-V: STRUCTURES AND POINTERS:**

Structures: Introduction - Declaring structures variables - Accessing structure members - Functions and Structures - Array of structures - Enumerated Data types - Introduction to Unions.

Pointers: Fundamentals - Understanding pointers - Address - Declaration of Pointers.

**LAB: PROGRAMS USING C.**

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**SUGGESTED READINGS:**

1. Programming in ANSCI C: Balaguruswamy, McGraw Hill.
2. Programming in C: Ashok Kamthane, Pearson.
3. C How to Program: P.J. Deitel & H.M. Deitel, Pearson & PHI.
4. Programming in C: K.S. Kahlon, Kalyani Publishers.
5. Fundamental of C: Dr. N. Guruprasad, Himalaya Publishing House.
6. C: Learning and Building Business and System Applications: Susant Rout, PHI.
7. Mastering C: K.R. Venugopal, McGraw Hill.
8. Programming in C: J.B. Dixit, Firewal Media.
9. The C Programming Language: B.W.Kernighan & D.M.Ritche, PHI.
10. C: The Complete Reference: H.Schildt, McGraw Hill.
11. Let Us C: Y.Kanetkar, BPB.
12. C++ Spoken Tutorials by IIT Bombay

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DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
II-YEAR IV-SEMESTER PAPER-IV

OBJECT ORIENTED PROGRAMMING IN C++

Max. Marks: 70T + 30P

PPW: 4 (3T+2P) Exam Duration: 3 Hrs.

Credits : 4

*Objective: To gain skills of Object Oriented Programming using C++ Language.*

**UNIT-I: INTRODUCTION:**

Object Oriented Programming: Concepts – Benefits – Languages - Structured vs. Object Oriented Programming. C++: Genesis - Structure of a program – Tokens - Data Types – Operators - Control Structures - C vs C++ - Functions.

**UNIT-II: CLASSES, OBJECTS, CONSTRUCTORS AND DESTRUCTORS:**

Encapsulation - Hiding - Abstract data types - Object & Classes – Attributes - Methods - C++ class declaration - State identity and behaviour of an object. Purpose of Constructors - Default Constructor - Parameterized Constructors - Copy Constructor - Instantiation of objects - Default parameter value - Object types - C++ garbage collection - Dynamic memory allocation – Meta class / Abstract classes.

**UNIT-III: OVERLOADING, CONVERSIONS, DERIVED CLASSES AND INHERITANCE:**

Function and Operator Overloading - Overloading Unary and Binary Operators - Data and Type Conversions - Derived Classes - Concept of Reusability - Visibility modes - Types of Inheritance - Single and Multiple Inheritance - Multilevel Inheritance.

**UNIT-IV: POLYMORPHISM, VIRTUAL FUNCTION, STREAMS AND FILES:**

Polymorphism - Virtual - Classes - Pointer to Derived class - Virtual functions - Rules for Virtual function - Pure Virtual functions - Stream Classes - Types of I/O - Formatting Outputs - File Pointers – Buffer - C++ Stream - Unformatted console I/O operations – Functions: get( ) - put( ) – formatted console I/O operations - IOS class format functions - Manipulators.

**UNIT-V: EXCEPTION HANDLING AND DATA STRUCTURES IN C++:**

Exceptions in C++ Programs - Try and Catch Expressions - Exceptions with arguments. Data Structures: Introduction - Linked list - Stacks - Queues.

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**SUGGESTED READINGS:**

1. Object Oriented Programming with C++: E. Balagurusamy, McGraw Hill.
2. C++ Programming-A Practical Approach: Madhusudan Mothe, Pearson.
3. Object Oriented Programming Using C++: Chadha & Chadha, Kalyani.
4. Programming in C++: A. N. Kamthane, Pearson.
5. The Complete Reference C++: H. Schildt, McGraw Hill.
6. C++:How to Program: Deitel & Deitel, PHI.
7. Mastering C++: KR.Venugopal & R.Buyya, McGraw Hill.
8. Schaum's Outlines: Programming with C++: by John R Hubbard.
9. Object Oriented Programming using C++: Somashek

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DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
III-YEAR V-SEMESTER PAPER-V

WEB PROGRAMMING-I

Paper Code: 507-C  
PPW: 4

Time: 2hr 30mts  
Marks: 50

Unit – I

**HTML Programming:**

Introduction – formatting text, forms and formulating elements.

Unit – II

**Graphics HTML:**

Creating tables and frames – Web design principles.

Unit – III

**Dynamic HTML Programming:**

Introduction – Cascading Style Sheets (CSS) – Events handling – changing text and attributes.

Unit – IV

**HTML:**

Dynamically changing styles – text – graphics and placement – creating multimedia effects with filters and transition.

Unit – V

Features and Benefits of HTML editors.

Lab work: DHTML (Dynamic HTML) rule.

**Suggested Readings:**

- 1) Microsoft official curriculum
- 2) Essential XML : Box
- 3) Dynamic HTML : Rule
- 4) HTML for the WWW : Castro

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DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
III-YEAR V-SEMESTER PAPER-VI

E-COMMERCE-1

Paper Code: 503-C  
PPW: 3+2

Time: 2hr 30mts  
Marks:50

UNIT-I

**E-Business and E-Commerce:**

Introduction, Potential Benefits, Limitations, Classifications, Impact of E-Commerce on Business models.

UNIT-II

**E-Commerce Applications:**

Entertainment, E-Marketing, E-Advertising, Search Engines, E-Banking, Mobile Commerce, Online Trading, ELearning, E-Shopping.

UNIT-III

**Architecture Framework of E-Commerce:**

Application Services, Brokerage and Data Management, Interface layers, secure Messaging, Middleware services and network infrastructure.

UNIT-IV

**Security Protocols:**

Open systems interconnection (OSI), TCP/IP, FTP, HTTP, SMTP, S-HTTP, SSL, and NNTP

**Messaging Protocols:** Basic Mail Protocol, Security Enhanced Mail Protocol.

UNIT-V

**Web Security Issues, Encryption Techniques:**

Symmetric and Asymmetric.

**Consumer Oriented E-Commerce Applications, Mercantile Process Model:**

Consumers Perspective and Merchant's Perspective.

**Lab work:** Using Microsoft front-page editor and HTML in Designing a Static (simple) Website.

**Suggested Readings:**

1. E-Commerce: A Managerial Perspective: Micheal change, etc. A1
2. Electronic Commerce – Security: Greenstein & Feinman Risk Management & Control
3. Frontiers of Electronic Commerce: Ravi Kalakota & A.B. Whinston.

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B.COM – COMPUTER APPLICATIONS  
III-YEAR VI-SEMESTER PAPER-VII

WEB PROGRAMMING-II

Paper Code:607-C  
PPW:4

Time: 2hr 30mts  
Marks:50

Unit – I

HTML editors: Front page and dream weaver packages.

Unit - II

VB Scripting: Introduction – VB script – Basics of VB script – array handling – userinteraction VB script.

Unit – III

VB script: Data validation in VB script – handling runtime errors.

Unit – IV

Introduction to visual basic: Getting started with VB – understanding VB projects –code basic variables.

Unit – V

VB designing user interfaces – forms – menus – toolbars – VB debugging tools.

Lab work: HTML for the [www.castro](http://www.castro)

**Suggested Readings:**

- 1) Microsoft official curriculum
- 2) Essential XML : Box
- 3) Dynamic HTML : Rule
- 4) HTML for the WWW : Castro

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DEPARTMENT OF COMPUTER APPLICATIONS

B.COM – COMPUTER APPLICATIONS  
III-YEAR VI-SEMESTER PAPER-VIII

E-Commerce-II

Paper Code: 603-C  
PPW: 3+2

Time: 2hr 30mts  
Marks: 50

UNIT-I

Electronic Payment Systems:

Advantages and risks, Types of Payment System (Credit Cards, E-Cash, Smartcards)

UNIT-II

Electronic Data Interchange: Introduction - Non EDI System, Partial EDI System, Fully

Integrated EDI System, Prerequisites for EDI.

UNIT-III

Issues of EDI: Introduction, Legal issues, Security issues, Privacy issues.

UNIT-IV

E-Marketing Techniques: Marketing Vs. E-marketing – Applications of 5P's (Product, Price, Place, Promotion, People), Search Engines, Directories, Registrations, Solicited targeted E-mails, Interactive sites,

UNIT-V

Promotional Techniques: Banners, Advertising, Spam Mails, E-Mail, Chain letters, E-Advertising, Sponsorships, Portals, Online Coupons.

**Lab work:** Using Microsoft front-page editor and HTML in Designing a Static (simple) Website.

Suggested Readings:

1. E-Commerce: A Managerial Perspective: Micheal change, etc. Al
2. Electronic Commerce – Security: Greenstein & Feinman Risk Management & Control
3. Frontiers of Electronic Commerce: Ravi Kalakota & A.B. Whinston.

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# **B.COM-COMPUTER APPLICATIONS**

## **SKILLS ENHANCED COURSES (II-YEAR, 2-COURSES)**

(Common to All B.Com., Courses)

### **SES-1 & SES-2**

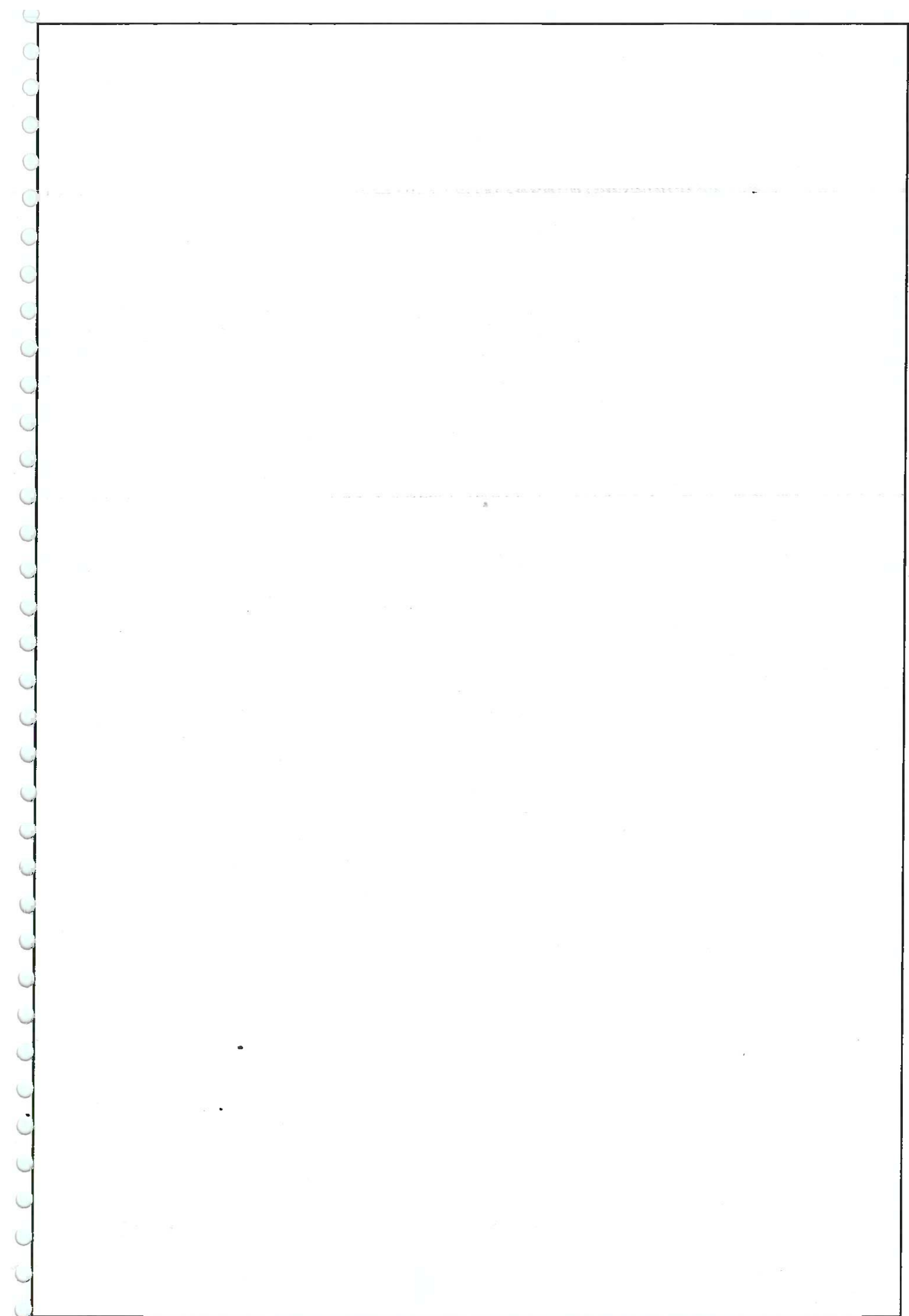
#### **II-YEAR (Semesters-3 & 4)**

**SES-1 : Principles of Insurance**

**AND**

**SES-2 : Practice of Life Insurance**





**MODEL QUESTION PAPERS  
(NEW & OLD CBCS SYSTEMS)**

DEPARTMENT OF COMPUTER APPLICATIONS

B. Com (Computer Applications) I/II/III Year Semester Examinations  
Computer Subjects  
(With effect from 2016-17)

Time:2.30 Hrs  
70 M

Marks:

Part-A

I. Answer the Following Questions.(Short answer Questions)

5X4M=20M

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

Part-B

II. Answer the following Questions.(Essay Questions) 5X10M=50M

9. A) Or  
B)
10. A) Or  
B)
11. A) Or  
B)
12. A) Or  
B)
13. A) Or  
B)

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**MODEL QUESTION PAPER (NEW CBCS SYSTEM)**  
**FOR CBCS-I,II,III YEARS (I,II,III,IV,V,VI-SEMESTERS)**  
**(FOR ALL BATCHES)**

**I/II/III-YEAR B.COM - COMPUTER APPLICATIONS**

Time:2.30 hrs

Max. Marks : 70 M

Credits :

**SECTION-A**

I. Very Short Answer Questions. Answer ALL Questions.

10 x 2 M = 20 M

- |    |     |
|----|-----|
| 1. | 6.  |
| 2. | 7.  |
| 3. | 8.  |
| 4. | 9.  |
| 5. | 10. |

**SECTION-B**

II. Short Answer Questions. Answer ALL Questions.

5 x 4 M = 20 M

1. Q1 OR Q2
2. Q1 OR Q2
3. Q1 OR Q2
4. Q1 OR Q2
5. Q1 OR Q2

**SECTION-C**

III. Long Answer Questions (Essay Type). Answer ANY 3 Questions.

3 x 10 M = 30 M

- 1.
- 2.
- 3.
- 4.
- 5.

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*Ravi Chandra*

**NEW MODEL QUESTION PAPER (FOR 2014-15) BATCH**

**B.COM - COMPUTER APPLICATIONS**

**Time: 2.30 hrs**

**Max. Marks : 70 M**

**Credits :**

**SECTION-A**

**IV. Very Short Answer Questions. Answer ALL Questions.**

**10 x 2 M = 20 M**

- |    |     |
|----|-----|
| 1. | 6.  |
| 2. | 7.  |
| 3. | 8.  |
| 4. | 9.  |
| 5. | 10. |

**SECTION-B**

**V. Short Answer Questions. Answer ALL Questions.**

**5 x 4 M = 20 M**

- |        |    |
|--------|----|
| 6. Q1  |    |
| Q2     | OR |
| 7. Q1  |    |
| Q2     | OR |
| 8. Q1  |    |
| Q2     | OR |
| 9. Q1  |    |
| Q2     | OR |
| 10. Q1 |    |
| Q2     | OR |

**SECTION-C**

**VI. Long Answer Questions (Essay Type). Answer ANY 3 Questions.**

**3 x 10 M = 30 M**

- 1.
- 2.
- 3.
- 4.
- 5.

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**CERTIFICATE COURSES  
(Employability Courses)  
(Three Months)  
In**

**COMPUTER APPLICATIONS DEPARTMENT  
2017-18**

**DEPARTMENT of COMPUTER APPLICATIONS  
NG College, Nalgonda**

**COURSE-1**  
**CERTIFICATE COURSE IN OFFICE AUTOMATION**

PPW : 12 Hrs/Week  
Months

Duration : 4

- **Name of the Programme** : **CERTIFICATE COURSE in OFFICE AUTOMATION**
- **Objectives of the Course** : To make the students acquire the conceptual knowledge in Fundamentals of Computers, MS-Office & TALLY Course.
- **Duration** : 4 Months, Certificate Course. (Daily 3-5 PM)
- **Eligibility** : Any Graduation
- **FEE** : Rs. 750/-
- **Resource Persons Required** : TWO (Computer Faculty + Computer Lab Assistant)
- **Workload: DAILY 2-Hours, Theory + Lab = Total 12 Hours/Week**
- **Syllabus** :
  - **Unit-1: FUNDAMENTALS of COMPUTERS** - Data & Information, Computer Architecture , CPU & Memory Organization, History of Computers, Generation of Computers, Types of Computers, I/O Devices, LAN System & Networks.
  - **Unit-2: Operating Systems** - DOS , Windows.
  - **Unit-3: MS Office** - MS-Word, Ms-Excel, Ms-Power Point, Ms-Access.
  - **Unit-4: Tally** - Accounting Fundamentals, Manual Accounts, Computer Accounting
  - **Unit-5: Internet & HTML** - Fundamentals, Browsing, Creating E-mail Accounts, Sending/Receiving E-mail etc.

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*Praveen Reddy*

**COURSE-2**  
**CERTIFICATE COURSE IN DTP & MS-OFFICE**

**PPW : 12 Hrs/Week**  
**Months**

**Duration : 4**

- **Name of the Programme** : **CERTIFICATE COURSE in DTP & MS-OFFICE (DESKTOP PUBLICATIONS & MS OFFICE)**
- **Objectives of the Course** : To develop the skills in DTP & MS OFFICE Packages.
- **Duration** : 4 Months, Certificate Course. . (Daily 3-5 PM)
- **Eligibility** : Any Graduation
- **FEE** : Rs. 750/-
- **Resource Persons Required** : TWO (Computer Faculty + Computer Lab Asst.,)
- **Workload: DAILY 2-Hours, Theory + Lab = Total 12 Hours/Week**
- **Syllabus** :
  - **Unit-1: DTP (DESKTOP PUBLICATIONS)** - MS Paint, Tool Box, Drawings, Painting in Paint, Text Formation, Inserting Colors.
  - **Unit-2: PAGEMAKER** - Getting Start with PageMaker, Editing Text, Formatting Text, Master Pages, Working with Graphics and Objects, Managing with Page Size, Margin, Orientation, Numbering, Project.
  - **Unit-3: PHOTOSHOP** - Getting start with Photoshop, Working with Images and Color, Making Selections, Painting and Editing Tools, Layers, Filters, Project
  - **Unit-4: MS OFFICE** - MS-WORD, MS-EXCEL
  - **Unit-5:** MS PowerPoint, MS-ACCESS-



**NAGARUNA GOVERNMENT COLLEGE, NALGONDA**  
(AUTONOMOUS) Re-Accredited by NAAC with 'A' Grade  
**MINUTES OF THE MEETING OF BOS IN COMPUTER APPLICATIONS**  
Department HELD ON - -2017

1. Head and Chairman welcomed all the members.
2. Introduction of Choice Based Credit System and semester system in B.Com (Computer Applications) Courses with new syllabus from Academic year 2017-18 was made and got approved.
3. Proposal revised structure for B.Com (Computer Applications) was circulated and got approved to be implemented from Academic year 2017-18.
4. The syllabus for the First, Second, Third, Fourth, Fifth and Sixth semesters, the structure of which was approved by the BOS, is circulated and approved.
5. Model Question paper and patterns of question paper for First, Second, Third, Fourth, Fifth and Sixth semester are approved.
6. Panel of examiners for all papers was framed and approved.
7. Meeting was concluded with vote of thanks.

  
Chair Person

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