



# **BANGALORE UNIVERSITY**

## **BA/BSC SYLLABUS 2014**

**BANGALORE UNIVERSITY  
DEPARTMENT OF PSYCHOLOGY  
Jnanabharathi Campus, Bangalore-560 056.**

DEPARTMENT OF PSYCHOLOGY

The BOS meeting held on 16<sup>th</sup> June 2014 at the department of psychology approved the UG Syllabus. Following is the framework of the syllabus for the six semesters for BA/BSc with psychology as one of the optional subjects.

Semester	Paper Title	Number of units	Number of hours	Number of credits
I	Basic psychological processes I	5	50	2
I	Practicals I		3/week	1
II	Basic psychological processes II	5	50	2
II	Practicals II		3/week	1
III	Child Psychology I Or Developmental Psychology I	5	50	2
III	Practicals III		3/week	1
IV	Child Psychology II Or Developmental Psychology II	5	50	2
IV	Practicals IV		3/week	1
V *	Counseling Psychology I Or Health psychology I Or Social Psychology I Or Industrial & Organizational psychology I Or Educational Psychology I Or Abnormal Psychology I	4	40	2 X 2 = 4
Practical V & Practical VI			3 X 2/week	2
	Counseling Psychology II Or Health psychology II Or Social Psychology II Or Industrial & Organizational psychology II Or Educational Psychology I I Or Abnormal Psychology I I	4	40	2 X 2 = 4
Practical VII & Practical VIII			3 X 2/week	2

**\*V & VI sem any two papers out of the six electives are to be offered.**

**Leadership** – definition and nature, styles of leadership-authoritarian & democratic leaders, Transactional & Transformational leaders.

**Team work** - Life cycle of a team. Team building- need, process & skills.

#### **UNIT-4**

10 hours

#### **STRESS AND COUNSELING**

Definition, Employee Stress, Extreme Products of Stress- Burn-out, Trauma, Workplace Trauma, Workplace Violence, Post-Traumatic Stress Disorder. Causes of Stress- Job Related Causes of stress, Stress& Job Performance, Individual differences in Stress Response. Approaches to Stress Management

**Employee Counseling** –Nature of counseling, Functions of Counseling, Types of Counseling

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## **ABNORMAL PSYCHOLOGY-II**

### **VI Semester- BA/BSC.**

#### **Unit:-1 Personality disorders**

**8 Hours**

Classification-General characteristics and causes. Examples of 3 clusters- Paranoid, Narcissistic and Avoidant personality.

#### **Unit:-2 Schizophrenia and Paranoia**

**10 Hours**

Symptoms, types and general causes

#### **Unit:-3 Mood disorders**

**10 Hours.**

Depressions that are not mood disorder (Normal depression) Unipolar disorder- Dysthymia and Major depressive disorder. Bipolar disorder- Bipolar I and Bipolar II general causes and symptoms; Suicide- factors associated with suicide.

#### **Unit:-4**

**12 Hours.**

**Brain disorders and other cognitive impairments-** Dementia, Delusion, Delirium& Mental retardation-Microcephaly Hydrocephaly, Macrocephaly, Downsyndrome, PKU, Cretinism; AMD Classification.  
Developmental disorders- Dyslexia and Autism.

### **PRACTICALS FOR Semester VI (Practicals VII)**

- 1.Assessment of Guidance needs
- 2.Bell's Adjustment Inventory ( 200 questionnaire)
3. GHQ
4. IPAT Anxiety Scale
5. Team effectiveness scale – Dhar & Dhar.

**Statistics:** Median Test

**Project:** Norms & Validation of Stress Inventory

### **PRACTICALS FOR Semester VI (Practicals VIII)**

- 1.Study of attitudes
- 2.RPM

3. Bhatia's Battery

4. GMA/ Test of General Intelligence of college students by Pall and Misra,

5. Emotional Maturity scale

**Statistics** – Chi-square.

**Project** – Team effectiveness scale – college students – sample size – 10 boys and 10 girls.

## UG SYLLABUS

Sem/ Code	Paper Title	Week/ hour	Duration of Examination	IA Marks	Exam Marks	Total	Credits
<b>I SEMESTER</b>							
CS:1.1	INDRODUCTION TO COMMUNICATION AND MEDIA	04	3hrs	50	100	150	03
<b>II SEMESTR</b>							
CS:2.1	PRINT MEDIA	04	3hrs	50	100	150	03
<b>III SEMESTER</b>							
CS:3.1	AUDIO VISUAL MEDIA	04	3hrs	50	100	150	03
<b>IV SEMESTER</b>							
CS:4.1	MEDIA LAWS	04	3hrs	50	100	150	03
<b>V SEMESTER</b>							
CS:5.1	REPORTING	04	3hrs	50	100	150	03
CS:5.2	EDITING	04	3hrs	50	100	150	03
<b>VI SEMESTER</b>							
CS:6.1	MEDIA MANAGEMENT	04	3hrs	50	100	150	03
CS:6.2	ADVERTISEING AND PUBLIC RELATION	04	3hrs	50	100	150	03
<b>VII SEMESTER</b>							
CS:7.1	MEDIA ISSUES AND DEVELOPMENT	04	3hrs	50	100	150	03
<b>VIII SEMESTER</b>							
CS:8.1	COMMUNICATION THEORIES	04	3hrs	50	100	150	03

## **JOURNALISM (UG) SYLLABUS**

**Semester: 6 Paper: 7 (6.7)**

### **MEDIA MANAGEMENT**

**Theory: 5 Hours/week**

**Total Hours/ semester: 80**

#### **Unit- 1**

Starting of a Newspaper: Structure of a News Paper organization and its operations. Principles of newspaper business: planning .staffing, organization, directing, types of newspaper organization.

#### **Unit- 2**

News papers ownership: types of newspaper ownership in India. Role of circulation and promotion. Public relations for newspaper organization.

#### **Unit- 3**

Problems and prospects of newspaper industry in india, small news papers and their problems, global competition on India media.

#### **Unit-4**

Starting of a TV channel and radio station. Organizational structure of radio and tv studios.

#### **Unit-5**

**Compulsory: study tour**

#### **BOOKS FOR REFFERENCE**

1. Achal Mehra: Newspaper Management in the new multimedia age, Asian mass communication research and information centre(AMIC), Singapore, 1988
2. Rucker & Williams: newspaper organization and management, 5<sup>th</sup> edition, Iowa state pr; 1955
3. Trilok N. Sindhvani: newspaper economics and management, Ankur publishing house,1979
4. Rayudu C.S: Media and communication management, Himalaya publishing House,2011
5. Mocavatt & pringle: Electronic Media Management, stoneham, MA:Focal Press, 1986
6. Arun Bhattacharjee. Indian press- profession to industry, vikas publications, 1972
7. Barngart T.F: Weekly Newspapers Management, Appleton-century-crofts, 1952
8. ©.PÉ.gÀ« ªÄvÄÄÛ ,ÄvÄâ¥ÄæPÄ±ï JA.Dgï., ªÄiÄzsÄâªÄÄ – GzÄâªÄÄ, PÄ£ÄßqÄ ¥ÄÄ,ÄÛPÄ ¥ÄæçüPÄgÄ, "ÉAUÄ¼ÄÆgÄÄ,2008

**JOURNALISM (UG) SYLLABUS**  
**Semester: 10 Paper: 6(6.8)**  
**NEWS WRITING AND REPORTING**

**Theory: 5 Hours/week**

**Total Hours/ semester: 80**

**UNIT-I:**

**NEWS PERSPECTIVES:**

**PRINCIPLES OF NEWS:** changing value of news. News as purposive behaviour; news as propaganda. Are the five W's and 1 H still relevant? Writing for changing time- brief, crisp and to the point; does news have mere informational value or is it a form of knowledge?

**UNIT-II:**

**ROUTINE REPORTING:** A typology of events, accidents, scandals, speeches and covering celebrities; page 3 reporting sunshine stories, court and legislative reporting, press conferences, planted stories and superficial events. Crime and sports stories, interviews.

**UNIT-III:**

**SPECIALISED REPORTING:** in-depth analysis of events and individuals; interpretation of political, scientific, economics, sociological events, covering various movements; investigative reporting, reporting war and conflicts, communal riots and ethical issues (with relevant examples); special reporting; agriculture, drought, floods and other national disasters; covering foreign affairs.

**UNIT-IV:**

**SOURCES OF NEWS:** Traditional sources, media sources, cross media sources including – radio, T.V., and internet. News is what newspaper men make it- gate keeping and news making process; validation of news sources.

**UNIT-V:**

**NEWS REPORTING PROFESSIONALISM:** some constraints defining objectivity, pressures- political, economic and sociological and PR professionals, and spin doctors, intra organizational controls; owner and editor's relationship; professional norms and ethics. Present status of Indian news reporting (with recent examples) as case studies.





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# **BANGALORE UNIVERSITY**

*REVISED SYLLABUS 2014 – 2015*

*B.B.A. (CBCS) DEGREE SEMESTER SCHEME*

*(Revised Syllabus on 15.06.2015 BOS)*

**DEPARTMENT OF COMMERCE**

*Central College Campus, Bangalore – 560 001.*

  
**BANGALORE UNIVERSITY**  
**DEPARTMENT OF COMMERCE**

**REGULATIONS PERTAINING TO B.B.A (CBCS) DEGREE SEMESTER SCHEME 2014 - 15**

**I. OBJECTIVES :**

1. To develop ethical managers with inter disciplinary knowledge'
2. To develop entrepreneurs
3. To prepare students to take the responsibility of full line of Finance function of a company with special reference to SME sector.
4. To prepare students to take the responsibility of full line of Marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of Human Resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems.
7. To develop business analysts for companies, capital markets and commodity markets.
8. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
9. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

**II. ELIGIBILITY FOR ADMISSION :**

Candidates who have completed Two years Pre – University course of Karnataka State or its equivalent are eligible for admission into this course.

**III. DURATION OF THE COURSE:**

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Management (B.B.M). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Management (Hon.) {B.B.M, (Hon.)}.

**IV. MEDIUM OF INSTRUCTION**

The medium of instruction shall be in English.

**V. CLASS ROOM STRENGTH OF STUDENTS**

There shall be Maximum of 60 students in each section.

**VI. ATTENDANCE:**

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.



- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

**VII. COURSE MATRIX**

See Annexure – 1

**VIII. TEACHING AND EVALUATION:**

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

**VIII. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:**

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

**IX. SCHEME OF EXAMINATION:**

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:  
75% to 80% = 02 marks.  
81% to 85% = 03 marks.  
86% to 90% = 04 marks.  
91% to 100% = 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

**X. PROJECT REPORT AND VIVA-VOCE:**

- a) The Project report in the sixth semester carries 100 marks (70 marks for project report and 30 marks for viva – voce) which shall form part of Sixth semester examination.
- b) There shall be single valuation of project report and this will be done simultaneously along with Viva - Voce. Internal Assessment does not carry any marks.
- c) A batch of Two (02) Project Report and Viva – Voce Examiners shall evaluate and conduct Viva - Voce examinations for a maximum of Thirty (30) Project Reports and Conduct Viva – Voce Examinations for

the same candidates.

- d) The principal of the college shall submit the project reports of the students, to the university within three days after the completion of Viva - Voce examination.
- e) Candidate shall obtain a minimum of 40% marks (Including Viva-Voce) in this subject (project Report) failing which he she shall revise and resubmit before the commencement of the next examination. However, no student shall be allowed to resubmit the project report after three consecutive chances.
- f) The student who fails to submit the project report shall not be permitted to take the examination.
- g) The board of examiners or their nominees' shall conduct viva-voce examination for Project Report.

#### **XI. APPEARANCE FOR THE EXAMINATION:**

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.
- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

#### **XII. MINIMUM FOR A PASS:**

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

#### **XIII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
  - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
  - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
  - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

#### **XIV. MEDALS AND PRIZES:**

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize

or any other award.

**XV. TERMS AND CONDITIONS:**

- a) A candidate is allowed to carry all the previous uncleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

**XVI. PATTERN OF QUESTION PAPER:**

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

<b>SECTION-A</b> 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
<b>SECTION -B:</b> 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
<b>SECTION-C:</b> 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
<b>Total</b>		<b>70 Marks</b>

**XVII. PROVISION FOR IMPROVEMENT OF RESULTS:**

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

**XVIII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:**

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

## ANNEXURE – 1

**BANGALORE UNIVERSITY**  
**B.B.A (CBCS) COURSE SEMESTER SCHEME -- 2014 – 15**  
**COURSE MATRIX**

**I SEMESTER**

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu / Malayalam/ Additional English / Marathi / Hindi	1.1	4	3	30	70	100	2
	<b>Language:</b> English	1.2	4	3	30	70	100	2
Part 2 Optional	Fundamentals of Accounting	1.3	4	3	30	70	100	2
	Business Organization and Environment	1.4	4	3	30	70	100	2
	Quantitative Methods for Business - I	1.5	4	3	30	70	100	2
	Management Process	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
<b>Total Credits</b>								<b>15</b>

**II SEMESTER**

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	2.1	4	3	30	70	100	2
	<b>Language:</b> English	2.2	4	3	30	70	100	2
Part 2 Optional	Financial Accounting	2.3	4	3	30	70	100	2
	Quantitative Methods for Business – II	2.4	4	3	30	70	100	2
	Organizational Behavior	2.5	4	3	30	70	100	2
	Production and Operations Management	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
<b>Total Credits</b>								<b>15</b>

### III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 <b>Language</b>	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	3.1	4	3	30	70	100	2
Part 2 <b>Optional</b>	Soft Skills for Business	3.2	4	3	30	70	100	2
	Corporate Accounting	3.3	4	3	30	70	100	2
	Human Resource Management	3.4	4	3	30	70	100	2
	Business Regulations	3.5	4	3	30	70	100	2
	Corporate Environment	3.6	4	3	30	70	100	2
	Business Ethics	3.7	4	3	30	70	100	2
Part 3	SDC*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
<b>Total Credits</b>								<b>17</b>

### IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 <b>Language</b>	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	4.1	4	3	30	70	100	2
Part 2 <b>Optional</b>	Business Research Methods	4.2	4	3	30	70	100	2
	Marketing Management	4.3	4	3	30	70	100	2
	Financial Management	4.4	4	3	30	70	100	2
	Services Management	4.5	4	3	30	70	100	2
	Banking Regulations & Operations	4.6	4	3	30	70	100	2
	Cost Accounting	4.7	4	3	30	70	100	2
Part 3	SDC*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
<b>Total Credits</b>								<b>17</b>

### V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurial Management	5.1	4	3	30	70	100	3
	Computer Applications in Business	5.2	4	3	30	70	100	3
	Investment Management	5.3	4	3	30	70	100	3
	Management Accounting	5.4	4	3	30	70	100	3
	Elective Paper I	5.5	4	3	30	70	100	3
	Elective Paper II	5.6	4	3	30	70	100	3
Part 3	SDC*		3	3	30	70	100	2
<b>Total Credits</b>								<b>20</b>

### VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	International Business	6.1	4	3	30	70	100	3
	E-Business	6.2	4	3	30	70	100	3
	Income Tax	6.3	4	3	30	70	100	3
	Strategic Management Or Project Report & Viva (Voce)	6.4	4	3	30	70	100	3
	Elective Paper III	6.5	4	3	30	70	100	3
	Elective Paper IV	6.6	4	3	30	70	100	3
Part 3	SDC*		3	3	30	70	100	2
<b>Total Credits</b>								<b>20</b>

### ELECTIVE GROUPS

#### 1. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	FN.5.5	Advanced Financial Management	04	100
	FN.5.6	Financial Markets & Services	04	100
VI	FN.6.5	International Finance	04	100
	FN.6.6	Stock and Commodity Markets	04	100

## 2. MARKETING GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	MK.5.5	Consumer Behavior	04	100
	MK.5.6	Advertising & Media Management	04	100
VI	MK.6.5	Brand Management	04	100
	MK.6.6	Retail Management	04	100

## 3. HUMAN RESOURCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	HR.5.5	Employee Welfare & Social Security	04	100
	HR.5.6	Strategic HRM	04	100
VI	HR.6.5	Organizational Change & Development	04	100
	HR.6.6	Compensation Management	04	100

### 1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course\*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in Finance

### 2. Co-and Extra – Curricular Activities (CC& EC\*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

## 6.2 E-BUSINESS

### OBJECTIVE:

The objective is to expose the students to electronic modes of commercial operations.

### UNIT 1 :E-BUSINESS

16Hrs

Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/ Disadvantages of e-commerce, web auctions, virtual communities, portals, e-business revenue models.

### UNIT 2 : SECURITY FOR E-BUSINESS

12 Hrs

Security threats – An area view – implementing E-commerce security – encryption – Decryption, Protecting client computers E-Commerce Communication channels and web servers Encryption, SSL protocol, Firewalls, Cryptography methods, VPNs, protecting, networks, policies and procedures

### UNIT 3 : E-PAYMENTS

12Hrs

E-payment systems – An overview. B to C payments, B to B payments. Types of E- payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, agile wallet, smart cards and digital cheques. Secure Electronic Transaction (SET) protocol

### UNIT 4 : E-BUSINESS MARKETING TECHNOLOGIES

10 Hrs

E-Commerce and marketing B to B and B to C marketing and branding strategies. Web transaction logs, cookies, shopping cart database, DBMS, SQL, data mining, CRM (customer relationship Management) system – permission marketing, affiliate marketing, viral marketing.

### UNIT 5 : CYBER LAWS

06Hrs

Legal Aspects of E-Business, Internet frauds – Cyber Laws. IT Act 2000 salient features.

### SKILL DEVELOPMENT

- Visit Few Business Websites and note down in Practical Record Book

### BOOKS FOR REFERENCE

1. Marriappa M – E- Commerce,
2. R. G. Saha, E-Business, HPH
3. M. Suman – E – Commerce & Accounting
4. Kalakota Ravi and A. B. Whinston : “Frontiers of Electronic Commerce”, Addison
5. Watson R T :“Electronic Commerce – the strategic perspective.” The Dryden press
6. Agarwala K.N and Deeksha Ararwala: “Business on the Net – Whats and Hows of E-Commerce”
7. Agarwala and Ararwala : “Business on the Net – Bridge to the online store front,”
8. Murthy CSV: “E. Commerce” Himalaya Publishing House Pvt.Ltd.



## **6.4 STRATEGIC MANAGEMENT OR PROJECT REPORT AND VIVA - VOCE**

### **OBJECTIVE:**

The Objective of this subject is to expose the students to the various strategic issues such as strategic planning, implementation and evaluation etc. and preparation of project reports.

### **Unit 1: INTRODUCTION TO STRATEGIC MANAGEMENT**

**10 Hrs**

Introduction - Meaning and Definition – Need – Process of Strategic Management – Strategic Decision Making – Business Ethics – Strategic Management.

### **Unit 2: ENVIRONMENTAL APPRAISAL**

**12 Hrs**

The concept of Environment – The Company and its Environment – Scanning the Environment, Technological, Social, Cultural, Demographic, Political, Legal and Other Environments Forces. SWOT Analysis – Competitive Advantage – Value Chain Analysis.

### **Unit 3: STRATEGIC PLANNING**

**12 Hrs**

Strategic Planning Process – Strategic Plans during recession, recovery, boom and depression – Stability Strategy – Expansion Strategy – Merger Strategy – Retrenchment Strategy – Restructure Strategy – Levels of Strategy – Corporate Level Strategy – Business Level Strategy and Functional Level Strategy – Competitive Analysis – Porter’s Five Forces Model.

### **Unit 4: IMPLEMENTATION OF STRATEGY**

**14 Hrs**

Aspects of Strategy Implementation – Project Manipulation – Procedural Implementation – Structural Implementation – Structural Considerations –Organizational Design and Change – Organizational Systems. Behavioral Implementation – Leadership Implementation – Corporate Culture – Corporate Policies and Use of Power. Functional and Operational Implementation – Functional Strategies – Functional Plans and Policies. Financial – Marketing – OPERATIONAL and Personnel dimensions of Functional Plan and Policies – Integration of Functional Plans and Policies.

### **Unit 5: STRATEGY EVALUATION**

**08 Hrs**

Strategy Evaluation and Control - Operational Control - Overview of Management Control – Focus on Key Result Areas.

### **SKILL DEVELOPMENT**

- Present a chart showing Strategic Management Process.
- Select any organization and undertake SWOT analysis.
- Present strategy followed by an FMCG company in Indian Market.
- Select any sector and make competitive analysis using Porter’s five forces model.
- List social responsibility action initiated by any one company.
- Select any organization and identify the Key Result Areas

### **BOOKS FOR REFERENCE**

1. Dr. Aswathappa, Business Environment for Strategic Management, Tata McGraw Hill.
2. Subbarao: Business Policy and Strategic Management, HPH.

# **BANGALORE UNIVERSITY**

## ***REGULATIONS, SCHEME AND SYLLABUS***

*For the course*

I to VI Semesters

## ***BACHELOR OF COMPUTER APPLICATIONS***

***(BCA)***

**(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)**

**Revised w.e.f.**

**Academic Year 2014-2015 and onwards**



**Regulations, Scheme of study and Examination for BCA Degree Course  
Under Choice Based Credit System - Semester System (Y2K14 SCHEME)  
(Revised w.e.f. 2014 -2015)**

- R 1.**
- a) Title of the course: **Bachelor of Computer Applications**
  - b) Duration of the Course: Durations of the undergraduate programmes shall extend over FOUR semesters (TWO academic years) for the Associate Degree(Advance Diploma), SIX semesters (Three academic years) for the regular Bachelor Degree.
  - c). Scheme of study:
    - i)** There shall be five theory papers and two practical from first semester to fourth semester.
    - ii)** There will be five theory, two practical and one project in fifth semester. There will be four theory, one practical and one project in sixth semester.
    - iii)** The project work shall be carried out either independently or jointly (maximum of three students)
    - iv)** Medium of Instruction: The medium of instruction shall be English.
  - d) Scheme of Examination:

At the end of each semester there be University Examination of three hours duration in each of the theory paper/practical.
- R. 2. Each semester shall be of 4 months duration
- R. 3. Attendance: As per Bangalore University regulations In force for science degree courses.
- R. 4. A Candidate is allowed to carry over all the previous uncleared (failed) theory papers/Practical to subsequent semesters as per Bangalore University regulations in force for science degree courses.
- R. 5. The maximum period for completion of the course shall be six years form the date of admission.
- R. 6. Eligibility for admission:
- a) A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka

b) A candidate who has passed JODC / Three years Diploma in Engineering of Government of Karnataka or any other examination considered as equivalent thereto shall be eligible for admission.

a) Any student who has passed PUC –II Science, Arts or Commerce securing a minimum of 35% OF MARKS

OR

b) Any student who has passed JODC or Diploma in Engg. (of three year duration of Govt. of Karnataka) with minimum of 35% of marks in aggregate in all the semester /years.

R. 7. Admission Procedure:

- a) Through Counseling in respective colleges
- b) 50% weight age for entrance test in respective colleges
- c) 50% weight age for performance at qualifying examination.
- d) Merit list shall be prepared based on item No, 7(b) and 7(c)
- e) Reservation: As per the notification /Govt. orders form the University /Govt. from time to time.
- f) Tuition and other fees: As fixed by the University from time to time

R8. The total number of students to be admitted to the course shall be decided by the University.

R9. Results: Results of candidate shall be declared and the classes awarded as per the procedure followed by the University for B.Sc. Courses.

R10. POWER TO REMOVE DIFFICULTIES

1) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may be order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary to expedient to remove the difficulty.

2) Every order made under this shall be subject to rectification by the appropriate University Authorities.

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System  
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
	BCA605P	Project Work	16	100	200	300	6		
	Part - 3	-	Skill Development Course	3	30	70	100	2	

## **BCA605P : PROJECT WORK**

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

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# **BANGALORE UNIVERSITY**

*REVISED SYLLABUS 2014 – 2015*

*B.Com. (CBCS) DEGREE SEMESTER SCHEME*

*(Revised Syllabus on 08.03.2017 BOS)*

**DEPARTMENT OF COMMERCE**

*Central College Campus, Bangalore – 560 001.*



**BANGALORE UNIVERSITY**

**DEPARTMENT OF COMMERCE**

**REGULATIONS PERTAINING TO B.Com (CBCS) DEGREE SEMESTER SCHEME  
2014 - 15**

**I. OBJECTIVES:**

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

**II. ELIGIBILITY FOR ADMISSION:**

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

### **III. DURATION OF THE COURSE:**

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Commerce (Hon.) {B.Com, (Hon.)}.

### **IV. MEDIUM OF INSTRUCTION**

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

### **V. CLASS ROOM STRENGTH OF STUDENTS**

There shall be Maximum of 60 students in each section.

### **VI. ATTENDANCE:**

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

### **VII. COURSE MATRIX**

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

### **VIII. TEACHING AND EVALUATION:**

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

### **VIII. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:**

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

### **IX. SCHEME OF EXAMINATION:**

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:
  - 75% to 80% = 02 marks.
  - 81% to 85% = 03 marks.
  - 86% to 90% = 04 marks.
  - 91% to 100% = 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

### **X. APPEARANCE FOR THE EXAMINATION:**

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.
- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.

c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.

d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

#### **XI. MINIMUM FOR A PASS:**

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

#### **XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:

a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.

b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.

c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.

2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

#### **XIII. MEDALS AND PRIZES:**

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

#### **XIV. TERMS AND CONDITIONS:**

a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.

b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three

immediately succeeding examinations. There shall be no repetition for internal assessment test.

c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

#### **XV. PATTERN OF QUESTION PAPER:**

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours.

The 5

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

<b>SECTION-A</b> <b>1. a,b,c,d,e,f,g,</b>	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
<b>SECTION -B:</b> <b>2,3,4,5,6.</b>	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
<b>SECTION-C:</b> <b>7,8,9,10,11.</b>	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
<b>Total</b>		<b>70 Marks</b>

#### **XVI. PROVISION FOR IMPROVEMENT OF RESULTS:**

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

#### **XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:**

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

**B. COM VOCATIONAL  
TOURISM AND TRAVEL MANAGEMENT SYLLABUS**

**VOCATIONAL PAPER 1**

**1.6 - TOURISM BUSINESS**

**Introduction to Travel, Tourism and Hospitality Management.**

**Chapter I: Introduction**

Meaning and definition of tourism-evolution of tourism nature and importance of tourism, Mass tourism, basic components of tourism, types of tourism domestic and international tourism, positive and negative impacts of tourism - economical, social, cultural, environmental and infrastructural. Tourist definition meaning and importance.

**Chapter II: Attraction**

Tourist destinations and world heritage centres of India.

**Chapter III: Accessibility**

Transport systems -transport and tourism -types of transport -surface transport, air transport and sea transport- luxury trains, Airlines in India, Cruise industry- reservation procedure for Railways and Airways in brief.

**Chapter IV: Accommodation**

Accommodation-meaning- classification -types -primary and secondary- significance of accommodation. Hotels- motels -holiday homes-Youth Hostels, Resorts- Homestay- forest Lodges- budget hotels- star hotels.

Management of hospitality industry- organisational structure, departments in a hotel, functions and responsibilities of front office management-food and beverages- housekeeping, engineering and maintenance, accounts and Finance, personal or HR, types of rooms - building procedure.

**Chapter V - Tourism in India**

Growth and development of tourism in India -role of government- Ministry of Tourism, public sector (ITDC), Tourism in Karnataka, Role of KSTDC, statistics on Indian tourism.

## **1.7 Practical for skill development:**

Record journal to be maintained based on the subject.

- Prepare a report on unexplored destination in India and their potential for tourism promotion.
- Students are required to maintain a newspaper clippings file, detailing the articles pertaining to tourism.

### **BOOKS FOR REFERENCE:**

- AN introduction to travel and tourism Dennis L Foster.
- Christopher J. Hollywood: The Business of tourism: Mcconald and Evans, 1983.
- Tourism management -Stephen J page
- Tourism industry in India-by Tapan k Panda and SitiKantha Mishra
- A.k.Bhatia: Tourism Development, principles and practices- Sterling Publishers (P) Limited New Delhi.
- Ananda MM- Tourism and hotel industry in India: Sterling Publishers (P) Limited New Delhi.
- Kaul.R.H: dynamics of tourism: A trilogy Sterling Publishers (P) Limited New Delhi.
- IITTM: Tourism as an industry -monograph:IITTM, New Delhi,1989.
- Burhat and medlik: Tourism- past,present and future-Heinemann, London.
- Wahab, S.E: Tourism management: Tourism International press,London 1986.
- Bremer, Robert A: Introduction to hotel and restaurant management: hub Publication,co..., Lowe,1984.
- Riccline J.R. Brent: Travel and Tourism hospitality research London, 1982.
- Surinder Aggarwal: travel agency



## VOCATIONAL PAPER II

### 2.5 - TOURISM PRODUCT

#### **Chapter 1: Introduction**

Tourism product -meaning,definition, characteristics. Types of tourism product -natural (land, water, climate)-man made- symbolic. Tourism environment – Geographical components.

#### **Chapter II: Natural tourism products**

Geographical resources- features, landforms, climate, water bodies- flora and fauna (National parks -Wildlife sanctuaries) mountains- islands- beaches -desserts, etc as tourist destinations.

#### **Chapter III: Socio- cultural products**

Art and performing arts of India- painting- dances (classical and folk)- music (Hindustan-Carnatic) Indian musical instruments- handicraft etc as potential tourist resources.

#### **Chapter IV: Fairs and festivals**

Fairs and festivals of India-(social religious and commercial) Tourism promotional fairs and festivals-Hampi, Pattadakal Dance Festival, Snake boat festival, Khajuraho Dance Festival ,Kite Festival, Desert Festival, etc.

#### **Chapter V: Man made tourism product**

Art and architecture in India -various styles. Monuments in India- religious shrines - museums, art galleries.

#### **Chapter VI: Emerging trends in tourism**

Brief introduction on-

- Health Tourism -Medical and Wellness tourism
- Adventure tourism- land based water based and air based
- Rural tourism -Education and sports tourism
- MI CE tourism coastal tourism

## **2.8 Practical for skill development:**

- Record journal to be maintained based on the subject.
- On job training 1 (field study report) students are required to prepare a report on Indian tourism product.
- Students are required to undertake a field tour for a period of two weeks.

### **BOOKS FOR REFERENCE:**

- Percy Brown: Indian architecture Hindu and Buddhist period.
- Dennis.L Foster: An introduction to travel and tourism.
- Tapan.K.panda&Sitikantha Mishra: Tourism industry in India.
- Harle.J.C : The Art & architecture of Indian subcontinent.
- Stephen J page – Tourism management
- Bharatiya Vidya Bhawan:Imperial Unity
- Bharatiya Vidya Bhawan: classical age
- Acharya Ram: Tourism and cultural heritage of India Rosa Publication(Jaipur 1986)
- Basham.A.L: The Wonder That was India: Rupa and comp Delhi 1988
- The Gazette of India: history and culture
- Mukherjee.R.k: The culture and art of India George Allen UnwinLimited London 1959
- Hussain. A.k: The culture of India, national Beek trust New Delhi, 1987
- The Treasure of Indian Museum Marg Publication Bombay

## VOCATIONAL PAPER III

### 3.5 - TRAVEL AGENCY AND TOUR OPERATOR ORGANISITIONS

#### **Chapter I: Introduction**

Travel Agencies – Definition, functions, duties, Types of travel agencies – services and products offered by travel agencies. Modern Travel Agencies.

Tour Operators – Role – functions and types of Tour Operators. Difference between travel agency and tour operator – approval procedure.

#### **Chapter II: Organization Structure**

Organizational structure of Travel Agencies. Procedure to start a travel agency in India – IATA approval. Duties and responsibilities of staff and managers. Functions of travel agents in – customs office – passport office and foreign affairs Ministry. Itinerary development, tour packaging processes, costing and pricing.

#### **Chapter III: Tourist Guides**

Definition – duties and responsibilities – categories – procedure to become a recognized tourist guide.

#### **Chapter IV: Travel Documentation**

Passport – procedure for obtaining a passport in India. Visa – types – procedure. Inbound and out bound regulations. Customs – Airport tax, currency regulations and Health regulations.

#### **Chapter V: Tourism Organizations**

State, National and International Tourism Institutions and organizations – WTO, WTTC, IATA, PATA, etc. ITDC, KSTDC

### **3.8 Practical for Skill Development**

- Record Journal to be maintained based on the subject.
- Students are required to visit a Travel Agency or Tour Operator and prepare a report on it (which should include various functions performed by the travel agency)
- Passport and visa format.

## **BOOKS FOR REFERENCE:**

- Travel Agency Management an Introductory Text by Mohinder Chand.
- An Introduction to travel and tourism – Dennis L Foster
- Tourism Management – Stephan J page
- Tourism industry in India – By – Tapan K Panda and Sitikantha Mishra
- Travel Agents and Tourism: Merissa Jome W
- David H Howel – Principal and methods of scheduling reservations (national publishers)
- Agarwal, Surinder: Travel agency management
- Geo, Chack: Professional Travel agency management: prentice Hall London
- Bhatia A. K.: Tourism Development – principles and policies streling publishers, New Delhi.
- IliamCordve : Travel in India
- The world of travel – national publishers Delhi

## VOCATIONAL PAPER IV

### 4.6 - TOURISM MARKETING

#### **Chapter I: Introduction**

Marketing – Meaning – Definition – Characteristics – Importance classification.

Concepts in service marketing: Needs, Wants, Demand, Product markets.

#### **Chapter II: Marketing in Tourism**

Marketing of Tourism - forecasting tourism demand – market segmentation and positioning – marketing of - Airlines, Hotels, Resorts, Travel Agencies and other tourism related services – challenges and strategies – Tourism marketing mix.

#### **Chapter III: Marketing Research**

Marketing research – meaning – definition – methods and importance of marketing research. Primary data, secondary data, qualitative and quantitative data and marketing information system (MIS) and its functions – Consumer and consumer behaviour, factors influencing the buying behaviour of consumers – market segmentation and bases for segmenting consumers market. Targeting and positioning and market strategies in tourism. Market survey – questionnaire- process of marketing research.

#### **Chapter IV: Marketing Strategies**

Marketing strategies – various marketing strategies in travel and tourism. Developing marketing strategies in tourism – new product development – professionalism – customer satisfaction – branding. Product strategies – pricing considerations – distribution channels. Tour packages – tour brochures – communication and technology in marketing tourism.

#### **4.8 - On the Job Training I**

Field Trip: The students of travel and tourism management shall be required to undertake a field trip (3weeks) to important tourist destination covering at least 8 main centers relating to monuments, wildlife parks, bird sanctuaries and sport centers at their second-year term.

Students are required to submit their field trip report consisting of about 50 typed pages during their practical examination of fourth semester for the evaluation of the internal and external examiner. The report and practical record in viva – voce examination carries 50 marks and shall be evaluated by both internal and external examiners jointly.

#### **4.9 Practical for Skills Developments**

- Students are required to prepare a questionnaire for the visitors on a historical monument
- Students are required to prepare report on marketing strategy to promote a destination product
- Brouchers designing and itinerary planning.

#### **BOOKS FOR REFERNCE:**

- P C Sinha, Tourism Marketing
- An introductory to travel and tourism – Dennis L Foster
- Tourism management – Stephan J Page
- Tourism industry in India – Tapan K Panda Sitikantha Mishra
- Kotler Philips – marketing management – PHI – New Delhi
- Maccarthy D. K. J Basic marketing – a Management approach
- Douglas Foster – travel and tourism management
- Negi M. S. – tourism and hospitality
- Wahab S Grampter, tourism marketing, tourism international press,London
- Stephan F Witt, tourism marketing and management handbook, prentice Hall, New York
- Renal A Nykiel L – marketing in hospital industry (2<sup>nd</sup> ED.) Van Nestrand Reinhold
- Maclean, Hunter, marketing management (tourism in your business) Canadian Hotel and Restaurant ltd.
- Kenneth E Clow and David L Kurtz – services marketing – Biztantra publications.

## VOCATIONAL PAPER V

### 5.1 - ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

#### Chapter I

Entrepreneurship – what is it? Introduction to entrepreneur entrepreneurship and enterprise – importance and relevance of the entrepreneur – factors influencing entrepreneurship – pros and cons of being an entrepreneur – women entrepreneurs, problems and promotion – types of entrepreneurs – characteristics of a successful entrepreneur – competency requirement for entrepreneurs – awareness of self - competency and its development.

#### Chapter II

Small scale industries – small scale industries / tiny industries / ancillary industries / cottage industries – definition, meaning, product range, capital investment, ownership patterns – importance and role played by SSI in the development of the Indian Economy – problems faced by SSI's and the steps taken to solve the problems – policies governing SSI's.

#### Chapter III

Starting a small industry – to understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selections based on personal competencies. An overview of the steps involved in starting a business venture – locations, clearances and permits required, formalities, licensing and registration procedure – assessments of the market for the proposed project – to understand the importance of financial, technical and social feasibility of the project.

#### Chapter IV

Preparing the business plan (BP) – what is a BP? Why is it important? Who prepares it?

Typical BP format

- financial aspects of the BP
- Marketing of the BP
- Human resource aspects of the BP
- Technical aspects of the BP
- Social aspects of the BP
- Preparation of BP – common pitfalls to be avoided in preparation of a BP

## Chapter – V

Implementation of the project – financial assistance through SFC's, SIDBI, commercial banks, KSIDC, IFCI – Non financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KCVIC – financial incentives for SSI's and tax concessions – assistance for obtaining raw material, machinery, land and building and technical assistance – industrial estates role and types.

## Chapter - VI

Sickness in SSI's – meaning and definition of a sick industry – causes of industrial sickness preventive and remedial measures for sick industries.

### 5.7 Practical Skill Development

- Preparation of a project report to start a SSI unit
- Preparing a letter to the concerned authority seeking license to the SS unit, you propose to start
- Format of a business plan
- A report on the survey of SSI units in the region where college is located
- Chart showing financial assistance available to SSI along with the rate of interest
- Chart showing tax concessions to SSI units direct and indirect
- Success stories of entrepreneurs in the region

### 5.8 - On the Job Training II

- The students shall be required to undergo **(6 weeks) practical training by their third-year term in a tourist enterprise** – travel agency – hotel – airlines or Tourism Corporation, duly approved by the head of the institution.
- Students are required to **submit a comprehensive training report** carries 50 marks for the **practical examination of V semester**. The report carries **50 marks** for the practical examination purpose and shall be evaluated by both the internal and external examiners jointly.



## **BOOKS FOR REFERENCE**

- Mark J Dollinger – entrepreneurship – strategies and resources, pearson edition
- Udai Pareek and T V Rao – developing entrepreneurship
- S V S Sharma – developing entrepreneurship, issues and problems
- Srivastava – a practical guide to industrial entrepreneurs
- Government of India – report of the committee on development of small and medium entrepreneurs 1975
- Bharusali – entrepreneurship development
- Vasanth Desai – management of small-scale industries
- Vasanth Desai – problems and prospectus of small – scale industries
- CSV Murthy – entrepreneurship development
- Dr. Anil Kumar S. C. Poornima, MINNI K. Abraham, Jyashree K – entrepreneurial development

## VOCATIOAL PAPER VI

### 6.2 - Tourism Development – Planning and Policies

#### Chapter I: Introduction

General concepts of planning – tourism planning – planning and tourism development – principles of planning – tourism policy – meaning and significance of tourism policy – evolution of tourism policy and principles of tourism policy – tourism planning process – complexities of planning in tourism.

#### Chapter II: Tourism Planning in India

Tourism planning in India – five -year plans and planning for tourism. Role of private and public sector in tourism planning. Development of tourist circuits – national tourism policy – Karnataka state tourism policy – destination development.

#### Chapter III: Tourism Legislation

National action plan 1992. Ancient monuments preservation act – Ancient monuments and Archeological site and Remains act 1972 – wildlife protection act 1972.

#### Chapter IV: Customer Relationship Management

Customer relationship – public relationship and communication for tourism manager – importance of public relations and communication in tourism. Development of communication in tourism in brief.

### 6.7 - Project Report

The students are required to make a project report on a topic under Travel and Tourism in VI semester. The project must be with at least 60 pages excluding annexure. It must be submitted for sixth semester practical examination through a viva voce examination. It carries 50 marks and viva voce carries 50 marks.

### 6.8 – Viva – Voce

### 6.9 – Practical Examination

#### BOOKS AND REFERNCES

- National Eco – tourism and wildlife tourism by Ratandeepsingh
- International Eco – tourism – by Prabhas Chandra
- Tourism industry in India – by Tapan K Panda and Sitikantha Mishra
- Tourism management – Stephan J Page
- Handbook on sustainable tourism – by Praveen Sethi

- National development council report
- National action plan 1992
- Reports – world tourism organization
- Report – workshop on tourism legislation – August 10 – 11,1987, IITTM, New Delhi
- Report – workshop on tourism legislation – February 23- 23, 1988

## APPENDIX – 1

BANGALORE UNIVERSITY  
 DETAILS OF COURSE PATTERN AND SCHEME OF EXAMINATION  
 B Sc, CBCS (semester) SCHEME  
 Subject: **ELECTRONICS**

Semester/ Teaching hours	Title of the Paper	Hours / week		Exam. marks /paper				Duration of Exam. (hours)		Total marks /paper	CREDITS
		Theory	Practical	Theory		Practical		Theory	Practical		
				Exam	I.A	Exam	I.A				
Semester I (56 hours)	Basic Electronics (EL-101T and EL-101P)	4	3	70	30	35	15	3	3	150	1×2+ 1×1= 3
Semester II (56 hours)	Electronic Circuits & Special Purpose devices (EL-201T and EL-201P)	4	3	70	30	35	15	3	3	150	3
Semester III (56 hours)	Linear Integrated Circuits & C Programming (EL-301T and EL-301P)	4	3	70	30	35	15	3	3	150	3
Semester IV (56 hours)	Digital Electronics & Verilog (EL-401T and EL-401P)	4	3	70	30	35	15	3	3	150	3
Semester V (42 +42 hours)	Communication I (EL-501T and EL-501P)	3	3	70	30	35	15	3	3	150	1×2+ 1×1= 3
	Microprocessors & Instrumentation (EL-502T and EL-502P)	3	3	70	30	35	15	3	3	150	3
Semester VI (42 +42 hours)	Communication II (EL-601T and EL-601P)	3	3	70	30	35	15	3	3	150	3
	Microcontrollers (EL-602T and EL-602P)	3	3	70	30	35	15	3	3	150	3

**Note:** Internal assessment marks will be based on attendance, assignment & tests.

In addition to this, internal assessment marks may be awarded marks for the report submitted by the students towards industrial visits /field visits/study tour in the 5<sup>th</sup> or 6<sup>th</sup> semester.

**UNIT 5:****04 hours****PIC microcontrollers**

Core features of PIC microcontrollers, overview of various PIC microcontroller series.  
PIC 16F877A-features, pin diagram, I/O ports, interfacing with LCD.

**Semester VI - Practical VIII****EL-602P PROJECT WORK**

- Students in a group, not exceeding **THREE**, should design, fabricate and assemble **ONE** Electronic project in their respective colleges. The department faculty is required to guide the project work.
- Each student should prepare a report and submit the report at the time of the practical examination duly certified by the concerned faculty guide & HOD.
- Department faculty shall ensure that the entire project work is carried out in their respective colleges by utilising the practical classes assigned to practical VIII. A seminar on the project work is compulsory.

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# **BANGALORE UNIVERSITY**

## ***REGULATIONS, SCHEME AND SYLLABUS***

*For the course*

I to VI Semesters

### ***BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))***

**(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)**

**Revised w.e.f.**

**Academic Year 2014-2015 and onwards**



**Regulations, Scheme of study and Examination for B Sc Degree Course  
Under Choice Based Credit System - Semester System (Y2K14 SCHEME)  
(Revised w.e.f. 2014 -2015)**

R1.

- a) Title of the course: **B. Sc in Computer Science**
- b) Duration of the Course: Durations of the undergraduate programmes shall extend over FOUR semesters (TWO academic years) for the Associate Degree(Advance Diploma), SIX semesters (Three academic years) for the regular Bachelor Degree.
- c) Scheme of study:
  - i) There shall be one theory paper and one practical from first semester to fourth semester. The practical paper corresponds to theory papers.
  - ii) There shall be two theory papers and two practical during fifth and sixth semesters.
  - iii) Medium of Instruction: The medium of instruction shall be English.
- d) Scheme of Examination: At the end of each semester there shall be University examination of three hours duration in each of the theory and practical papers.

**The question paper pattern for theory paper has two sections. (70 Marks)**

**Section –A** contains 12 questions, students has to attend 10 questions. Each carries 2 Marks  
(10 \* 2 = 20)

**Section – B** contains 8 questions (question may contain sub questions), students has to attend 5 questions. each carries 10 Marks  
(5 \* 10 = 50)

R2. Each semester shall be of 90 working days from the date of commencement of the each Semester.

R3. Attendance: As per Bangalore University regulations in force for science degree courses.

R4. POWER TO REMOVE DIFFICULTIES

If any difficulty arises in giving effect to the provisions of these regulations, the Vice – Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty. Every order made under this rule shall be subject to ratification by the appropriate University Authorities.



**Title of Papers, Scheme of Study and Examination for B Sc in Computer Science,  
Revised w.e.f. 2014–2015.**

Sem	Paper	Title of the paper	Hours/ Week	Marks			Credits
				IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
II	CS2T	Data Structures	4	30	70	150	3
	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
IV	CS4T	Operating System and UNIX	4	30	70	150	3
	CS4P	UNIX Programming Lab	3	15	35		
V	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35		
	CS5T2	Visual Programming	3	30	70	150	3
	CS5P2	Visual Programming Lab	3	15	35		
VI	CS6T1	Web Programming	3	30	70	150	6
	CS6P1	Web Programming Lab	3	15	35		
	CS6T2	Computer Networks	3	30	70	150	
	CS6P2	Project Lab	3	15	35		

**I Sem B Sc**  
**CS1T: PROGRAMMING CONCEPTS USING C**

Total Teaching Hours : 60

No of Hours / Week : 04

**Unit-I**

Introduction to Programming Concepts: Software, Classification of Software, Modular Programming, Structured Programming, Algorithms and Flowcharts with examples. Overview of C Language: History of C, Character set, C tokens, Identifiers, Keywords, Data types, Variables, Constants, Symbolic Constants , Operators in C, Hierarchy of Operators, Expressions, Type Conversions and Library Functions.

[ 12 Hours ]

**Unit-II**

Managing Input and Output Operation: Formatted and Unformatted I/O Functions  
Decision making, branching and looping: Decision Making Statements - if Statement, if-else statement, nesting of if-else statements, else-if ladder, switch statement, ?: operator, Looping - while, do-while, for loop, Nested loop, break, continue, and goto statements.  
Functions: Function Definition, prototyping, types of functions, passing arguments to functions, Nested Functions, Recursive functions.

[ 12 Hours ]

**Unit-III**

Arrays: Declaring and Initializing, One Dimensional Arrays, Two Dimensional Arrays, Multi Dimensional Arrays - Passing arrays to functions. Strings: Declaring and Initializing strings, Operations on strings, Arrays of strings, passing strings to functions. Storage Classes - Automatic, External, Static and Register Variables.

[ 12 Hours ]

**Unit-IV**

Structures - Declaring and Initializing, Nested structure, Array of Structure, Passing structures to functions, Unions, typedef, enum, Bit fields. Pointers – Declarations, Pointer arithmetic, Pointers and functions, Call by value, Call by reference, Pointers and Arrays, Arrays of Pointers, Pointers and Structures. Meaning of static and dynamic memory allocation, Memory allocation functions.

[ 12 Hours ]

**Unit-V**

Files - File modes, File functions, and File operations, Text and Binary files, Command Line arguments. C Preprocessor directives, Macros – Definition, types of Macros, Creating and implementing user defined header files.

[ 12 Hours ]

**TEXT BOOKS**

1. E. Balaguruswamy, "Programming In ANSI C", 4th edition, TMH Publications, 2007
2. Ashok N. Kamthane, "Programming with ANSI and Turbo C", Pearson Education, 2006

**REFERENCES BOOKS**

1. Ashok N. Kamthane et. al., "Computer Programming and IT", Pearson Education, 2011
2. Mahapatra, "Thinking In C ", PHI Publications, 1998.
3. Yashwant Kanetkar, "Let Us C", 13<sup>th</sup> Edition, PHP, 2013.

## CS1P: C PROGRAMMING LAB

### PART – A

- 1) Write a C program to accept employee number, employee name, basic pay and calculate gross salary, deduction and find the net salary of an employee for the following details.

Dearness Allowance	40% of Basic Pay
House Rent Allowance	20% of Basic Pay
Provident Fund	12% of Basic Pay
Income Tax	4% of Basic Pay

- 2) Write a C Program to find the roots of the given quadratic equation using if-else if statement.
- 3) Write a menu driven C program to find ,  
(i) Reverse of a number (ii) Factorial of N (Use Switch case)
- 4) Write a C program to find  $\sin(x)$ . [  $x - x^3/3! + x^5/5! - \dots - x^n/n!$  ]
- 5) Write a C program to arrange the given set of numbers in ascending and descending order.
- 6) Write a C program to find product of two N x M matrices.
- 7) Write a C program to calculate  $NCR = N! / R! * (N-R)!$  Using function.
- 8) Write a C program to display Fibonacci series using recursive function.
- 9) Write a C program to compare two strings using pointers.
- 10) Write a C program to demonstrate the user defined header file.

### PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:
- |                          |                   |
|--------------------------|-------------------|
| Writing two programs     | - 10 Marks        |
| Execution of one program | - 10 Marks        |
| Formatting the Output    | - 05 Marks        |
| Viva                     | - 05 Marks        |
| Record                   | - 05 Marks        |
| <b>Total</b>             | <b>- 35 Marks</b> |

## II Sem B Sc

### CS2T: DATA STRUCTURES

Total Teaching Hours : 60

No of Hours / Week : 04

#### Unit-I

Introduction and Overview: Definition, Elementary data organization, Data Structures, data structures operations, Abstract data types, algorithms complexity, time-space tradeoff. Preliminaries: Mathematical notations and functions, Algorithmic notations, control structures, Complexity of algorithms, asymptotic notations for complexity of algorithms. String Processing: Definition, Storing Strings, String as ADT, String

operations, word/text processing, Pattern Matching algorithms.

[ 12 Hours ]

### **Unit-II**

Arrays: Definition, Linear arrays, arrays as ADT, Representation of Linear Arrays in Memory, Traversing Linear arrays, Inserting and deleting, Sorting: Bubble sort, Insertion sort, Selection sort, Searching: Linear Search, Binary search, Multidimensional arrays, Matrices and Sparse matrices.

[ 12 Hours ]

### **Unit-III**

Linked list: Definition, Representation of Singly linked list in memory, Traversing a Singly linked list, Searching a Singly linked list, Memory allocation, Garbage collection, Insertion into a singly linked list, Deletion from a singly linked list; Doubly linked list, Header linked list, Circular linked list.

[ 12 Hours ]

### **Unit-IV**

Stacks – Definition, Array representation of stacks, Linked representation of stacks, Stack as ADT, Arithmetic Expressions: Polish Notation, Application of Stacks, Recursion, Towers of Hanoi, Implementation of recursive procedures by stack. Queues – Definition, Array representation of queue, Linked list representation of queues Types of queue: Simple queue, Circular queue, Double ended queue , Priority queue, Operations on Queues, Applications of queues.

[ 12 Hours ]

### **Unit-V**

Graphs: Graph theory terminology, Sequential representation of Graphs: Adjacency matrix, traversing a Graph. Tree – Definitions, Binary trees, Representing binary trees in memory, Traversing binary trees

[ 12 Hours ]

### **TEXT BOOKS**

1. Seymour Lipschutz: Data Structures with C, Schaum's *Outlines*, Tata McGraw-Hill, 2011.

### **REFERENCES BOOKS**

1. Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Second Edition, Pearson Education, 2013.
2. Robert Kruse, C.L.Tondo, Bruce Leung, Shashi Mogalla, "Data Structures and Program Design using C", Pearson Education, 2009.
3. Forouzan, "A Structured Programming Approach using C", 2<sup>nd</sup> Edition, Cengage Learning India, 2008.

## **CS2P : DATA STRUCTURES USING C LAB**

### **PART - A**

1. Write a menu driven C program to perform the following string operations without using string functions: (i) String Length (ii) String Concatenation (ii) String Reverse
2. Write a C program to search for an element in an array using Binary search
3. Write a C program to sort a list of N elements using Bubble Sort Algorithm
4. Write a C program to demonstrate the working of stack using an array.
5. Write a C program for Towers of Hanoi problem.
6. Write a C program to find GCD of two numbers using recursion

7. Write a C program to convert and print a given valid fully parenthesized infix arithmetic expression to post fix expression, the expression consists of single character (letter or digit) as operands and +,-,\*, / as operators, assume that only binary operators are allowed in the expression.
8. Write a C program to simulate the working of Circular Queue using an array.
9. Write a C program to construct a singly linked list and perform following operations
  - a. LINSERT Inserting a node in the front of the list
  - b. LDELETE Deleting the node based on value
  - c. LSEARCH Searching a node based on value
  - d. LDISPLAY Displaying all the nodes in the list
10. Write a C program to create and traverse a binary search tree.

### **PART – B**

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

### **III Sem B Sc**

## **CS3T: DATABASE MANAGEMENT SYSTEM AND SOFTWARE ENGINEERING**

Total Teaching Hours: 60

No of Hours / Week : 04

### **1. DATA BASE MANAGEMENT SYSTEM**

#### **Unit - I**

Introduction: Data, Database, DBMS, Characteristics of Database Approach, Database Users, Advantages of DBMS. Database System Concepts and Architecture: Data Models, Schemas, and Instances, DBMS Architecture and Data Independence, Database languages and interfaces, The Database system Environment, Classification of Database Management Systems. Data Modeling Using the Entity-Relationship Model: High level Conceptual Data Models for Database Design with an example, Entity types, Entity sets, Attributes, and Keys, ER Model Concepts, Notation for ER Diagrams, Proper naming of Schema Constructs.

[ 12 hours ]

#### **Unit - II**

RDBMS: Relational database concepts – attribute, tuple, types of attributes – single, multi-valued, stored, derived etc., keys – primary, index, candidate, alternate, foreign, Relationships, Relational algebra operations– UNION, INTERSECTION,

DIFFERENCE, CARTESIAN PRODUCT, SELECTION, PROJECTION, JOIN, DIVISION, relational calculus, Domain, Domain integrity, Integrity rules – Entity integrity, referential integrity, Normalization and its properties, I, II and III Normal forms.

[ 12 hours ]

### **Unit - III**

DDL and DML in SQL: DDL commands - create table/views/index, drop, alter, DML commands – select, insert, delete, update, etc., DCL commands – grant, revoke, commit, TCL commands, SQL – query, sub-query, nested query, Joins – natural, inner, outer join, aggregate functions in SQL. PL / SQL: Introduction, Exceptions & Cursor Management, Database Triggers, Functions,

[ 12 hours ]

## **2. SOFTWARE ENGINEERING**

### **Unit - IV**

Software and Software Engineering: Defining Software, Software Application Domains, Software Engineering, Software Process, Software Engineering Practice, Software Myths. Process Models: A Generic Process Model, Process Assessment and Improvement, Prescriptive Process Models, Specialized Process Models, Agile Development: Agility, Agility and the cost of change, Agile Process, Extreme Programming, Other Agile Process Models. Understanding Requirements: Requirements Engineering, Establishing the Groundwork, Eliciting Requirements, Developing the use cases, Building the Requirements Model, Negotiating Requirements, Validating Requirements.

[ 12 Hours ]

### **Unit - V**

Requirements Modeling: Requirements Analysis, Scenario-Based Modeling, UML Models that Supplement the Use Case, Data Modeling Concepts, Class-Based Modeling, Flow-Oriented Modeling, Creating a Behavioral Model, Design Concepts: The Design Process, Design Concepts, The Design Model, Architectural Design, Component-Level Design, User Interface Design, Pattern-Based Design, Quality Concepts: Software Quality, Review Techniques, Software Quality Assurance Software Testing Strategies: A Strategic Approach to Software Testing, Strategic Issues, Test Strategies for Conventional Software, System Testing, The Art of Debugging, Software Testing Fundamentals, White box Testing, Block-Box Testing.

[ 12 hours ]

### **Text Books**

1. Ramez Elmasri and Shamkant B. Navathe, “Fundamentals of Database Systems”, 5<sup>th</sup> Edition, Pearson Education, 2007.
2. Roger S. Pressman – Software Engineering, A Practitioner’s approach, 7<sup>th</sup> Edition, McGRAW-HILL Publication, 2010.

### **Reference Books**

1. Pankaj Jalote, “An integrated approach to Software Engineering”, 3<sup>rd</sup> Edition, Narosa Publishing House, 2013.
2. Abrahamsi. Silberschatz, Henry. F. Korth, S. Sudarshan, “Database System Concepts” 6<sup>th</sup> Edition, McGraw Hill, 2012.
3. C.J.Date, “Introduction to database systems”, Eight Edition, Addison Wesley, 2003.
4. Ian Sommerville – Software Engineering, 9<sup>th</sup> Edition, Pearson Education Ltd, 2010.

**CS3P : DATA BASE MANAGEMENT SYSTEM LAB  
PART - A**

1. The STUDENT detail databases has a table with the following attributes. The primary keys are underlined. STUDENT(regno: int, name: string, dob: date, marks: int)

- i) Create the above table.
- ii) Remove the existing attributes from the table.
- iii) Change the date type of regno from integer to string.
- iv) Add a new attribute phoneno to the existing table.
- v) Enter five tuples into the table.
- vi) Display all the tuples in student table.

2. A LIBRARY database has a table with the following attributes.

LIBRARY(bookid:int, title:string, author:string, publication:string, yearpub:int, price:real)

- i) Create the above table.
- ii) Enter the five tuples into the table
- iii) Display all the tuples in student table.
- iv) Display the different publishers from the list.
- v) Arrange the tuples in the alphabetical order of the book titles.
- vi) List the details of all the books whose price ranges between Rs. 100 and Rs. 300

3. The SALARY database of an organization has a table with the following attributes.

EMPSALARY(empcod:int, empnamee:string, dob:date, department:string, salary:real)

- i) Create the above table.
- ii) Enter the five tuples into the table
- iii) Display all the number of employees working in each dapartment.
- iv) Find the sum of the salaries of all employees.
- v) Find the sum and average of the salaries of employees of a particular department.
- vi) Find the least and highest salaries that an employee draws.

4. Consider the insurance database given below. The primary keys are underlined and the data types are specified.

PERSON(driver-id-no: string, name: string, address:strong)

CAR(regno: string, model: string, year: int)

ACCIDENT(report-no: int, date: date, location: String)

OWNS(driver-id-no: string, regno: string)

PARTICIPATED(driver-id-no: string, regno: string, report-no: int, damage-amount: int)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) Demonstrate how you
  - a) Update the damage amount for the car with a specific regno in the accident with report no 12 to 25000.
  - b) Add a new accident to the database.
- iv) Find total number of people who owned cars that were involved in accidents in 2002
- v) Find the number of accidents in which cars belonging to a specific model were involved

5. Consider the following database of students enrollment in courses and books adopted for each course.

STUDENT(regno: string, name: string, major: strong, bdate: date)

COURSE(course-no: int cname: string, dept: string)

ENROLL(reg-no: string, course-no: int, sem: int, marks: int)

BOOK-ADOPTION(course-no: int, sem: int, book-isbn: int)

TEXT(book-isbn: int, book-title: string, publisher: string, author: string)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) Demonstrate how you add a new text book to the database and make this book be adopted by some department.
- iv) Produce a list of text books (include Course-no, book-isbn, book-title) in the alphabetical order for courses offered by the 'Compute Science' department that use more than two books.
- v) List any department that has all its adopted books published by a specific publisher.

6. The following tables are maintained by a book dealer

AUTHOR(author-id: int, name: string, city: string, country: string)

PUBLISHER(publisher-id: int name: string, city: string, country: string)

CATLOG(book-id: int, title : string, author-id: int, publisher-id: int, category: int, year: int, price: int)

CATEGORY(category-id: int, description: string)

ORDER-DETAILS(order-no: int, book-id: int, quantity: int)

- i) Create above tables by properly specifying the primary keys and the foreign keys.
- ii) Enter atleast five tuples for each relation.



- iii) Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2010.
  - iv) Find the author of the book which has maximum sales.
  - v) Demonstrate how to increase price of books published by specific publisher by 10%
7. Consider the following database for BANK.

BRANCH(branch-name: string, branch-city: string, assets: real)

ACCOUNT(accno: int, banch-name: string, balance: real)

DEPOSITOR(customer-name: string, accno: int)

CUSTOMER(customer-name: string, customer-street: string, customer-city: string)

LOAN(loan-no: int, branch-name: string, amount: real)

ORROWER(customer-name: string, loan-no: int)

- i) Create the above tables by properly specifying the primary keys and foreign keys.
- ii) Enter atleast five tuples for each relation.
- iii) Find all the customers who have atleast two accounts at the main branch.
- iv) Find all customer who have an account at all the branches located in a specific city.
- v) Demonstrate how to delete all account tuples at every branch located in specific city.

8. Consider the following database for ORDER PROCEESING.

CUSTOMER(cust-no: int, cname: string, city: string)

ORDER(orderno: int, odate: date, ord-amt: real)

ORDER\_ITEM(orderno: int, itemno:int, qty: int)

ITEM(itemno: int, unitprice: real)

SHIPMENT(orderno: int, warehouseno: int, ship-date: date)

WAREHOUSE(warehouseno: int, city: string)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) List the order number and ship date for all orders shipped from particular warehouse.
- iv) Produce a listing: customer name, no of orders, average order amount
- v) List the orders that were not shipped within 30 days of ordering

### **PART – B**

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note :

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 8 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:
 

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

#### **IV SEM B Sc**

#### **CS4T1: OPERATING SYSTEM AND UNIX**

Total Teaching Hours : 60

No of Hours / Week : 04

##### **Unit-I**

Introduction: Definition, Types of Operating Systems, Functions of Operating System, services, system components System call. Process Management: Process Concept, Process Scheduling, Inter process communication, CPU Scheduling Criteria, Scheduling algorithm, Multiple Processor Scheduling, Real time Scheduling, Algorithm evolution.

[ 12 Hours ]

##### **Unit – II**

Process Synchronization and deadlocks: The Critical Section Problem, Synchronization hardware, Semaphores, Classical problems of synchronization, Critical regions, monitors, Dead locks – system model, Characterization, Dead lock prevention, avoidance and detection, Recovery from dead lock, Combined approach to deadlock handling.

[ 12 Hours ]

##### **Unit - III**

Memory management: Functions, single contiguous, Partitioned memory management: multiple relocatable partitioned memory management, paging segmentation, demand paging virtual memory management. File Management: Concept, access methods, directory structures, allocation methods, free space management, secondary storage structure. Disk Management: Disk Structure & Scheduling methods, Disk management, Swap – Space management.

[ 12 Hours ]

##### **Unit-IV**

History of Unix, salient features, Unix Components, types of shell, Internal and External commands, Files and File Organization- Categories of files, Unix file system, directories, file related commands, Directory related commands, wild cards, Printing and Comparing files. Ownership of files, File attributes File permissions and Manipulations, Standard I/O, Redirection, pipe, filter.

[ 12 Hours ]

##### **Unit-V**

Introduction to vi editor, The three modes of the vi editor, Invoking vi editor, Configuring the vi environment, Regular expressions, the grep command, The process - parent and child process, process creation, process related commands, Shell Programming - shell script features, shell variables, writing and executing a shell script, positional parameters, Branching control structures- if, case etc., Loop control structures

– while, until, for, etc., Jumping control structures – break, continue, exit, etc., Integer and Real arithmetic in shell programs, Debugging scripts.

[12 Hours]

### TEXT BOOKS

1. Abraham Silberschatz and Peter Baer Galvin, “Operating System Concepts”, 7<sup>th</sup> Edition, Pearson Education, 2002.
2. M.G.Venkateshmurthy, “Introduction to UNIX & SHELL Programming”, First Edition, Pearson Education, 2004.

### REFERENCE BOOKS

1. Forouzan, “Unix and Shell Programming”, 1<sup>st</sup> Edition, 2008 Cengage Learning India
2. H.M.Deitel, “Operating Systems”, Pearson Learning Solutions, 3<sup>rd</sup> Edition, 2003.
3. William Stallings, “Operating Systems”, 6<sup>th</sup> Edition, Pearson Education, 2010.

### CS4P1: Shell Programming in Unix Lab

#### PART - A

1. Write a menu driven program to calculate (i) Simple interest (ii) Compound interest
2. To print all prime numbers between m and n ( $m < n$ ).
3. Reverse a given number and check whether it is palindrome or not.
4. Shell script to find maximum and minimum of given set
5. To count the number of vowels in a given string.
6. Create a file containing the following fields: student No., student name, age, sex, height and weight. Print all the details in a neat format.
7. Write a C program to generate and print the GCD and LCM of two integers.
8. Shell script to take two numbers as arguments and output their sum using (i) bc (ii) expr. Include error checking to test whether two arguments were entered.
9. Find out the occurrences of three consecutive and identical word characters (like aaa or bbb) using (i) grep and (ii) sed.
10. Shell script to display all the file permissions.

#### PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 (5 Marks each)
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

#### V Sem B Sc

### CS5T1: VISUAL PROGRAMMING

Total Teaching Hours: 52

No of Hours / Week : 03

#### Unit - I

Introduction to Visual Programming: The integrated Development Environment – menu bar, tool bar, from designer, project explorer, properties window, from layout window,

The VB editor. The form object: Properties, events and methods of forms; Properties – Name, Caption, Backcolor, Borderstyle, controlbox, maxbutton, minbutton, moveable, startup position, height, width, left, top, scalemode, window, state; Events –load, unload, Click, Activate, Deactivate, Resize, methods – Show, hide, cls, Unload, print, Controls – Properties and events of different controls such as command buttons, labels, textboxes, image controls, timer, horizontal and vertical scroll bars, option buttons, check boxes, frames, lists and combo boxes. Predefined Dialog Boxes – MsgBox and InputBox

[ 13 Hours ]

### **Unit - II**

Programming: Data types, variables; declaration and scope arithmetic operations, Study of form and code modules, private and public procedures, Main procedure, Sub and Functions. Mathematical and string Functions; Branching and Looping Statement; If – Then, if –Then –Else and Nested If Statements; Select Case –different forms; For – Next, While – Wend and Do – Loops statements; Arrays- declaration. Static and dynamic arrays. Array Function, menus and toolbars-Creating menus and toolbars, Working with the menu editor, Designing Multiple Document interface forms. Microsoft common controls.

[ 13 Hours ]

### **Unit - III**

OOP methods and properties of an object, class Modules, Encapsulation and Inheritance characteristics Dynamic Link Libraries (DLLs) and Windows API; Designing Help files; File handling – Sequential, Random access and Binary files, Database connectivity – DAO and ADO Tables and Queries, ActiveX Data objects.

[ 13 Hours ]

### **Unit – IV**

Visual C++ Programming: Objects-Classes-VC++Components – Resources-Event Handling – Menus – Dialog Boxes – Importing VBX Controls – Files – MFC File Handling – Document View Architecture – Serialization. Interfacing Other Applications – Multiple Document Interface (MDI) – Splitter Windows – Exception Handling – Debugging – Object Linking and Embedding (OLE) – Database Application – DLL- ODBC.

[ 13 Hours ]

### **Text Books:**

1. Gurumit Singh, “Visual Basic 6”, First Edition, Firewall Media, 2007.

### **Reference Books:**

1. Charles Petzold, “Windows Programming”, 5<sup>th</sup> Edition, Microsoft Press, 1999.
2. Steve Holzner, “Visual C++ Programming”, Second Edition, PHI, 1994.
3. Go ttfried, “Programming with Visual Basic 6”, PHI, 2000.

### **CS5P1 : Visual Programming Lab**

#### **PART - A**

1. Write a VB Program to design a simple calculator to perform addition, subtraction, multiplication and division(Use functions for the calculations).
2. Design a User Interface (UI) to accept the student details such as name, department and total marks. Validate the input data and calculate the percentage and division.
3. Design a VB application which has MDI and Child forms. Create a menu having the items such as file (New, Open),Format (Font, Regular, Bold, Italic) and Exit in the MDI form. Also create a text box and use a Common Dialog Box control for changing the font, fore color and back color of the text box.

4. VB program to Encrypt and Decrypt a string. (Use Rnd() to generate the Encryption and Decryption keys).
5. Design a small Alarm Clock Application.
6. Write a VB Program to Validate the username and password form the database and display the appropriate message.(Use Data Control)
7. Design a VB application to record the employee details such as EmpId, EmpName, Designation and BaiscPay. Calculate the DA, HRA, Deduction and Gross Salary.(Make the necessary assumptions )Use Select .. case for decision making.
8. VB program to calculate the simple interest and compound interest. Use DLLs for the calculation.
9. VC++ program to create a Dialog box and display the position of mouse pointer within the dialog box.
10. VC++ program to create and load a simple menu in a Window.

### **PART – B**

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.

c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

### **CS5T2: OBJECT ORIENTED PROGRAMMING USING JAVA**

Total Teaching Hours : 52

No of Hours / Week : 03

#### **Unit - I**

Introduction to JAVA: JAVA Evolution: Java History, Java Features, How Java Differs from C and C++, Java and Internet, Java and World Wide Web, Web Browsers, Hardware and Software Requirements, Java Support Systems, Java Environment. Overview of JAVA Language: Introduction, Simple Java program, More of Java Statements, Implementing a Java Program, Java Virtual Machine, Command Line Arguments, Programming Style. Constants, Variables, and Data Types: Introduction, Constants, Variables, Data Types, Declaration of Variables, Giving Values to Variables, Scope of Variables, Symbolic Constants, Type Casting, Getting Values of Variables, Standard Default Values, Operators and Expressions: Introduction, Arithmetic Operators, Relational Operators Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bitwise Operators, Special Operators, Arithmetic Expressions, Evaluation of Expressions, Precedence of Arithmetic Operators, Type Conversion and Associativity, Mathematical Functions. Decision Making and Branching: Introduction, Decision Making with if Statement, Simple if Statement, The if.....else Statement, Nesting of if..else Statements, The else if Ladder, The Switch Statement, The ? : Operator. Decision Making and Looping: Introduction. The while

Statement, The do Statement, The for Statement, Jumps in Loops Labeled Loops.

[ 13 hours ]

### **Unit -II**

Classes, Arrays, Strings, Vectors and Interfaces: Classes, Objects and Methods: Introduction, Defining a Class, Adding Variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors, Methods Overloading, Static Members, Nesting of Methods, Inheritance: Extending a Class Overriding Methods, Final Variables and Methods, Finalizer methods, Abstract Methods and Classes, Visibility Control. Arrays, Strings and Vectors: Arrays, One-dimensional Arrays, Creating an Array, Two - Dimensional Arrays, Creating an Array, Two – dimensional Arrays, Strings, Vectors, Wrapper Classes. Interfaces: Multiple Inheritance: Introduction, Defining Interfaces, Extending Interfaces, Implementing Interfaces, Accessing Interface Variables.

[ 13 Hours ]

### **Unit - III**

Packages, and Multithreaded Programming:

Packages: Putting Classes together: Introduction, Java API Packages, Using System Packages, Naming Conventions, Creating Packages, Accessing a Package, Using a Package, Adding a Class to a Package, Hiding Classes. Multithreaded Programming: Introduction, Creating Threads, Extending the Thread Class, Stopping and Blocking a thread, Life Cycle of a thread, Using Thread Methods, Thread Exceptions, Thread Priority, Synchronization, Implementing the 'Runnable' Interface. Managing Errors and Exceptions: Introduction, Types of Exception Handling Code, Multiple Catch Statements, Using Finally Statement, Throwing Our Own Exceptions, Using Exceptions for Debugging.

[ 13 Hours ]

### **Unit - IV**

Applet Programming, Graphics Programming, Input/Output:: Introduction, How Applets Differ from Applications, Preparing to Write Applets, Building Applet Code, Applet Life Cycle, Creating an Executable applet, Designing a Web Page, Applet Tag, Adding Applet to HTML File, running the Applet, More About HTML Tags, Displaying Numerical Values, Getting Input from the User. Graphics Programming: Introduction, The Graphics Class, Lines and rectangles, circles, and Ellipses, Drawing Arcs, Drawing Polygons, Lines Graphs, Using Control Loops in Applets, Drawing Bar Charts. Managing Input/Output Files in JAVA: Introduction, Concept of Streams, Stream Classes, Byte Stream Classes, Character Stream Classes, Using Streams, Other Useful I/O Classes, Using the File Class, Input / Output Exceptions, Creation of Files, Reading / Writing Characters, Reading / Writing Bytes, Handling Primitive Data Types, Concatenating and Buffering Files, Interactive Input and output, Other Stream Classes.

[ 13 Hours ]

#### **Text Books:**

1. A.Balaguruswamy, "Programming with JAVA", A Primer, TMH, 1999.

#### **Reference Books:**

1. Thomas Boutel, "CGI programming in C and Perl", Addison – Wesley, 1996.
2. Jefry Dwight et al, Using CGI, Second Edition, Prentice Hall, India, 1997.
3. Patrick Naughton & Herbert Schildt, JAVA 2: The Complete Reference, THM, 1999.
4. Schildt, "JAVA The Complete Reference", 7<sup>th</sup> Edition.

## CS5P2: JAVA PROGRAMMING LAB

### PART - A

1. Write a program to find factorial of list of number reading input as command line argument.
2. Write a program to display all prime numbers between two limits.
3. Write a program to sort list of elements in ascending and descending order and show the exception handling.
4. Write a program to implement all string operations.
5. Write a program to find area of geometrical figures using method.
6. Write a program to implement constructor overloading by passing different number of parameter of different types.
7. Write a program to create student report using applet, read the input using text boxes and display the o/p using buttons.
8. Write a program to calculate bonus for different departments using method overriding.
9. Write a program to implement thread, applets and graphics by implementing animation of moving ball.
10. Write a program to implement mouse events and keyboard events.

### PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

## VI Sem B Sc

### CS6T1: WEB PROGRAMMING

Total Teaching Hours : 52

No of Hours / Week : 03

#### Unit - I

Fundamentals of Web: Internet, WWW, Web Browsers, and Web Servers, URLs, MIME, HTTP, Security, The Web Programmers Toolbox. XHTML: Origins and evolution of HTML and XHTML, Basic syntax, Standard XHTML document structure, Basic text markup, Images, Hypertext Links, Lists, Tables, Forms, Frames, Syntactic differences between HTML and XHTML.

[ 13 Hours]

#### Unit - II

Java Script: Overview of JavaScript; Object orientation and JavaScript; General syntactic characteristics; Primitives, Operations, and expressions; Screen output and keyboard input; Control statements; Object creation and Modification; Arrays;

Functions; Constructor; Pattern matching using expressions; Errors in scripts; Examples.  
[ 13 Hours]

### **Unit - III**

Java Script and HTML Documents, Dynamic Documents with JavaScript, The JavaScript execution environment; The Document Object Model; Element access in JavaScript; Events and event handling; Handling events from the Body elements, Button elements, Text box and Password elements; The DOM 2 event model; The navigator object; DOM tree traversal and modification. Introduction to dynamic documents; Positioning elements; Moving elements; Element visibility; Changing colors and fonts; Dynamic content; Stacking elements; Locating the mouse cursor; Reacting to a mouse click; Slow movement of elements; Dragging and dropping elements.

[ 13 Hours]

### **Unit - IV**

CSS: Introduction, Levels of style sheets, Style specification formats, Selector forms, Property value forms, Font properties, List properties, Color, Alignment of text, The Box model, Background images, The <span> and <div> tags, Conflict resolution. XML: Introduction; Syntax; Document structure; Document Type definitions; Namespaces; XML schemas; Displaying raw XML documents; Displaying XML documents with CSS; XSLT style sheets; XML Processors; Web services.

[ 13 Hours]

### **Text Books**

1. Robert W Sebesta, "Programming the World Wide Web", 4<sup>th</sup> Edition, Pearson Education, 2008.

### **Reference Books**

1. M.Deitel, P.J.Deitel, A.B.Goldberg, "Internet & World Wide Web How to program", 3<sup>rd</sup> Edition, Pearson Education / PHI, 2004.
2. Chris Bates, "Web Programming Building Internet Applications", 3<sup>rd</sup> Edition, Wiley India, 2006.
3. Xue Bai et al, "The Web Warrior Guide to Web Programming", Thomson, 2003.
4. Sklar, "The Web Warrior Guide to Web Design Technologies", 1<sup>st</sup> Edition, Cengage Learning India.

### **CS5P2: WEB PROGRAMMING LAB**

#### **PART - A**

1. Create a form having number of elements (Textboxes, Radio buttons, Checkboxes, and so on). Write JavaScript code to count the number of elements in a form
2. Create a HTML form that has number of Textboxes. When the form runs in the Browser fill the textboxes with data. Write JavaScript code that verifies that all textboxes has been filled. If a textboxes has been left empty, popup an alert indicating which textbox has been left empty.
3. Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.
4. Create a page with dynamic effects. Write the code to include layers and basic animation.
5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined function)
6. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
7. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.



8. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
9. Create a form consists of a two Multiple choice lists and one single choice list
  - a) The first multiple choice list, displays the Major dishes available.
  - b) The second multiple choice list, displays the Starters available.
  - c) The single choice list, displays the Soft drinks available.
10. Create a web page using two image files, which switch between one another as the mouse pointer moves over the image. Use the on Mouse Over and on Mouse Out event handlers.

### **PART – B**

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note:

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:
 

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
<b>Total</b>	<b>- 35 Marks</b>

### **CS6T2 : COMPUTER NETWORKS**

Total Teaching Hours : 52

No of Hours / Week : 03

#### **Unit - I**

Introduction: Growth of computer networking, Complexity in network system, Motivation and Tools: Resource sharing, Growth of the internet, probing the internet, interpreting the ping response, tracing a route. Transmission Media: Copper wires, glass fibers, radio, satellite, Geosynchronous satellites, low earth orbit satellites, Low earth orbit satellite arrays, Microwave, Infrared, Light from a laser. Local Asynchronous Communications: Introduction, the need for asynchronous communications, using electric current to send bits, standards for communication, baud rate, Framing and errors, Half and Full duplex asynchronous communication, the effect of noise on communication. Long distance Communication: Sending signals across long distances, Modem hardware used for Modulations and Demodulation, Leased analog data circuits, optical, radio frequency and dialup Modems, carrier frequencies and Multiplexing, baseband and broadband technologies, wave length division multiplexing, spread spectrum, time division multiplexing [ 13 hours ]

#### **Unit - II**

Packets, Frames and Error Detection: Concept of Packets, packets and Time-division Multiplexing, Packets and Hardware Frames, byte Stuffing, transmission errors, Parity bits and Parity checking, error detection, Detecting errors with checksums, detecting errors with CRC, Burst errors, frame formats and error detection mechanism. LAN Technologies and Network Topologies: Direct point-to-point communications, Shared Communications channels, LAN Topologies, Ethernet, Carries sense on CSMA,

Collision Detection and Backoff with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. [ 13 hours ]

### **Unit - III**

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software. [ 13 hours ]

### **Unit - IV**

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [ 13 hours ]

#### **Text Books:**

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5<sup>th</sup> edition, Pearson Education, 2013.

#### **Reference Books:**

1. Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2<sup>nd</sup> Edition.

### **CS6P2: PROJECT LAB**

**Total Practical hours / week: 03 hours**

**Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.**

**Scheme of Evaluation is as follows:**

<b>Project Demo</b>	<b>- 15 Marks</b>
<b>Project VIVA</b>	<b>- 15 Marks</b>
<b>Project Report</b>	<b>- 5 Marks</b>
<b>Total</b>	<b>- 35 Marks</b>

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BANGALORE UNIVERSITY  
DEPARTMENT OF ENGLISH

Ph.No.080-22961631

*Ch*

Dr.Chitra Panikkar  
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Date.24.7.2014

Approval by PG, BOS Members

Internal Members

- |  |   |             |                          |
|--|---|-------------|--------------------------|
| 1. Dr.Chitra Panikkar, Chairperson,<br>Department of English,<br>Bangalore University, Bangalore-560056. | - | Chairperson | <i>Chitra Panikkar</i>   |
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| 5. Dr.M.Shobha, Assistant Professor<br>Department of English, BUB  | - | Member      | <i>Shobha</i>            |
| 6. Dr.Sindhu.J, Assistant Professor<br>Department of English, BUB  | - | Member      | <i>Sindhu J</i>          |
| 7. Dr.B.N.Shreekeerthy, Assistant Professor<br>Department of English, BUB                                | - | Member      | <i>B.N. Shreekeerthy</i> |

External Members

- |  |   |  |
|--|---|--|
| 1. Prof.Kishori Nayak,<br>Department of English,<br>Mangalore University<br>Mangala Gangotri<br>Mangalore-574 193<br>Ph.No. 9342035991 | - | External Member<br>(approved by circulation) |
| 2. Prof. C.P.Ravichandra<br>Department of English<br>Mysore University<br>Manasagangotri.<br>Mysore-570 006<br>Ph.No.9886601202        | - | External Member<br>(approved by circulation) |

Thank you.

Yours sincerely;

*Chitra Panikkar*

CHITRA PANIKKAR  
DEPARTMENT OF ENGLISH  
BANGALORE UNIVERSITY  
BANGALORE-560 056  
Ph.No. 080-22961631

**Proceedings of the PG BOS in English (by circulation), approved on 24.7.2014**

The PG Board of Studies, Department of English approved of the PG syllabus document (conceived to suit the CBCS Scheme) which will come into effect from August 2014. Details of Course Patterns and Schemes of Examinations pertaining to the PG syllabus are a part of the ensuing document. Through a series of consultations and informal meetings over the institution of the new scheme, the PG BOS of English has arrived at the structure to be adopted for the 4-semester M.A. English Course. The overall syllabus structure, the syllabus details of each paper with the relevant Question Paper pattern, and the Internal Assessment break-up are shown in the attached document. Each unit has been fixed in consultation with the BOS members (internal and external), and has been endorsed by the external members, Prof.Kishori Nayak (Mangalore University) and Prof.Ravichandra (Mysore University). Panels of 3 Ph.D. candidates (Ms.Khalida Anjum, (Supervisor: Dr.Geetha Bhasker), Mr. Mahmoud Saberi, (Supervisor: Dr.K.S.Vaishali) and Ms.Shalin Varghese, (Supervisor: Dr.Chitra Panikkar) were approved by the BOS members by circulation. A large portion of the syllabus-document is part of the relatively new and updated syllabus which was instituted in 2010-'11. The new units that have come into being now are the Open Elective Papers and the Soft Core Papers . The BOS resolved that the III Semester Open Elective Courses, "Write it Right" and "Popular Literature" would be offered alternately; the Board also decided to offer the Soft Core Papers, "American Literature" and "World Literatures in English" alternately. It was also proposed that the Open Elective intake could be limited to 70.

*Chitra Panikkar*  
**CHAIRPERSON**  
**DEPARTMENT OF ENGLISH**  
**JNANABHARATHI**  
**BANGALORE UNIVERSITY**  
**BANGALORE-560 066**

APPENDIX "A"

DETAILS OF COURSE PATTERNS AND SCHEMES OF EXAMINATIONS

T – Theory, P - Practicals

I FACULTY OF ARTS

1. Economics, English, French, German, Hindi, History, Japanese, Kannada, Philosophy, Political Science, Rural Development and Management, Sanskrit, Sociology, Spanish, Telugu, Urdu and Women's Studies.

Subject	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I Semester of the Postgraduate Program or VII Semester of the Honours program</b>							
Core subject	6T	6x1	6x3	6x30	6x70	6x100	6x1
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Semester Total of Credits							26
<b>b) II Semester of the Postgraduate Program or VIII Semester of the Honours Program</b>							
Core subject	5T	5x4	5x3	5x30	5x70	5x100	5x4
	Project Work*	8	Report Evaluation	1x30	1x70	1x100	1x4
Soft Core	1T	1x3	1x3	1x30	1x70	1x100	1x2
Semester Total of Credits							26
<b>c) III Semester of the PG Program or</b>							
Core Subject	5T	5x1	5x3	5x30	5x70	5x100	5x1
Open Elective	1T	1x4	1x3	1x30	1x70	1x100	1x4
Semester Total of Credits							24
<b>c) IV Semester of the PG Program</b>							
Core subject & Electives	5T	5x1	5x3	5x30	5x70	5x100	5x1
	Project Work*	8	Report Evaluation	1x30	1x70	1x100	1x4
Semester Total of Credits							24
Program Grand Total of Credits							100

\* An elective or a special paper in the subject may be offered in lieu of the project work.

**COURSE PATTERN, SCHEME OF EXAMINATION AND CREDITS  
POST-GRADUATE M.A. ENGLISH SEMESTER SCHEME, 2014-'15**  
CBCS Scheme

Subject PG. M.A. ENGLISH	Papers	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>I SEMESTER</b>							
<b>Core Papers</b>							
Paper- I (i)	British Literature- Part-I	4	3	30	70	100	4
Paper- I (ii)	Literary Criticism & Critical Reading-Part-I	4	3	30	70	100	4
Paper-I (iii)	Gender Studies- Part-I	4	3	30	70	100	4
Paper-I (iv)	Indian Literatures in English-Part-I	4	3	30	70	100	4
Paper-I (v)	Communicative English-Part-I	4	3	30	70	100	4
Paper-I (vi)	European Classics Revisited-Part-I	4	3	30	70	100	4
Paper-I (vii) (Soft core)	American Literature/World Literatures in English-Part-I	3	3	30	70	100	2
<b>II SEMESTER</b>							
<b>Core Papers</b>							
Paper- II (i)	British Literature-Part- II	4	3	30	70	100	4
Paper- II (ii)	Literary Criticism & Critical Reading-Part-II	4	3	30	70	100	4
Paper-II (iii)	Gender Studies- Part-II	4	3	30	70	100	4
Paper-II (iv)	Indian Literatures in English-Part-II	4	3	30	70	100	4
Paper-II (v)	Communicative	4	3	30	70	100	4

	English-Part-II						
Paper-II (vi)	European Classics Revisited-Part-II	4	3	30	70	100	4
Paper-II(vii) (Soft core)	American Literature/World Literatures in English-Part-II	3	3	30	70	100	2
III SEMESTER							
Core Papers							
Paper- III (i)	Critical Theory-Part-I	4	3	30	70	100	4
Paper- III (ii)	Postcolonial Studies-Part-I	4	3	30	70	100	4
Paper-III (iii)	Literary and Cultural Studies-Part-I	4	3	30	70	100	4
Paper-III (iv)	Modern Linguistics-Part-I	4	3	30	70	100	4
Paper-III (v)	Teaching of English Language and Literature-Part-I	4	3	30	70	100	4
Paper-III (vi)	Popular Literature/Write it Right (Open Elective)	4	3	30	70	100	4
IV SEMESTER							
Core Papers							
Paper- IV (i)	Critical Theory-Part-II	4	3	30	70	100	4
Paper- IV (ii)	Postcolonial Studies-Part-II	4	3	30	70	100	4
Paper-IV (iii)	Literary and Cultural Studies-Part-II	4	3	30	70	100	4
Paper-IV (iv)	Modern Linguistics-Part-II	4	3	30	70	100	4
Paper-IV (v)	Teaching of English Language and Literature-Part-II	4	3	30	70	100	4
Paper-IV (vi)	Project Work	8	Report	30	70	100	4

28. *Explorations in the Functions of Language*-M.A.K. Halliday.

29. *Second Language Pedagogy*-N.S.Prabhu.

30. *Focus on the Language Classroom*-Allwright D.& K. Bailey.

31. *Language and Power*-Fairclough, Norman.

Journals:

1. English Worldwide

2. World Englishes

3. Online e-journals

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### **Paper IV (vi): PROJECT WORK**

Each tutorial group will be assigned to a faculty member in the Department who will be the Project Instructor for that group. Topics will be assigned to the students by the Project Instructor, and the project will be submitted to the Department in the form of a short dissertation. The Project Evaluation will be carried out by the internal examiner and one external Examiner like in all other papers.

#### **Internal Assessment**

The break-up of Internal Assessment marks (30) for all papers will be in the order of

Attendance – 5 marks

Short presentation – 5 marks

Tests/Assignments –  $10 \times 2 = 20$  marks





**BANGALORE UNIVERSITY**  
**DEPARTMENT OF COMMUNICATION**  
**MS COMMUNICATION**  
**SYLLABUS CHOICE BASED CREDIT SYSTEM**  
**ACADEMIC YEAR 2014-15**



**BANGALORE UNIVERSITY**  
**Department of Communication**

Central College Campus, P.K.Block, Palace Road, Bangalore – 560 009  
Phone: 080 – 22961994(off.) 944 87 88866/email: [drhkmswamy@gmail.com](mailto:drhkmswamy@gmail.com)

**Dr. H.K. MARISWAMY**

**4/7/2014**

**CHAIRMAN**

Proceedings of the Board of Studies meeting held on 4/07/2014, in the Department of Communication, P.K Block Bangalore University, Bangalore. Ref: **Aca-II/BOSPer./Sci.2014-15**

Members Present:

**Members Present**

- |                          |          |      |
|--------------------------|----------|------|
| 1. Dr. H. K .Mariswamy   | Chairman | Sd/- |
| 2. Dr. Jagadeesh Prakash | Member   | Sd/- |
| 3. Dr. B.K. Ravi         | Member   | Sd/- |
| 4. Dr. N Sanjeevaraja    | Member   | Sd/- |
| 5. Dr. B Shailashree     | Member   | Sd/- |

**External member**

- |  |      |
|--|------|
| 1. Dr. B.P. Mahesh Chandra Guru, Professor, University of Mysore | Sd/- |
| 2. Dr D. S . Poornananda, Professor, Kuvempu University          | Sd/- |
| 3. D.V. Rajashekar, Senior Journalist, Bangalore.                | Sd/- |

The Chairman welcomed the members to the meeting. Then the Board took up the agenda for discussion. The meeting of BOS (Board of studies) in Communication was held on July 4, 2014 in the Department of Communication. The resolutions are as follows:

- 1. Revising PG syllabus of Choice Based Credit System**  
The Board of Studies thoroughly perused the PG syllabus and revised it according to the needs of the media, society as CBCS regulations.
- 2. Modifications in the regulations of MS Communication:** According to Choice based Credit system the Regulations of MS Communication is revised.

# BANGALORE UNIVERSITY

## DEPARTMENT OF COMMUNICATION (FACULTY OF SCIENCE)

### RULES AND REGULATIONS FOR TWO-YEAR M.S COMMUNICATION PROGRAMME UNDER SEMESTER SCHEME WITH EFFECT FROM-2014

#### **General Objectives of the Programme**

The Mass Media scenario in the World in general and in India in particular has seen revolutionary changes over the years. Technology, Political, Socio and Economic changes have contributed for this transformation of mass media in India. Media education in India will have to measure up to these changes. Its curricula will have to reflect the changing environment and be able to prepare the students to take on the new challenges. Keeping all these developments in mind, the course has been re-structured with the following broad objectives.

1. To train the students to suit the requirements of the media organizations and the society.
2. To train the students in changing skills of news gathering and editing.
3. To prepare the students in related areas such as Technical Writing, Corporate Communication and Event Management.
4. To introduce the emerging Communication technologies.
5. To prepare students for communication research and teaching.
6. To prepare students to become socially conscious.

#### **I. Eligibility for Admission**

- a. The Department shall admit a maximum of 40 students out of which 30 seats shall be for Journalism Graduates and another 10 seats shall be reserved for Non-Journalism Graduates in addition to **six** seats to be filled up under payment quota as decided by the University and approximately 07 supernumerary seats subject to the following conditions.
- b. **Journalism Candidates:** Candidates who have passed the bachelor's degree with 50 percent of marks in the aggregate of all the examinations of the degree in the **optional subjects** of Journalism shall be eligible for admission with 50% of marks.
- c. **Non-Journalism Graduates:** Candidates who have passed the bachelor's degree examination of Bangalore University or any other University recognized as equivalent to 50 percent of marks in the aggregate of all the subjects including the languages are eligible as per the Bangalore University rules. The preference in admission will be given to those students who have passed degree examination at the First attempt in case of Non-Journalism students.
- d. In case of SC/ST, Cat I categories of students the minimum percentage of marks required shall be 10 percent less and as per the admission rules of Bangalore University.
- e. While admitting students under supernumerary quota, preference will be given to students who have studied Journalism as an Optional Paper at Under Graduate level.

#### **II. Admission Procedure**

Admission to the M.S Communication course shall be made in order of merit of the candidates subject

to the statutory provisions of the reservations based on the following criteria.

- a. Half of the percentage of average of marks obtained by the candidate in all the examinations of 3 years bachelor's degree course **including languages will be considered for Non-Journalism graduates** (50 percent of marks).
- b. For journalism graduates only half of the percentage of marks obtained by the candidate in the optional subjects of Journalism in the entire 3 years bachelor's degree course (50 percent of marks).
- c. An applicant who is a full time employee or student studying in another course simultaneously shall not be eligible for admission.
- d. Any candidate found to have given false information at the time of admission regarding eligibility shall forfeit the admission even after getting selected and admitted to the course.

### **III. Duration of the course**

The course of study for the MS Communication degree shall be of two academic years comprising of four semesters. The course commencement, programme, Examination, Scheme of Instruction, Terms and vacations shall be as prescribed by the University from time to time.

### **IV. Course of Study and Scheme of Instructions**

M.S.Communication – Subject Study & Scheme of Examination

Sem/ Code	Paper Title	Week/ hour	Duration of Examination	IA Marks	Exam Marks	Total	Credits
<b>First Semester</b>							
CS:1.1	Introduction to Communication	04	3hrs	30	70	100	04
CS:1.2	News Writing and Report Analysis	04	3hrs	30	70	100	04
CS:1.3	News Processing and Editing	04	3hrs	30	70	100	04
CS:1.4	Media Laws & Ethics	04	3hrs	30	70	100	04
CS:1.5	Media Management	04	3hrs	30	70	100	04
SC:01	Communication Skills	04	3hrs	30	70	100	04
1.6 a	Practical News Writing and Reporting Analysis	02	-	15	35	50	01
<i>Submission of Practical Record</i>							
1.6 b	News Processing and Editing	02	-	15	35	50	01
<i>Submission of Practical Record</i>							
Total Credit							26
<b>C.S: CORE SUBJECT SC: SOFT CORE</b>							
<b>Second Semester</b>							
CS:2.1	Communication Theories	04	3hrs	30	70	100	04
CS:2.2	Development Communication	04	3hrs	30	70	100	04
CS:2.3	Communication Research Methods	04	3hrs	30	70	100	04
CS:2.4	Radio Broadcasting	04	3hrs	30	70	100	04
CS:2.5	Business Communication	04	3hrs	30	70	100	04
<b>Soft core</b>							
SC:2.1	Environmental Communication	04	3hrs	30	70	100	04
2.6 a	practical Radio Broadcasting Practical	<i>Submission of Practical Record</i>		15	35	50	01
2.6 b	Lab Journal Production (JBS)			viva 15	35	50	01
Total Credit							26
<b>C.S: CORE SUBJECT SC: SOFT CORE</b>							
<b>Third Semester</b>							
CS:3.1	Corporate Communication	04	3hrs	30	70	100	04
CS:3.2	New Media Technology	04	3hrs	30	70	100	04
CS:3.3	Technical Writing	04	3hrs	30	70	100	04
CS:3.4	Television Broadcasting	04	3hrs	30	70	100	04
3.5 a	Practical Television Production	<i>Submission of Practical Record</i>		15	35	50	02
3.5 b	Lab Journal Production (JBS)			Viva 15	35	50	02
<b>Open Elective</b>							
OE:01	Media and Society	04	3hrs	30	70	100	04
Total Credit							24
<b>C.S: CORE SUBJECT SC: SOFT CORE OE: OPEN ELECTIVE</b>							
<b>Fourth Semester</b>							
CS:4.1	Political Communication	04	3hrs	30	70	100	04
CS:4.2	Marketing Communication	04	3hrs	30	70	100	04
CS:4.3	Film Studies	04	3hrs	30	70	100	04
CS:4.4	Writing for Media	04	3hrs	30	70	100	04
CS:4.5	Dissertation	08	-	Viva 50	100	150	04
<b>CS:4.6</b>	<b>Internship</b>	<b>2 Months</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50</b>	<b>04</b>
Total Credit							24
Programme Grand Total of Credits							100

## **V. Examination**

- a. There shall be a University examination at the end of each academic semester with a maximum of 70 marks per paper.
- b. Internal Assessment Marks: Each paper shall have 30 marks for internal assessment, consisting of two class test and assignment in the academic semester, each carrying 15 marks and in the case of paper CS1.2: News Writing and Reporting Analysis, CS 1.3: News Processing and Editing, CS 2.4 Radio Broadcasting, Paper 3.2 New media technology and Paper CS 3.4: Television Broadcasting, (**except these papers**) Students shall submit Practical records which consist of 30 marks and these Practical records shall be evaluated by External examiners. Internal marks consists of 30 marks programme as indicated under item No.IV, course of study and scheme of instruction.
  - **Candidate shall submit Practical records based on the following items.**
  - For 1.6: a News writing and Report analysis comprises of at least Writing five News stories, Two Features, Two Profiles, Two Interviews, Two Editorials.
  - For 1.6: b New processing and Editing comprises at least two News editing, (Five Headline/Caption writing, Two Article writing, Two Translations, One Page design
  - For 2.6: a Radio Broadcasting comprises at least Two Radio News Bulletins, Two Radio Talks, Two Radio Interview Scripts, Two Radio Feature Scripts, Two Radio Commercial Scripts, Two Scripts for Public Awareness Campaign.
  - 2.6 b Lab journal production
  - 3.5 a : Television Broadcasting Practical comprises at least Two Television script writing, Two Documentary script writing, Two Interviews, Two Television Commercials, Two Television News scripts.
  - 3.5 b Lab Journal production a compulsory component of MS communication course
- c. Submission of Practical records to respective teachers is compulsory:
- d. The internal assessment marks once awarded for any paper shall be retained and considered as final even if a student reappears for that theory paper in subsequent attempts.

## **VI. Attendance, Progress and Conduct**

- a. Students have to compulsorily attend the classes, seminars and other academic activities conducted during the academic year as prescribed by the Department.
- b. Students shall be considered to have completed the attendance requirements if they have attended not less than 75% of the classes conducted in each of the paper.
- c. Students who do not satisfy the attendance requirements will not be permitted to appear for University examinations.

## **VII. Minimum Requirement for Pass**

- a. Minimum for a pass in each Theory paper shall be 40% of the paper excluding Continuous evaluation (Internal Assessment) marks and 40% in the Practical paper marks excluding continuous evaluation (Internal Assessment) marks and 50% in the

aggregate of the Papers in each semester put together. There is no separate minimum for continuous evaluation (Internal Assessment).

- b. Those Candidates who fall short of 50 percent marks in aggregate even when they have secured 40 percent marks in all the papers and want to improve their results may select any paper/papers to appear once again to improve their semester performance within a period of one year.
- c. Those candidates could continue his/her studies in the next semester irrespective of number of papers in which he/she has passed in the previous semester exams, provided he/she has satisfied attendance requirements in the previous semester.

### **VIII. Practicals**

- a. Students of II and III semester of M.S Communication have to compulsorily contribute to the production of Lab-Journal, “Jnanabharathi Samachar” during II semester and III semester issues have to be brought out. Each teacher shall be the Editor with the Chairman of the Department as Editor –in-chief. Students shall submit Practical Journal to the incharge teachers concern. The incharge teacher shall forward the Journal to the Chairman for approval .
- b. The issue editor concerned will guide and supervise the work of students so as to bring out the Lab-Journal **within the deadline set by the Department.**
- c. All the students shall actively associate in publishing the Lab-Journal. It is mandatory on the part of each student to bring out Lab-Journal. Four students shall be in-charge of one issue.
- d. The degree shall not be awarded to those students who do not bring out the Lab-Journal as student Editors during their respective semesters. There shall be marks for Practical Journal “Jnanabharathi Samachar”. 35 marks consist for Production of Lab journal (JBS) and 15 marks consist for Viva Voce examination. The Viva Voce examination shall be conducted by External examiners. The marks for Production of Lab journal will be given by External examiner after evaluating the Lab Journal.

### **IX. Internship**

- a. Internship shall consist of 50 marks, and shall be evaluated by the concerned unit head of the media organization based on following criteria, same should be sent to the chairman of the department which is confidential.

Writing/Presenting ability	10marks
Commitment to work	10marks
Punctuality	10marks
Communication ability	10marks
Overall performance	10marks
<hr/>	
<b>Total</b>	<b>50 marks</b>

- b. All the students shall undergo an internship with a “major” Media Organisation Newspaper, Magazine, Radio, Television, Public relations organization either Government or Private owned for a period of not less than eight weeks, (uninterrupted) immediately after the completion M.S Communication fourth semester examination.

- b. The Students will be assigned for Internship to Media Organisation by the Chairman of the Department and his/her decision in the matter is final.
- c. At the completion of the Internship, the student shall produce a certificate of satisfactory attendance, interest and performance during the internship from the head of the organisation where he/she has undergone internship.
- d. Students who fail to produce the Internship completion certificate from their respective Organisation allotted to them will have to once again undergo the Internship.
- e. Unless the students successfully complete their Internship assignment and produce the completion certificate, the 4<sup>th</sup> semester of M.S Communication examination results will be with held.

#### **X. Dissertation**

- a. All students of M.S Communication programme shall be required to submit a dissertation at the end of M.S Communication, fourth semester and before the commencement of M.S Communication final examination. Unless the dissertation is submitted before the examination, the student shall not be allowed to take the final examination. The Dissertation shall be evaluated for 100 marks and followed by Viva Voce for 50 marks both evaluation and Viva Voce will be done by External examiners and Internal examiners.

#### **XI. Classification of successful candidates and declaration of results**

##### ***a. Successful candidates in the annual examination shall be classified as follows:***

**FIRST CLASS:** Those who obtain 60 percent and above of the aggregate marks in all the semester exams put together.

**SECOND CLASS:** Those who obtain 50 percent and above but less than 60 percent of the aggregate marks in all semester exams put together.

**THIRD CLASS:** Those who obtain 40 percent and above but less than 50 percent of the aggregate marks in all the semester exams put together.

##### ***b. Announcement of results, classes and Ranks for the programme***

- Ranks shall be declared in respect of the successful candidates taking their total performance in all the semester exams put together.
- Only those candidates who have passed each of the paper at the first appearance shall be eligible for the declaration of ranks. The first five ranks shall be notified.
- The results of the IV semester shall not be announced until the candidate has passed in all the papers of the previous semesters. The degree shall not be awarded unless the candidate has passed all the semester examinations.
- Candidate shall complete the M.S Communication degree examination within four academic years from the year of admission.

##### ***c. Question Paper format***

Every paper consists of 10 questions of equal marks with internal choice. Students have to answer any 7 questions. There shall be two questions from each of the five units in each paper.



**REGULATIONS PERTAINING TO MASTER OF FINANCE AND ACCOUNTING**  
**(M.F.A) COURSE UNDER CBC SYSTEM FROM 2014-15 ONWARDS**

**1. OBJECTIVE:**

The broad objective of the Master of Finance and Accounting course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

**2. Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/BBA/BBS Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%.

**3. Duration of the Course:**

The course of study for M.F.A, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

**4. Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

**5. Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

**6. Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

## 7. Registering for the Examination:

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

## 8. Scheme of Examination:

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.F.A	I & II	6+1	700	52 (26+26)

8.3 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.4 Each semester will normally have six papers and each shall be for 100 marks.

8.5 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 1/2 (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.6 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.7 (i) In case of theory papers the various components of internal assessment will be as follows:

i. Assignment – 5 Marks

ii. Attendance – 5 marks

iii. Internal Test – 20 Marks

(The test shall be for 1 1/2 hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
  - 1. Chairman BOS: Chairman
  - 2. One senior faculty member
  - 3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

#### **Question Paper Pattern:**

##### **Section – A:**

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

##### **Section – B:**

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

##### **Section – C:**

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

#### **9. Internship Training:**

Each student will select one business unit – a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

#### **10. Dissertation:**

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 70 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

## **11. Board of Examiners and Valuation of Answer Scripts:**

- 11.1 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 11.2 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.
- 11.3 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

## **12. Challenge Valuation:**

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

## **Classification of Successful candidates:**

Minimum for a pass in each paper shall be 40% (Semester paper in that/end paper no minimum for internal assessment) and 50% in aggregate of all the semester. However, minimum pass in each paper shall be 40% in semester end exam and 50% in aggregate of all papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha –

sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction	70% and above (A+, A++ or O)
First Class	60% and above but less than 70% (A)
High Second Class	55% and above but less than 60% (B+)
Second Class	50% and above but less than 55% (B)
Pass Class	40% and above but less than 50% (C)

**Eight Point Alpha – Sign Grading Scale:**

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	C	B	B+	A	A+	A++	O

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

**Computation of Grade Point Average (GPA):**

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

**ILLUSTRATION 1 (26 Credits)**

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : **496 / 700 = 70.86%**

Classification of Result : **First Class with Distinction**

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester,  $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: **A+**

**ILLUSTRATION 2 (24 Credits)**

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-

Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks:  $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits =  $186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

### **Calculation of Cumulative Grade Point Average (CGPA):**

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

#### **ILLUSTRATION I**

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks =  $2032 / 2600 = 78.15\%$

Classification of Result: ***First Class with Distinction***

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme =  $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

### **13. MINIMUM FOR A PASS:**

- 13.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- 13.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 13.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed)

Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

13.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.

13.5 There shall be no minimum in respect of internal assessment.

13.6 A Candidate who fails in any of the unit / project work / Project Report / dissertation / viva-voce shall reappear in that unit / project work / Project Report / dissertation / viva-voce and pass the examination subsequently.

**14. CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

**15. REJECTION OF RESULTS:**

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.

ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

**16. IMPROVEMENT OF RESULTS:**

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

#### **17. POWER TO REMOVE DIFFICULTIES**

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.



**M.F.A (MASTER OF FINANCE AND ACCOUNTING) - COURSE MATRIX**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
1.1	Accounting Conventions & Standards	4	3	30	70	100	<b>4</b>
1.2	Managing People in Organisations	4	3	30	70	100	<b>4</b>
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	<b>4</b>
1.4	Managerial Finance	4	3	30	70	100	<b>4</b>
1.5	QT for Accounting and Finance	4	3	30	70	100	<b>4</b>
1.6	Financial Markets and Services	4	3	30	70	100	<b>4</b>
1.7	<b>Soft Core</b> Business Legal Systems	3	3	30	70	100	<b>2</b>
<b>I SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
2.1	Contemporary Issues in Accounting	4	3	30	70	100	<b>4</b>
2.2	Information Technology for Accounting & Finance	4	3	30	70	100	<b>4</b>
2.3	Direct Taxes Planning	4	3	30	70	100	<b>4</b>
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	<b>4</b>
2.5	Strategic Cost and Management Accounting	4	3	30	70	100	<b>4</b>
2.6	Asset Liability Management In Banks	4	3	30	70	100	<b>4</b>
2.7	<b>Soft Core</b> Business Research Methods	3	3	30	70	100	<b>2</b>
<b>II SEMESTER TOTAL OF CREDITS</b>							<b>26</b>



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Council / College / Centre shall notify in the first week of each internal assessment, containing the details of tests, marks.

- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
  1. Chairman BOS: Chairman
  2. One senior faculty member
  3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

**Question Paper Pattern:**

**Section – A:**

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

**Section – B:**

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

**Section – C:**

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

**9. Internship Training:**

Each student will select one business unit of a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

**10. Dissertation:**

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 200 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.



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g system, alpha ó sign grade as described below shall be

First Class	70% and above (A+, A++ or O)
High Second Class	60% and above but less than 70% (A)
Second Class	55% and above but less than 60% (B+)
Pass Class	50% and above but less than 55% (B)
	40% and above but less than 50% (C)

**Eight Point Alpha – Sign Grading Scale:**

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	C	B	B+	A	A+	A++	O

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

**Computation of Grade Point Average (GPA):**

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

**ILLUSTRATION 1 (26 Credits)**

Papers	P1	P2	P3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = GP x C	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks :  $496 / 700 = 70.86\%$

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester,  $GPA = \text{Total GPW} / \text{Total Credits} = 182 / 26 = 7.0$

Semester Alpha Sign Grade: A+

**ILLUSTRATION 2 (24 Credits)**

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-



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4	4	4	4	4	4	24
6.8	29.2	31.2	30.4	33.6	35.2	186.4

Marks:  $466 / 600 = 77.67\%$

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits =  $186.4 / 24 = 7.77$

Semester Alpha Sign Grade: A++

**Calculation of Cumulative Grade Point Average (CGPA):**

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

**ILLUSTRATION I**

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	-
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks =  $2032 / 2600 = 78.15\%$

Classification of Result: **First Class with Distinction**

Cumulative Grade Point Average (CGPA)

= Total of Semester GPW / Total Credits for the programme =  $780.5 / 100 = 7.805$

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha sign grades assigned.

**13. MINIMUM FOR A PASS:**

- 13.1 A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practicalø / Project Work / Dissertation / Viva-Voce.
- 13.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 13.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.



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semester examinations in parts is eligible for only Class / but not for ranking.

respect of internal assessment.

13.6 A Candidate who fails in any of the unit / project work / Project Report / dissertation / viva-voce shall reappear in that unit / project work / Project Report / dissertation / viva-voce and pass the examination subsequently.

**14. CARRY OVER PROVISION:** Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

**15. REJECTION OF RESULTS:**

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.

ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.

iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.

iv. A candidate who rejects the result is eligible for only class and not for ranking.

**16. IMPROVEMENT OF RESULTS:**

i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.

ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.

iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.

iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.

v) A candidate who has appeared for improvement is eligible for class only and not for ranking.



be shown separately in the marks card. A candidate who, having failed, takes the examination again or who has retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

## **17. POWER TO REMOVE DIFFICULTIES**

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.



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APPENDIX "A"

**CE AND ACCOUNTING) - COURSE MATRIX**

**STER OF FINANCE AND ACCOUNTING)**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>I SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
1.1	Accounting Conventions & Standards	4	3	30	70	100	4
1.2	Managing People in Organisations	4	3	30	70	100	4
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	4
1.4	Managerial Finance	4	3	30	70	100	4
1.5	QT for Accounting and Finance	4	3	30	70	100	4
1.6	Financial Markets and Services	4	3	30	70	100	4
1.7	<b>Soft Core</b> Business Legal Systems	3	3	30	70	100	2
<b>I SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

**II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>II SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
2.1	Contemporary Issues in Accounting	4	3	30	70	100	4
2.2	Information Technology for Accounting & Finance	4	3	30	70	100	4
2.3	Corporate Tax Planning	4	3	30	70	100	4
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	4
2.5	Strategic Cost and Management Accounting	4	3	30	70	100	4
2.6	Asset Liability Management In Banks	4	3	30	70	100	4
2.7	<b>Soft Core</b> Business Research Methods	3	3	30	70	100	2
<b>II SEMESTER TOTAL OF CREDITS</b>							<b>26</b>



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**MASTER OF FINANCE AND ACCOUNTING)**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
<b>III SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Goods and Service Taxes	4	3	30	70	100	4
3.3	Forex and Derivatives	4	3	30	70	100	4
3.4	Insurance and Risk Management	4	3	30	70	100	4
3.5	Advanced E ó Business	4	3	30	70	100	4
3.6	<b>Open Elective</b>	4	3	30	70	100	4
<b>3.7</b>	<b>Internship Project Report</b>	--	--	--	50	50	2
<b>III SEMESTER TOTAL OF CREDITS</b>						<b>26</b>	

**IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)</b>							
4.1	Strategic Management	4	3	30	70	100	4
4.2	International Accounting	4	3	30	70	100	4
4.3	International Financial Management	4	3	30	70	100	4
4.4	Strategic Financial Management	4	3	30	70	100	4
4.5	<b>Dissertation</b>	18	--	Viva -Voce 50	200	250	10
<b>IV SEMESTER TOTAL OF CREDITS</b>						<b>26</b>	

**Open Elective**

- a. Income Tax
- b. Finance and Banking



**REGULATIONS PERTAINING TO MASTER OF COMMERCE (M.Com) COURSE UNDER  
CBC SYSTEM FROM 2014-15 ONWARDS**

**1. OBJECTIVE:**

The broad objective of the Master of Commerce course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

**2. Eligibility for Admission:**

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST students and blind students the minimum percentage of marks required shall be less by 5%

**3. Duration of the Course:**

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

**4. Scheme of Instruction:**

1. In each semester there will be seven papers (including practicals)
2. There will be 27 contact hours per week. This includes practicals.
3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

**5. Attendance:**

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

**6. Medium of Instruction:**

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

**7. Registering for the Examination:**

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

## 8. Scheme of Examination:

8.1 There shall be a University examination at the end of each semester.

8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.

8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).

ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 1 $\frac{1}{2}$  (one and half) hours.

iii. Practical records will be evaluated as part of the practical examination.

iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.

v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.

8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension - skills, articulation and application skills.

8.4 (i) In case of theory papers the various components of internal assessment will be as follows:

- a) Assignment – 5 Marks
- b) Attendance – 5 marks
- c) Internal Test – 20 Marks

(The test shall be for 1 $\frac{1}{2}$  hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

(ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.

(iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:

1. Chairman BOS: Chairman
2. One Senior Faculty Member
3. Two members from affiliated colleges as recommended by the BOS
4. For Information System and Computers Subject, A Viva-Voce and Practical Exam for 30 marks will be conducted by external examiners.

(iv) At least one week prior to the last working day, I.A. marks secured by the candidates shall be displayed on the notice board.

- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

### **8.5 Question Paper Pattern:**

#### **Section – A:**

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

#### **Section – B:**

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

#### **Section – C:**

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

### **8.6 Dissertation:**

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 70 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

## **9. Board of Examiners and Valuation of Answer Scripts:**

- 9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.
- 9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.
- 9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 9.4 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two

## 1.5 ADVANCED FINANCIAL MANAGEMENT

### **Objective:**

1. To impart the knowledge in advanced techniques of financial management.
2. To enable the students to apply the techniques in financial decision making.

### **MODULE – 1:**

Introduction – Finance Functions – Financing decisions – Capital structure theories – net income approach, Net operating income approach – The Traditional approach – Modigliani – Miller hypothesis – capital structure planning and policy – elements of capital structure EBIT – EPS approach, Valuation approach, cash flow approach.

### **MODULE – 2:**

Investment Decisions – Capital Budgeting decisions – Nature – type – Evaluation criteria – DCF – NPV – IRR – Reinvestment assumption and modified IRR – Varying opportunity cost of capital – Investment decision under inflation – Investment Analysis under inflation.

Complex investment decisions – projects unit, different project lives, investment timing and duration – Replacement of an existing asset – Investment decisions under capital rationing.

### **MODULE – 3:**

Risk Analysis in Capital Budgeting – Nature of Risk/statistical techniques for Risk analysis – Risk analysis in practice – sensitivity analysis – Scenario analysis simulation analysis - Decision trees for sequential investment decisions – utility theory and capital budgeting.

### **MODULE – 4:**

Corporate Restructuring – Mergers and Acquisitions, Corporate Restructuring – Valuation under M&A: DCF approach Financing a merger – significance of PE Ratio and EPS analysis – Accounting for M&As – Leveraged buyouts.

### **MODULE – 5:**

Derivatives for managing financial risk, Introduction – Derivatives & Risk hedging – Hedging instruments – Options, Futures, forwards & swaps – use of derivatives. A Survey of software packages for Financial Decisions making.

### **Books for Reference:**

1. Weston & Brigham, *Essentials of Managerial Finance*, The Dryden Press.
2. James Vanhorne, *Fundamentals of Financial Management*, Prentice Hall Inc.
3. John Hampton, *Financial Decision Making – concepts, problems & cases*, Prentice Hall of India.
4. Schall & Haley, *Financial Management*, McGraw Hill, New York.
5. Brealey & Myres, *Principles of Corporate Finance*, McGraw Hill, New York.
6. Prasanna Chandra, *Financial Management, Theory and Practice*, Tata McGraw Hill.
7. Khan & Jain, *Financial Management*, Tata McGraw Hill.
8. I.M. Pandey, *Financial Management*, Viaks Publishing House.
9. S.C. Kuchal, *Financial Management*, Chaitanya Publishers, Allahabad.
10. Chakraborty & others, *Financial Management and Control*, Mcmillan India Ltd.



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from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and n for 30 marks will be conducted by external examiners.

mark prior to the last working day, I.A. marks secured by the e displayed on the notice board.

(v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.

(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

### 8.5 Question Paper Pattern:

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#### Section – C:

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(3x12=36)

### 8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

### 9. Board of Examiners and Valuation of Answer Scripts:

9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.

9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.

9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external



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**OF COMMERCE) - COURSE MATRIX****M.Com (MASTER OF COMMERCE)**

		Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	<b>SOFT CORE</b> Communication Skills	3	3	30	70	100	2
<b>I SEMESTER TOTAL OF CREDITS</b>							<b>26</b>

**II SEMESTER M.Com (MASTER OF COMMERCE)**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
2.1	Indian Banking	4	3	30	70	100	4
2.2	Risk Management	4	3	30	70	100	4
2.3	Advanced E ó Commerce & Mobile Commerce	4	3	30	70	100	4
2.4	Business Research Methods	4	3	30	70	100	4
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4
2.6	Business Marketing	4	3	30	70	100	4
2.7	<b>SOFT CORE</b> Micro Finance	3	3	30	70	100	2
<b>II SEMESTER TOTAL OF CREDITS</b>							<b>26</b>



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**M.Com (MASTER OF COMMERCE)  
– I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Corporate Financial Reporting	4	3	30	70	100	4
3.3	Accounting for Managerial Decision	4	3	30	70	100	4
3.4	Strategic Cost Management ó I	4	3	30	70	100	4
3.5	Direct Taxes & Planning	4	3	30	70	100	4
3.6	<b>Open Elective</b>	4	3	30	70	100	4
<b>III SEMESTER TOTAL OF CREDITS</b>							<b>24</b>

**III SEMESTER M.Com (MASTER OF COMMERCE)  
ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	<b>Common Paper</b> Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	<b>Open Elective</b>	4	3	30	70	100	4
<b>III SEMESTER TOTAL OF CREDITS</b>							<b>24</b>

**III SEMESTER M.Com (MASTER OF COMMERCE)  
ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
3.1	<b>Common Paper</b> Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	<b>Open Elective</b>	4	3	30	70	100	4
<b>III SEMESTER TOTAL OF CREDITS</b>							<b>24</b>



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**M.Com (MASTER OF COMMERCE)**

**- I ACCOUNTING & TAXATION**

	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits	
			IA	Exam	Total		
	4	3	30	70	100	4	
4.2	Corporate reporting practices and Ind AS	4	3	30	70	100	4
4.3	Strategic Cost Management - II	4	3	30	70	100	4
4.4	Goods and Service Taxes	4	3	30	70	100	4
4.5	<b>Dissertation</b>	8	--	Viva - Voce 50	150	200	8
<b>IV SEMESTER TOTAL OF CREDITS</b>						<b>24</b>	

**IV SEMESTER M.Com (MASTER OF COMMERCE)**

**ELECTIVE – II FINANCE AND BANKING**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	<b>Common Paper</b> Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	<b>Dissertation</b>	8	--	Viva - Voce 50	150	200	8
<b>IV SEMESTER TOTAL OF CREDITS</b>						<b>24</b>	

**IV SEMESTER M.Com (MASTER OF COMMERCE)**

**ELECTIVE – III SYSTEM MANAGEMENT**

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
				IA	Exam	Total	
4.1	<b>Common Paper</b> Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	<b>Dissertation</b>	8	3	Viva - Voce 50	150	200	8
<b>IV SEMESTER TOTAL OF CREDITS</b>						<b>24</b>	

**OPEN ELECTIVE**

- a. Income Tax
- b. Finance and Banking

**ELECTIVE PAPERS:**

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- III. SYSTEM MANAGEMENT



## M.SC IN PSYCHOLOGY

Subjects	Paper	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
<b>a) I Semester of the Postgraduate Program</b>							
Core Subject	101 - Theoretical Perspectives of Psychology 102 - Cognitive Psychology 103 - Biopsychology 104 - Research Methods	4x4	4x3	4x30	4x70	4x100	4x4
	105 - Experimental Psychology (Practical 1) 106 - Computer Applications (Practical 2)	2x8	2x6	2x30	2x70	2x100	2x4
Soft Core	107 - Psychometry	1x3	1x3	1x30	1x70	1x100	1x2
<b>Semester Total of Credits</b>							<b>26</b>

<b>b) II Semester of the Postgraduate Program</b>							
Core Subject	201 – Personality Psychology 202 – Counselling and guidance 203 – Child Psychopathology 204 - Qualitative Research Methods	4x4	4x3	4x30	4x70	4x100	4x4
	205 - Child assessment and intervention. (Practical1)	1x8	1x6	1x30	1x70	1x100	1x4
	206 - Project Work (Practical 2)	8	Report Evaluation	1x30	1x70	1x100	1x4
Soft Core	207 – Theories of Learning	1x3	1x3	1x30	1x70	1x100	1x2
<b>Semester Total of Credits</b>							<b>26</b>

<b>c) III Semester of the PG Program</b>							
Core Subject	301 - Organizational Behavior I –A micro perspective. 302 – Psychopathology 303- Psychological Therapies	3x4	3x3	3x30	3x70	3x100	3x4
	305 - Clinical assessment and intervention.(Practical1) 306 - Assessment and Intervention in Organisations (Practical 2)	2x8	2x6	2x30	2x70	2x100	2x4
Open Elective	304 - Foundations and Application of psychology	1x4	1x3	1x30	1x70	1x100	1x4
<b>Semester Total of Credits</b>							<b>24</b>

<b>d) IV Semester of the PG Program</b>							
Core Subject and Electives	401 - Organizational behaviour II -A Macro perspective. 402 - Social and Community Psychology 403 - Rehabilitation Psychology 404 - Positive psychology	4x4	4x4	4x30	4x70	4x100	4x4
	405 - Alternative healing techniques. (Practical1)	1x8	1x6	1x30	1x70	1x100	1x4
	406 - Dissertation (Practical 2)	8	Report Evaluation	1x30	1x70	1x100	1x4
<b>Semester Total of Credits</b>							<b>24</b>
<b>Program Grand Total of Credits</b>							<b>100</b>

- Denzin, N. K., & Lincoln, Y. S. (2003). Introduction: The discipline and practice of qualitative research. In N.K.Denzin&Y.S.Lincoln (Eds.), *Strategies of Qualitative Inquiry*. Thousand oaks: Sage Publications.
- Frost, N. (2012). *Qualitative Research Methods in Psychology: Combining Core Approaches*. Middlesex: Open University Press.
- Glaser, B. G., & Strauss, A. L. (1967). *The Discovery of Grounded Theory*. Chicago: Aldine Publishing Company.
- King, G., Keohane, R., & Verba, S. (1994). *Designing Social Inquiry*. Princeton: Princeton university press.
- Miles, M.B & Huberman, A. M. (1994). *Qualitative Data Analysis* (2<sup>nd</sup> Ed). Sage Publications: Thousand Oaks.
- Pidgeon, N., & Henwood, K. L. (1996). Grounded theory: practical implication. In J. T. E. Richardson (Ed.), *Handbook of Qualitative Research Methods For Psychology and Social Sciences*. United Kingdom: The British Psychological Society.
- Silverman, D. (2001). *Interpreting Qualitative Data: Methods for Analysing Talk, Text, and Interaction* (2 ed.). London: Sage Publications.
- Travers, M. (2001). *Qualitative Research Through Case Studies*. London: Sage Publications.

### **PRACTICALS 205 : Child Assessment and Intervention.**

- Assessment of cognitive abilities
- Assessment of personality
- Screening and diagnostic tools
- Intervention strategies

### **PRACTICALS 206: Project Work.**

## **SOFT CORE PAPER**

### **207: THEORIES OF LEARNING**

**Learning objective:** Learning is essential for adjustment to one's life. Knowledge of principles and theories of learning for a psychologist is essential in bringing about desirable changes in his/her clients. Hence, this paper throws light on application of learning theories in the human context.

**Unit 1** – Nature of Learning Theories, Need for a theory, Variables, Laws of learning, Problems and issues, determinants of learning, applications of learning research.

**Unit 2** – S-R Theories: Pavlov, Guthrie, Thorndike, Harlow, Skinner, Current status of research and applications.



# BANGALORE UNIVERSITY

## SYLLABUS 2012-13

**BANGALORE UNIVERSITY**  
**DEPARTMENT OF PSYCHOLOGY**  
Jnanabharathi Campus, Bangalore - 560 056



cc: Head - P  
19/6

Recd on 18/6/13

## PRACTICALS FOR SEMESTER V- (Paper VI)

1. DBDA- 1 to 4
2. DBDA - 5 to 8
3. MRMT
4. Interest Inventory
5. Tweezer Dexterity

**Statistics :** 't' test.

**Project :** Interest inventory – college students – 18 – 21 years, 10 boys, 10 girls (should be related to the specialization taken).

## PRACTICALS FOR Semester VI (Paper VII)

1. Assessment of Guidance needs
2. Bell's Adjustment Inventory (200 questionnaire)
3. GHQ
4. IPAT Anxiety Scale
5. Team effectiveness scale – Dhar & Dhar.

**Statistics:** Median Test

**Project:** Norms & Validation of Stress Inventory

## PRACTICALS FOR Semester VI (Paper VIII)

1. Study of attitudes
2. RPM
3. Bhatia's Battery
4. GMA/ Test of General Intelligence of college students by Pall and Misra,
5. Emotional Maturity scale

**Statistics** – Chi-square.

**Project** – Team effectiveness scale – college students – sample size – 10 boys and 10 girls.

**BANGALORE UNIVERSITY**  
**COURSE STRUCTURE 2012-13 Scheme**  
**B.B.M. COURSE MATRIX**

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
<b>I</b>	1.1	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	1.2	LANGUAGE: ENGLISH	04	100
	1.3	Fundamentals of Accounting	04	100
	1.4	Business Organisation and Environment	04	100
	1.5	Quantitative Methods for Business - I	04	100
	1.6	Market Behaviour & Cost Analysis	04	100
	1.7	Management Process	04	100
<b>II</b>	2.1	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	2.2	LANGUAGE: ENGLISH	04	100
	2.3	Financial Accounting	04	100
	2.4	Quantitative Methods for Business - II	04	100
	2.5	Organizational Behavior	04	100
	2.6	Production and Operations Management	04	100
	2.7	Environmental Studies	04	100
<b>III</b>	3.1	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	3.2	Soft Skills for Business	04	100
	3.3	Corporate Accounting	04	100
	3.4	Human Resource Management	04	100
	3.5	Services Management	04	100
	3.6	Corporate Environment	04	100
	3.7	Computer Fundamentals	04	100
<b>IV</b>	4.1	<b>Language:</b> Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	4.2	Business Research Methods	04	100
	4.3	Marketing Management	04	100
	4.4	Financial Management	04	100
	4.5	Business Regulations	04	100
	4.6	Cost Accounting	04	100
	4.7	Indian Constitution	04	100
<b>V</b>	5.1	Entrepreneurial Management	04	100
	5.2	Computer Applications in Business	04	100
	5.3	Banking Regulations & operations	04	100
	5.4	Corporate Governance	04	100
	5.5	Management Accounting	04	100
	5.6	Elective - Paper -I	04	100
	5.7	Elective - Paper -II	04	100
<b>VI</b>	6.1	International Business	04	100
	6.2	E-Business	04	100
	6.3	Income Tax	04	100
	6.4	Strategic Management	04	100
	6.5	Elective - Paper-III	04	100
	6.6	Elective - Paper -IV	04	100
	6.7	Project Report & Viva-voce (75 marks + 25 marks)		100

**Title of Papers and Scheme of Study & Examination for BCA  
(Bachelor of Computer Applications) Revised w.e.f. 2008-2009**

Sem.	Paper	Title of the paper	Hrs/ Wk	Theory	Practical	CE	Total Marks
				Max. Marks	Max. Marks		
I	BCA101	Indian Language	4	90	-	10	100
	BCA102	English	4	90	-	10	100
	BCA103	Computer Fundamentals	4	90	-	10	100
	BCA104	Electronics	4	60	30	10	100
	BCA105	Programming Concepts Using C	4	60	30	10	100
II	BCA201	Indian Language	4	90	-	10	100
	BCA202	English	4	90	-	10	100
	BCA203	Mathematics	4	90	-	10	100
	BCA204	OOPS Using C++	4	60	30	10	100
	BCA205	Data Base Management Systems	4	60	30	10	100
III	BCA301	Indian Language	4	90	-	10	100
	BCA302	English	4	90	-	10	100
	BCA303	Indian Constitution	4	100	-	-	100
	BCA304	Operating Systems	4	90	-	10	100
	BCA305	Data Structures Using C	4	60	30	10	100
	BCA306	Numerical Analysis and Linear Programming	4	60	30	10	100
IV	BCA401	Indian Language	4	90	-	10	100
	BCA402	English	4	90	-	10	100
	BCA403	Environmental Studies	4	90	-	10	100
	BCA404	Data communications and Networks	4	90	-	10	100
	BCA405	Visual Programming	4	60	30	10	100
	BCA406	UNIX Programming	4	60	30	10	100
V	BCA501	Software Engineering	4	90	-	10	100
	BCA502	Computer Architecture	4	90	-	10	100
	BCA503	Banking and insurance	4	90	-	10	100
	BCA504	JAVA Programming	4	90	-	10	100
	BCA505	Project	4	60	30	10	100
	BCA506	Soft Skills & Personality Development Lab	4	-	90	10	100
VI	BCA601	Design & Analysis of Algorithms	4	90	-	10	100
	BCA602	Systems Programming	4	90	-	10	100
	BCA603	Computer Graphics	4	90	-	10	100
	BCA604	Web Programming	4	60	30	10	100
	BCA605	Project	8	-	180	20	200

- Note:**
- 1) The practical classes during the course of the semester shall be as in other science courses.
  - 2) Examination for Theory/Practicals shall be of three hours duration.
  - 3) In the evaluation of projects in fifth and sixth semesters, during the practical examination the demonstration of the project carries 50% of marks and viva-voce carries 40% of marks.
  - 4) The papers should be taught only by people who have specialization in the area.
  - 5) For theory papers the paper number may be suffixed with T and for practical papers with P, e.g., 604T and 604P.
  - 6) The question paper pattern and mode of evaluation to be as finalized earlier for I and II semester BCA. Any further requirement in the matter may be decided by the Chairman, BOS in consultation with BOS members.

- The first multiple choice list, displays the Major dishes available.
- The second multiple choice list, displays the Starters available.
- The single choice list, displays the Soft drinks available.

The selected items from all the lists should be captured and displayed in a Text Area along with their respective costs. On clicking the 'Total Cost' button, the total cost of all the selected items is calculated and displayed at the end in the Text Area. A 'Clear' button is provided to clear the Text Area.

11. Write a JavaScript code block, which checks the contents entered in a form's Text element. If the text entered is in the lower case, convert to upper case. Make use of function to Uppercase ( ).
12. Create a web page using two image files, which switch between one another as the mouse pointer moves over the images. Use the onMouseOver and onMouseOut event handlers.

### BCA605P -PROJECT

5786-BUP- 300- June 2011

**BANGALORE**



**UNIVERSITY**

**B.Sc., (COMPUTER SCIENCE)**

**DEGREE COURSE**

**UNDER - SEMESTER SYSTEM**

**(Y2K 12 SCHEME)**

**[REVISED w.e.f. 2012-'13]**

**JNANA BHARATHI**

***Psychological Counseling Building, Bangalore – 56***



**R7. Admission Procedure:**

- a) Through Counseling in respective colleges.
- b) Reservation: As per the notifications/Govt. orders from the University/Govt. from time to time.
- c) Tuition and other fees: As fixed by the University from time to time.

**R8.** The total number of students to be admitted to the course shall be as decided by the University.

**R9.** Results: Results of candidate shall be declared as per the procedure followed by the University for B.Sc. courses.

**R10. POWER TO REMOVE DIFFICULTIES**

1. If any difficulty arises in giving effect to the provisions of these regulations, the Vice – Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
2. Every order made under this rule shall be subject to ratification by the appropriate University Authorities.

**Title of Papers and Scheme of Study & Examination for B.Sc  
(Bachelor of Computer Science), Revised w.e.f. 2012– 2013**

Sem	Paper	Title of the paper	Hrs/ Wk	Theory	Practical	CE	Total Marks
				Max. Marks	Max. Marks		
I	CS1T	Problem Solving through C Programming	4	70	30	-	100
	CS1P	C Programming Lab	3				
II	CS2T	Logic Design and Unix Programming	4	70	30	-	100
	CS2P	UNIX Programming Lab	3				
III	CS3T	Data Structures and Algorithms	4	70	30	-	100
	CS3P	Data Structures Lab using C	3				
IV	CS4T	Software Engineering and Database System	4	70	30	-	100
	CS4P	Database System Lab	3				
V	CS5T1	Computer Graphics	3	70	30	-	100
	CS5P1	Computer Graphics Programming Lab	3				
	CS5T2	Web Programming	3				
	CS5P2	Web Programming Lab	3				
VI	CS6T1	Object Oriented Programming using JAVA	3	70	30	-	100
	CS6P1	Java Programming Lab	3				
	CS6T2	Computer Networks	3				
	CS6P2	Project	3				