



KARNATAKA STATE AKKAMAHADEVI WOMEN'S UNIVERSITY VIJAYAPUR

New syllabus of 'Computer Applications' Compulsory paper for all UG courses in III semester, w.e.f. academic year 2019-20 and onwards. (Approved in BoS dated 28-06-2019)

Compulsory paper for all UG degree courses in III semester

Computer Applications	
Teaching Hours: 4 Hrs/week	Marks: Main Exam: 80 IA: 20

UNIT I 12Hrs
Introduction: Computer, data processing, characteristic features of computers, computer evolution to present form, computer generation.
Basic computer organization: Basic operations performed by computers, basic organization of computer system, input units and its functions, output units and its functions.
Number systems: Binary number system, conversion from decimal to binary and binary to decimal: integer examples only (eg. converting 35 to binary and vice-versa).
Computer Codes: representation of data in binary, commonly used computer codes (BCD, EBCDIC, ASCII, Unicode - few examples of data representation).

UNIT II 10 Hrs
Processor and memory: Types of processors, main memory organization, random access memory, read only memory, cache memory.
Secondary storage: secondary storage devices and their needs, commonly used secondary storage devices, sequential and direct access storage devices, basic principles of commonly used secondary storage devices (magnetic disk, optical disk, flash drives, memory card, disk array).
IO devices: commonly used input output(IO) devices.

UNIT III 12 Hrs
Software: Types of softwares, system software, application software and users of computer systems.
Word Processing: Word processing concepts, saving, closing, Opening an existing document, Selecting text, Editing text, Finding and replacing text, printing documents, Creating and Printing Merged Documents, Character and Paragraph Formatting, Page Design and Layout.
Overview of operating system: Definition, functions of operating system, basics of Windows operating system- My Computer, Recycle Bin, Status Bar, Start and Menu & Menu-selection, Running an Application, Windows Explorer, Creating and Renaming of files and folders, Control Panels.

UNIT IV 08 Hrs
Overview of Networking: An introduction to computer networking, Network types (LAN, WAN, MAN), Network topologies, Modes of data transmission, Forms of data transmission, Transmission channels (media).
Fundamentals of Electronic Mail: Basic email facts, Email advantages and disadvantages, Email addresses, passwords, and user-ids.
Hypertext Markup Language, Web page creation- An example of HTML page.


1 | 'Computer Applications' compulsory paper syllabus


HOD,

Dept. of Computer Application,
Smt. A.S.M. College for Women,
BELLARY-583 103.


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Smt. Allum Sumangalamma Memorial
College For Women, BELLARY.


PRINCIPAL
Smt. ASM College
For Women, BALLARI.



UNIT V

10 Hrs

The Internet: What is the Internet?, Internet History, The Way the Internet Works.

The World Wide Web: The World Wide Web defined, commonly used web browsers.

Searching the World Wide Web: Directories, Search Engines, and Metasearch Engines, Search Fundamentals, Search Strategies, the Way a Search Engine Works.

Telnet and FTP: Telnet and Remote Login, File Transfer, Computer Viruses

References:

1. **P. K. Sinha and Priti Sinha, Computer Fundamentals, Sixth Edition, BPB publications. (Main)**
2. S. K. Basandra, Computers Today, Galgotia Publications.
3. Rajaraman V., Introduction to Information Technology, 2nd Edition, PHI
4. Xavier, C, Introduction to Computers and Basic Programming New age International,
5. Rajaraman, V., Adabala, Neeharika, Fundamentals of Computers, PHI
6. Raymond Greenlaw, Ellen Hepp, Inline/Online: Fundamentals of the Internet and the World Wide Web, 2/e, McGraw Hill Education;
7. Internet and world wide web programming, Dietil and Dietil, Nieto, Pearson Education
8. Sai Satish, Yash Patel, Srinivas Rao, Lokesh Reddy, Jai Sharma, Exploring Internet, Indian Servers
9. Gill, Nasib Singh, Essentials of Computer and Network Technology, Khanna Books Publishing Co., New Delhi
10. Norton, Peter, Introduction to Computers, McGraw-Hill



Theory Question Paper pattern

Time: 03 Hrs.

Exam. Marks: 80 I. A. Marks: 20

Instructions:

- 1 Answer any TEN Questions from PART-I
- 2) Answer any SIX Questions from PART-II
- 3) Answer any THREE Questions from PART-III

PART-I

Q.1 Answer any 10 of the following

(10 x 2=20)

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)
- 11)
- 12)

PART-II

Q.1 Answer any six the following:

(6 x 5=30)

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

PART-III

Q.3 Answer any THREE of the Following

(3 x 10 = 30)

- 1)
- 2)
- 3)
- 4)
- 5)

Note: each question may have sub questions a) and b)

3 | 'Computer Applications' compulsory paper syllabus

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PART-I

Q.1 Answer any 10 of the following

(10 x 2=20)

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)
- 11)
- 12)

PART-II

Q.1 Answer any six the following:

(6 x 5=30)

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

PART-III

Q.3 Answer any THREE of the Following

(3 x 10 = 30)

- 1)
- 2)
- 3)
- 4)
- 5)

Note: each question may have sub questions a) and b)

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AKKAMAHADEVI WOMEN'S UNIVERSITY, VIJAYAPURA.

B.A. (COMPUTER APPLICATION AS ONE OPTIONAL SUBJECT)

Syllabus for the Subject of Computer Applications


Title of papers & scheme of examinations for Computer Applications as one of the Optional subject in 3 subjects of equal importance under Semester Scheme at B.A. Degree course (w.e.f. academic year 2018-19& onwards).

Semester	Paper No.	Title of the Paper	No.of Teaching hrs. /week	Exam hrs. Theory/ Practical	Max. Marks	IA	Total
I	BACA-101	Computer Fundamentals, MS-Word & Presentation	4	3	60	10	70
		Computer Lab-1(Based on BACA-101)	2+2	3	20	10	30
II	BACA-102	Internet & WWW, e-mail, Network, Ms-Excel & Access	4	3	60	10	70
		Computer Lab-2(Based on BACA-102)	2+2	3	20	10	30

2


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Specific Elective Course in Computer Science:



Course Code: SEC - 1	Course Title: Digital Fluency
Course Credits: 02	Hour of Teaching/Week: 03 (1 hr./Teaching and 2 hrs./ Practical)
Total Contact Hours: 45	Formative Assessment Marks: 20
Exam Duration: 01.30 Hrs	Exam Marks: 30

Course Outcomes (COs):

After completing this course satisfactorily, a student will be able to:

- To perform and get knowledge about applications, virtual learning and internet fundamentals.
- Develop holistically by learning essential skills such as effective communication, problem-solving, design thinking, and teamwork.

Course Content:

Content	Hours
Unit – 1	
Fundamentals of computer and Operating System: Fundamentals of computer: An Overview of Computer, Functional Components of a computer (Working of each unit), Evolution and Generations of Computers, Classification of Computers, Applications of Computers. Operating System: Operating Systems, types of operating systems, major functions of the operating systems, types of user interface, examples of operating systems: MS-DOS, Windows, Mac OS, Linux, Solaris, Android.	05
Unit – 2	
Office Automation Tools, ICT and Security Aspects: Office automation tools and ICT: word processor, power point, and spread sheet, creating an email-ID, e-mail reading, saving, printing, forwarding and deleting the mails, checking the mails, viewing and running file attachments, addressing with cc and bcc, Google forms, working with Google Meet and Zoom Meet. Introduction to e-learning platforms such as Swayam and MOOC. Security Aspects: Threats and Prevention, Malware - virus, Worms, Ransomware, Trojan, Spyware, adware, key loggers, Modes of Malware distribution, Antivirus, HTTP vs HTTPS, Firewall, Cookies, Hackers and Crackers.	05
Unit – 3	
E-Commence, E- payment methods and Societal impacts: E-Commence: Basic Web Commerce Concept, The E-Commerce Environment, Electro Marketplace Technologies, B2B, B2C and C2C. E- payment methods: Cash Payment System, Credit Payment System, Types of Electronic Payment Systems: Credit Card • Debit Card • Smart Card • E-Money • Electronic Fund Transfer (EFT). Societal impacts: Digital Foot prints, Digital Society and Netizen, Data Protection, E-waste, Impact on Health.	05

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<p>➤ Laboratory Activities:</p> <ul style="list-style-type: none">• Identifying the configuration and version of a computer system (PC), laptop, and a mobile phone.• Create an email-ID and sending and editing with mail merge.• Creating a Google form and send it to Ten users.• Scheduling a virtual meet and invite peoples to join the Google meet and Zoom Meet.• Record the virtual Meet, chatting and sharing the documents or presentation on virtual meet.• Creating a hotspot from a mobile phone, and allowing others to use the hotspot.• Sign in and create account e-learning platforms such as Swayam and MOOC.• Creating a one-minute video of your choice in your native tongue, and upload the video to YouTube.• Creating and composing word document, creating tables, creating charts etc.• Preparing power point slides using transition and animations.• Simple computation using spread sheet.• Creating an account in the railway reservation website, IRCTC, and finding trains from Vijayapura to Bangalore.• Creating an account in Redbus.in and book bus tickets online.• Demo of online order placing for book using online e-payment methods.	30
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Note: Faculty of Computer Science shall teach the Digital Fluency paper

Text Books:

1. Fundamentals of computers - V. Rajaraman - Prentice- Hall of India.
2. Computer Fundamentals - P. K. Sinha Publisher: BPB Publications.

Reference Links:

- Operating Systems: https://ftms.edu.my/v2/wpcontent/uploads/2019/02/csca0101_ch06.pdf
- Gmail Creating links: <https://clubrunner.blob.core.windows.net/00000000961/en-ca/files/homepage/how-to-create-a-gmail-account/HowtoCreateaGmailAccount.pdf>
- Google Forms: https://pdst.ie/sites/default/files/Google%20Drive_1.pdf
- Google Meet: <https://edvance.hawaii.hawaii.edu/wp-content/uploads/Google-Meet-Tutorial-Getting-Started-and-Recording-a-Lecture.pdf>
- Zoom Meet: <https://assets.zoom.us/docs/user-guides/zoom-rooms-full-user-guide.pdf>
- Swayam: <https://www.aicte-india.org/bureaus/swayam>
- Security Aspects - <https://ncert.nic.in/textbook/pdf/lecs112.pdf>
- E-Commence: <http://www.aagasc.edu.in/cs/msecs/ECommerce%20Unit%201.pdf>
- E- payment methods: <http://www.dspmuranchi.ac.in/pdf/Blog/e%20business%20UnitIII.%20%202020.pdf>
- Societal impacts: <https://ncert.nic.in/textbook/pdf/leip106.pdf>



Continuous Assessment Scheme

- C1: Internal Assessment : 20 Marks

Semester End Examination(C2)

SEC – 1: Digital Fluency

Time: 01.30Hrs.

Max. Marks: 30

- 1) *Part- A: All questions are compulsory.*
- 2) *Part- B: Answer any FIVE questions.*

Part- A

1. Answer the following questions each carries ONE marks.

(1*5=5)

- a.
- b.
- c.
- d.
- f.

Part- B

2. (5)
3. (5)
4. (5)
5. (5)
6. (5)
7. (5)
8. (5)

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18BCA6.5	<u>WEB DESIGNING AND PROGRAMMING</u> <u>LAB</u>	
Teaching: 4Hrs/week	Total Teaching Hours : 52	Exam. Marks: 80 IA Marks : 20

1. Write a HTML code to demonstrate various formatting tags ordered and unordered list and table using frames suitably.
2. Write HTML Java script to display your CV in navigator your institute website department website and tutorial website for specific subject.
3. Develop and demonstrate a XHTML document that illustrate the use of external style sheet ordered list table borders padding color and the tag
4. Create a HTML form containing textboxes to enter name of student roll number course and grade obtained when the form runs in the browser fill the textboxes with data write JavaScript code that verifies that all textboxes have been filled. If a textbox has been left empty popup an alert indicating which textbox has been left empty
5. Develop and demonstrate a XHTML file that includes JavaScript script for receiving a number n as input and outputting first n Fibonacci numbers.
6. Write a JavaScript code to compute the sum of n natural numbers.
7. Create a HTML form containing textbox to enter text. 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 upper case
8. Design an XML document to store information about an employee viz, Name, Empld, job, department and position. Makeup sample data for 3 employees create a CSS style sheet and use it to display the document.
9. Create a XHTML form with name address line 1 address line, 2 and E-mail text fields. On submitting store the values in MySQL table retrieve and display the data based on name.
10. Write a small password checking script this will record the user name old password and new password the rules are that a password is OK if it is >7 characters long contain some upper case characters and Is different to the old password the admin user (username 'admin') can do whatever they like print out whether the new password is ok.
11. Write a php program to store current date-time in a COOKIE and display the last visited on date-time on the web page upon reopening of the same page.
12. Write a PHP program to store page views count in SESSION to increment the count on each refresh and to show the count on web page.
13. Using PHP and MySql develop a program to accept book information viz accession number, title, authors, edition and publisher from a web page and store the information in a data base and to search for a book with the title specified by the user and to display the search result with proper headings.
14. Mini project prepare your own E-commerce business site.

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18BCA6.6	PROJECT WORK	
Teaching: 4Hrs/week	Total Teaching Hours : 52	Exam. Marks: 80 IA Marks : 20

Project Dissertation Details:

- The Standard procedure for documenting the project work shall be followed. However, while writing is in progress, students should show each chapter to their guide for necessary feedback especially on technical content. Note that the quality of the dissertation is more important than its number of pages,
- The dissertation text(defined as everything except title page, table of contents, reference and appendices) should be around 50 A4 pages. The length(dissertation text together with appendices) of the dissertation should be less than 100 pages.
- The students are advised to follow these typing recommendations

Descriptions	Project Report
Dissertation text Times New Roman	12pt
Text in tables and code listing	11pt
Line Spacing(preface and main text)	1.5
Line spacing appendices	1.0
Left margin	37mm
Top/bottom/right margins	25mm
Chapter headings	24pt bold
Section headings	16pt
Sub section headings	14pt
Other headings	12pt bold
Tables headings font	11pt bold
Printing	Single sides of paper

Internal Assessment Evaluation

First Internal Assessment

Max: Marks: 10

Student shall present the details of the project work carried out that includes the following

- Synopsis contents
- Problem Identification and proposed solution
- SAD
- Data base design
- Functions

Power point slides shall be used by the students to present the work carried out

Second Internal Assessment

Max: Marks: 10

- Coding details


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